ORS 2023 Abstract Submission Disclosure Index, Including Late-Breaking

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Anderson, Chance ...................... Disclosed no conflict of interest.
Anderson, Christopher ................. Disclosed no conflict of interest.
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Anderson, Don ......................... Disclosed no conflict of interest.
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Ankersen, Jordan ........................ Disclosed no conflict of interest.
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Arciniaga, Luis ............................Disclosed no conflict of interest.
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Argentieri, Erin ............................Disclosed no conflict of interest.
Argentieri, Erin C. ..........................Disclosed no conflict of interest.
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Barbe, Mary F..........................Disclosed no conflict of interest.
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Bartolomei, Christopher...............Disclosed no conflict of interest.
Bartolozzi, Arthur.....................Disclosed no conflict of interest.
Barton, Kristen........................Disclosed no conflict of interest.
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Bates, Michael             Disclosed no conflict of interest.
Batko, Brian               Disclosed no conflict of interest.
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Bauer, Thomas W            Disclosed no conflict of interest.
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Bautista, Barry            Disclosed no conflict of interest.
Bautista, Catherine        Disclosed no conflict of interest.
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Bayer, Steve              Disclosed no conflict of interest.
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Beebe, Kathleen ..........Disclosed no conflict of interest.
Beger, Richard ..........Disclosed no conflict of interest.
Begley, Matthew ..........5: 4WEB Medical Inc.
Behnam, Yashar ..........Disclosed no conflict of interest.
Behnam, Yashar A ..........Disclosed no conflict of interest.
Behrens, Andrew ..........Disclosed no conflict of interest.
Bein, Alexander J ..........Disclosed no conflict of interest.
Beißel, Julia ..........Disclosed no conflict of interest.
Beitler, Brian ..........Disclosed no conflict of interest.
Bejarano Pineda, Lorena ..........Disclosed no conflict of interest.
Bell, Jennifer A ..........Disclosed no conflict of interest.
Bell, Jennifer A ..........Disclosed no conflict of interest.
Bell, Kevin ..........5: Nitto Denko Corporation.
Bell, Kevin ..........Disclosed no conflict of interest.
Bell, Richard ..........3A: Hospital for Special Surgery, Weill Cornell Medical College.
Bell, Richard ..........Disclosed no conflict of interest.
Bell-Hensley, Austin P ..........Disclosed no conflict of interest.
Bellini, Chiara ..........Disclosed no conflict of interest.
Bello, Margaret ..........Disclosed no conflict of interest.
Beloglowka, Kail .................................. Disclosed no conflict of interest.
Beltrand, Ethan .................................. Disclosed no conflict of interest.
Belvedere, Claudio ............................... Disclosed no conflict of interest.
Belzile, Etienne ................................. Disclosed no conflict of interest.
Benedick, Alexander ............................ Disclosed no conflict of interest.
Benes, Gregory ................................. Disclosed no conflict of interest.
Benevenia, Joseph .............................. 1: Merete, 3B: Merete, 5: Merete.
Bengart, Joseph ................................. Disclosed no conflict of interest.
Benimovich, Irina ............................... 3A: Caira Surgical.
Benna, Jacob C ................................. Disclosed no conflict of interest.
Benninger, Richard .............................. Disclosed no conflict of interest.
Benoit, Danielle ................................. Disclosed no conflict of interest.
Benotti, Peter ................................. Disclosed no conflict of interest.
Bensreti, Husam Eldin .......................... Disclosed no conflict of interest.
Bensusan, Jay ................................. Disclosed no conflict of interest.
Bentil, Sarah ................................. Disclosed no conflict of interest.
Berg, Ari ................................. Disclosed no conflict of interest.
Berger, Andrew J .............................. Disclosed no conflict of interest.
Berger, Garrett .............................. Disclosed no conflict of interest.
Berger, Michael .............................. Disclosed no conflict of interest.
Berges, Bradford K ............................ Disclosed no conflict of interest.
Bergholt, Mads ................................. Disclosed no conflict of interest.
Bergholt, Mads S .............................. Disclosed no conflict of interest.
Berglund, Lawerence .......................... Disclosed no conflict of interest.
Bernarding, Benjamin .......................... Disclosed no conflict of interest.
Bernholt, David ............................... Disclosed no conflict of interest.
Bernstein, Elizabeth .......................... Disclosed no conflict of interest.


Berry, David .........................Disclosed no conflict of interest.

Berry, Greg .........................Disclosed no conflict of interest.

Bersi, Matthew R....................Disclosed no conflict of interest.

Bertassoni, Luiz .......................4: own stocks on HuMarrow and RegendoDent, 6: have received institutional support from GSK, and participate in projects funded by AstraZeneca.


Berti, Lisa .......................Disclosed no conflict of interest.

Berube, Erin .......................Disclosed no conflict of interest.

Berube, Erin E .......................Disclosed no conflict of interest.

Beshara, Peter ......................Disclosed no conflict of interest.

Besier, Thor F.......................Disclosed no conflict of interest.

Best, Cameron .......................Disclosed no conflict of interest.

Best, Matthew J.....................Disclosed no conflict of interest.

Best, Thomas .......................Disclosed no conflict of interest.

Best, Thomas M......................Disclosed no conflict of interest.

Best, Thomas M......................Disclosed no conflict of interest.

Betensky, Daniel .....................Disclosed no conflict of interest.

Betsch, Kevin .......................Disclosed no conflict of interest.

Bettencourt, Jacob ..................Disclosed no conflict of interest.

Bettencourt, Jacob W..............Disclosed no conflict of interest.

Bettencourt, Jacob W..............Disclosed no conflict of interest.

Betz, Michael ......................Disclosed no conflict of interest.

Beuses, Lucila......................Disclosed no conflict of interest.
Beveridge, Jillian  
Disclosed no conflict of interest.

Beveridge, Jillian E  
Disclosed no conflict of interest.

Beynnon, Bruce D  
Disclosed no conflict of interest.

Bezold, Will  
Disclosed no conflict of interest.

Bhadouria, Neharika  
Disclosed no conflict of interest.

Bharatkumar Babariya, Mansi  
Disclosed no conflict of interest.

Bhattacharjee, Rupsa  
Disclosed no conflict of interest.

BHATTACHARYA, ROUNAK  
Disclosed no conflict of interest.

Bhattacharyya, Subha  
Disclosed no conflict of interest.

Bhatty, Ali  
Disclosed no conflict of interest.

Bhimani, Rohan  
Disclosed no conflict of interest.

Bhogoju, Sarayu  
Disclosed no conflict of interest.

Bhutani, Nidhi  
Disclosed no conflict of interest.

Bianchini, Emilia  
Disclosed no conflict of interest.

Bible, Jesse E  
Disclosed no conflict of interest.

Bichara, David A  

Bido, Jennifer  
Disclosed no conflict of interest.

Biederman, Brett  
Disclosed no conflict of interest.

Biggs, Amy  
Disclosed no conflict of interest.

Biggs, Amy E  
Disclosed no conflict of interest.

Biggs, Amy E.  
Disclosed no conflict of interest.

Biguetti, Claudia C  
Disclosed no conflict of interest.

Bijukumar, Divya  
Disclosed no conflict of interest.

Bijwadia, Shefali R  
Disclosed no conflict of interest.

Bill, Kevin  
Disclosed no conflict of interest.

Billington, Emma  
Disclosed no conflict of interest.

Binder, Robert  
Disclosed no conflict of interest.

Binder-Markey, Benjamin  
Disclosed no conflict of interest.

Bindner, Corey  
Disclosed no conflict of interest.

Bini, Stefano  
3B: Paid consultant.
Birchmeier, Thomas Disclosed no conflict of interest.
Bird, Justin Disclosed no conflict of interest.
Birk, David Disclosed no conflict of interest.
Birk, David E Disclosed no conflict of interest.
Bisazza, Katie Disclosed no conflict of interest.
Bischoff, Caleb Disclosed no conflict of interest.
Bischoff, Jeff Disclosed no conflict of interest. 3A: Zimmer Biomet, 4: Zimmer Biomet.
Bisson, Daniel Disclosed no conflict of interest.
Bisson, Daniel G Disclosed no conflict of interest.
Bisson, Leslie Disclosed no conflict of interest.
Bisson, Leslie J Disclosed no conflict of interest.
Bisson, Sophia Disclosed no conflict of interest.
Bitter, Thom Disclosed no conflict of interest.
Bixby, Sarah D Disclosed no conflict of interest.
Bixel, Gabriele Disclosed no conflict of interest.
Blackburn, Collin W Disclosed no conflict of interest.
Blackwood, Cheryl Disclosed no conflict of interest.
Blackwood, Clint B Disclosed no conflict of interest.
Blaine, Theodore A Disclosed no conflict of interest.
Blakeney, William Disclosed no conflict of interest.
Blaker, Carina L Disclosed no conflict of interest.
Blanchard, Owen Disclosed no conflict of interest.
Blank, Jonathon Disclosed no conflict of interest.
Blatt, Rebekah L Disclosed no conflict of interest.
Blazer, Levi 3A: AntlerA.
Block, Jessica Disclosed no conflict of interest.
Blokpoel Ferreras, Lia Disclosed no conflict of interest.
Blokpoel, Lia A Disclosed no conflict of interest.
Bloks, Niek Disclosed no conflict of interest.
Blomquist, Matthew ..................Disclosed no conflict of interest.
Blosser, Rachel .......................Disclosed no conflict of interest.
Bo Won, Jung .........................Disclosed no conflict of interest.
Boateng, Henry .......................Disclosed no conflict of interest.
Bobko, Aimee .........................Disclosed no conflict of interest.
Boccaccini, Aldo .....................Disclosed no conflict of interest.
Bock, Ryan ............................Disclosed no conflict of interest.
Bodendorfer, Blake ..................Disclosed no conflict of interest.
Bodke, Vedant V ......................Disclosed no conflict of interest.
Boerckel, Joel .......................Disclosed no conflict of interest.
Boerckel, Joel D. .....................Disclosed no conflict of interest.
Boettcher, Marissa ...................Disclosed no conflict of interest.
Boeyer, Melanie ......................6: Zimmer Biomet.
Boeyer, Melanie E ....................5: ZimVie.
Bogers, Sophie H .....................Disclosed no conflict of interest.
Bogle, Jasmine .......................Disclosed no conflict of interest.
Bohnert, Kathryn L ..................Disclosed no conflict of interest.
Bok, Seoyeon .........................Disclosed no conflict of interest.
Bokam, Vijay .........................Disclosed no conflict of interest.
Boldt, Kevin ........................Disclosed no conflict of interest.
Bolger, Morgan ......................Disclosed no conflict of interest.
Bollag, Wendy B. .....................Disclosed no conflict of interest.
Bolognesi, Michael ..................Disclosed no conflict of interest.
Bomma, Likhith R ...................Disclosed no conflict of interest.
Bonadiman, Joao Artur .............Disclosed no conflict of interest.
Bonassar, Lawrence ................Disclosed no conflict of interest.
Bonassar, Lawrence .................3B: 3DBio.
Bonassar, Lawrence ................3B: Fidia Pharmaceuticals, Inc., 3DBio Corp. 5.
Bonassar, Lawrence J ..............3B: Nucleus ProVets LLC.
Bonassar, Lawrence J ..............3C: Fidia Farmaceutici.
Bonassar, Lawrence J. ..........3B: Fidia Pharmaceuticals and 3DBio Corp.

Bond, Colin........................Disclosed no conflict of interest.

Bond, Colin W ......................Disclosed no conflict of interest.

Bond, Colin W .................Disclosed no conflict of interest.

Bondar, Kevin J............Disclosed no conflict of interest.

Bonelli, Hannah ..............Disclosed no conflict of interest.

Bonilla, Andres ..................Disclosed no conflict of interest.


Bonnevie, Edward D. .........Disclosed no conflict of interest.

Bonnheim, Noah B. ...............Disclosed no conflict of interest.

Bons, Joanna ..................Disclosed no conflict of interest.

Boo, Junyo ........................Disclosed no conflict of interest.

Boone, Ilja ......................Disclosed no conflict of interest.

Boorman-Padgett, James ......Disclosed no conflict of interest.

Booze, Zachary .................Disclosed no conflict of interest.

Boozé, Zachary ................Disclosed no conflict of interest.

Borek, Ryan C ..................Disclosed no conflict of interest.

Borgstrom, Mark ..............Disclosed no conflict of interest.

Borjali, Alireza .................Disclosed no conflict of interest.

Borkhetaria, Pranati ..........Disclosed no conflict of interest.

Born, Christopher ..........4: BI Medical, LLC, Biointraface, Inc.

Born, Christopher ..........4: owns equity in BI Medical, LLC, owns stock in Biointraface, Inc.

Borotikar, Bhushan ..........Disclosed no conflict of interest.

Borreli, Joseph ...............Disclosed no conflict of interest.

Borscz, Marcus ...............Disclosed no conflict of interest.

Boruah, Sourabh .............3A: RevBio, Inc.

Borukhov, Ilya .............3A: Stryker, 4: Stryker.

Borukhov, Ilya .............3A: Stryker.
Bostrom, Mathias ................. 3B: Smith & Nephew.

Bostrom, Mathias .................. 3A: Hospital for Special Surgery, Weill Cornell Medical College.

Bostrom, Mathias P ................ Disclosed no conflict of interest.


Botros, Mina ..................... Disclosed no conflict of interest.

Botros, Mina A ................... Disclosed no conflict of interest.

Bou Ghosson Leite, Chilan .... Disclosed no conflict of interest.

Bou-Akl, Therese .................. Disclosed no conflict of interest.

Boucas, Peter ..................... Disclosed no conflict of interest.

Bouchard, Alice ................... Disclosed no conflict of interest.

Bouji, Nour ....................... Disclosed no conflict of interest.

Bouklas, Nikolaos ............... Disclosed no conflict of interest.

Bourbon de Albuquerque II, Joao Disclosed no conflict of interest.

Bourbon de Albuquerque II, João Disclosed no conflict of interest.

Bourekis, Katherine .......... Disclosed no conflict of interest.

Bouterse, Alexander ........... Disclosed no conflict of interest.

Bouve, Lyndsey ................. Disclosed no conflict of interest.

Bouxsein, Mary .................. Disclosed no conflict of interest.

Bouxsein, Mary L ............... Disclosed no conflict of interest.

Bouxsein, Mary L ............... 3B: Keros Therapeutics, Beryl Therapeutics, 4: Keros Therapeutics, 9: ASBMR.

Bouz, Gabriel J. ................. Disclosed no conflict of interest.

Bowden, Anton .................. 4: Sensable Technologies.

Bowden, Anton E ............... 5: Healix Spine.

Bowden, Anton E ................ Disclosed no conflict of interest.

Bowden, Anton E ................ Disclosed no conflict of interest.

Bowden, Jennifer A ............ Disclosed no conflict of interest.

Bowden, Lucy C ................. Disclosed no conflict of interest.

Bowen, Edward ................. Disclosed no conflict of interest.

Bowers, Kristin M .......... Disclosed no conflict of interest.
Bowles, Robert ....................... Disclosed no conflict of interest.
Bowman, Peter ....................... Disclosed no conflict of interest.
Bowsman, Leandra .................... 3A: DePuy Synthes.
Boyan, Barbara ....................... 3B: Medtronic, Nexus Spine, 3C: Curiteva, 5: Pascal Medical Corporation, Medtronic, 9: Pascal Medical Corporation.
Boyan, Barbara ....................... Disclosed no conflict of interest.
Boyan, Barbara D ...................... 3B: Medtronic, Nexus Spine, 3C: Curiteva, 5: Medtronic, Pascal Medical Corporation, 9: Pascal Medical Corporation.
Boyan, Barbara D ...................... 3B: Medtronic, Nexus Spine, 3C: Curiteva, 5: Medtronic, Pascal Medical Corporation, 9: Pascal Medical Corporation.
Boyn, Barbara ....................... Disclosed no conflict of interest.
Boyce, Brendan ....................... Disclosed no conflict of interest.
Boyd, David A. ....................... Disclosed no conflict of interest.
Boyd, Jonathan ....................... Disclosed no conflict of interest.
Boyd, Jonathan W ..................... Disclosed no conflict of interest.
Boyer, Timothy L ..................... Disclosed no conflict of interest.
Boyes, Madeline ..................... Disclosed no conflict of interest.
Bozynski, Chantelle .................. Disclosed no conflict of interest.
Bozynski, Chantelle C ............... Disclosed no conflict of interest.
Bozynski, Chantelle C ............... Disclosed no conflict of interest.
Bradley, Elizabeth W ................. Disclosed no conflict of interest.
Bradley, Elizabeth W ................. 5: Medtronic, 8: BMC Musculoskeletal Disorders.
Bradley, Elizabeth W ................. 5: Medtronic.
Bradley, Taylor R ..................... Disclosed no conflict of interest.
Bradshaw, Adam ....................... Disclosed no conflict of interest.
Bradshaw, Adam J ..................... Disclosed no conflict of interest.
Brady, Alex W ....................... Disclosed no conflict of interest.
Brady, Anna ......................... Disclosed no conflict of interest.
Bragdon, Beth ....................... Disclosed no conflict of interest.
Brahmachary, Priyanka ............... Disclosed no conflict of interest.
Brama, Pieter ....................... Disclosed no conflict of interest.
Branch, Benjamin ...................... Disclosed no conflict of interest.
Branch, Eric A ......................... Disclosed no conflict of interest.
Brand, David .......................... Disclosed no conflict of interest.
Brand, David D ........................ Disclosed no conflict of interest.
Brauer, Erik ............................ Disclosed no conflict of interest.
Braun, Theresa ........................ Disclosed no conflict of interest.
Braxton, Lauryn A ...................... Disclosed no conflict of interest.
Brecount, Hogan ....................... Disclosed no conflict of interest.
Breighner, Ryan E ..................... Disclosed no conflict of interest.
Breghner, Ryan E ..................... Disclosed no conflict of interest.
Brekhus, Chloe ........................ Disclosed no conflict of interest.
Brenner, Jillian ........................ 3A: Employee of Terumo BCT.
Brentlinger, Grace ..................... Disclosed no conflict of interest.
Breslin, Mary A ....................... Disclosed no conflict of interest.
Brett, Alan ............................. 3A: Stryker Corp, 4: Stryker Corp.
Breulmann, Franziska L .............. Disclosed no conflict of interest.
Brewer, Leslie ........................ Disclosed no conflict of interest.
Brinkman, Joseph C ................... Disclosed no conflict of interest.
Briscoe, Adam ......................... 3A: Invibio Ltd.
Brittain, Abby R ...................... Disclosed no conflict of interest.
Britton, Marissa ...................... Disclosed no conflict of interest.
Broberg, Jordan ....................... Disclosed no conflict of interest.
Brockett, Claire ...................... Disclosed no conflict of interest.
Brockman, Bryan ..................... Disclosed no conflict of interest.
Brogan, David M ...................... 5: Checkpoint Surgical, Neuraptive Therapeutics, 9: ASSH.
Brogan, David M ...................... 5: Checkpoint Surgical, Neuraptive Therapeutics.
Brolin, Tyler .......................... 3B: Arthrex, Inc: Paid consultant, 5: Research support, DJ Orthopaedics, 7B: Elsevier: Publishing royalties, financial or material support, Orthofix, Inc.: Research support, 8: AAOS: Board or Committee Member, American Shoulder and Elbow Surgeons: Board or committee member, Orthopedic Clinics of North America: Editorial or governing board.
Brooks, Daniel J ...................... 3B: Keros Therapeutics.
Broome, Jalen.................. *Disclosed no conflict of interest.*
Brophy, Robert .................. 8: Deputy Editor.
Brophy, Robert H.................. 8: AJSM, 9: AAOS, AOA, AOSSM.
Brothers, Anthony .................. *Disclosed no conflict of interest.*
Brouillette, Marc.................. *Disclosed no conflict of interest.*
Broun, Katherine .................. *Disclosed no conflict of interest.*
Brow, Richard K .................. *Disclosed no conflict of interest.*
Brown, Anthony N .................. *Disclosed no conflict of interest.*
Brown, Ashley C .................. *Disclosed no conflict of interest.*
Brown, Ashley C .................. 4: Selsym Biotech Inc.
Brown, De’Andre W .................. *Disclosed no conflict of interest.*
Brown, Jessica .................. *Disclosed no conflict of interest.*
Brown, Justin .................. *Disclosed no conflict of interest.*
Brown, Justin R .................. *Disclosed no conflict of interest.*
Brown, Kenna .................. *Disclosed no conflict of interest.*
Brown, Madison N .................. *Disclosed no conflict of interest.*
Brown, Marcel G .................. *Disclosed no conflict of interest.*
Brown, Michael E .................. *Disclosed no conflict of interest.*
Brown, Timothy .................. *Disclosed no conflict of interest.*
Brown, Tyler .................. *Disclosed no conflict of interest.*
Broz, Kaitlyn .................. *Disclosed no conflict of interest.*
Broz, Kaitlyn S .................. *Disclosed no conflict of interest.*
Bruce, Warwick .................. 4: 360 Med Care.
Brunauer, Regina .................. *Disclosed no conflict of interest.*
Brunger, Jonathan ..............
Brunger, Jonathan M .............. *Disclosed no conflict of interest.*
Brunner, Florian .................. *Disclosed no conflict of interest.*
Bruns, Rachel ............................... Disclosed no conflict of interest.
Brusalis, Christopher .................... Disclosed no conflict of interest.
Brush, Parker L ......................... Disclosed no conflict of interest.
Bryan, Rebecca ......................... 3A: Synopsys Inc.
Bryant, Matthew ....................... Disclosed no conflict of interest.
Bryant, Stephanie ....................... Disclosed no conflict of interest.
Bryk, Eli ........................................ Disclosed no conflict of interest.
Bryniarski, Anna ....................... Disclosed no conflict of interest.
Bub, Christine .............................. Disclosed no conflict of interest.
Bub, Christine Decker ................. Disclosed no conflict of interest.
Buchholz, Tim .............................. Disclosed no conflict of interest.
Buchowski, Jacob M .................. Disclosed no conflict of interest.
Buchweitz, Nathan ........................ Disclosed no conflict of interest.
Buckelew, Daniel ........................ Disclosed no conflict of interest.
Buckens, Constantinus F. .......... Disclosed no conflict of interest.
Buckley, Christopher D ............... Disclosed no conflict of interest.
Buckley, Mark R ......................... Disclosed no conflict of interest.
Buckley, Niamh ............................ Disclosed no conflict of interest.
Buckley, Sara ............................... Disclosed no conflict of interest.
Buckner, Steven W ...................... Disclosed no conflict of interest.
Buckwalter V, Joseph .................. Disclosed no conflict of interest.
Buckwalter V, Joseph A ............... Disclosed no conflict of interest.
Buckwalter, Joseph A .................. Disclosed no conflict of interest.
Buddhiraju, Anirudh .................... Disclosed no conflict of interest.
Buehring, Weston ....................... Disclosed no conflict of interest.
Bueno, Brian .............................. Disclosed no conflict of interest.
Buetti-Dinh, Antoine ................. Disclosed no conflict of interest.
Buettmann, Evan ....................... Disclosed no conflict of interest.
Buettmann, Evan G ..................... Disclosed no conflict of interest.
Buffi, Nina .................................. Disclosed no conflict of interest.
Bugbee, William ..........................3B: JRF Ortho, Bioventus, Arthrex.
Buko, Erick ..................................Disclosed no conflict of interest.
Buko, Erick O..............................Disclosed no conflict of interest.
Buko, Erick O. ..............................Disclosed no conflict of interest.
Buldo-Licciardi, Michael ..........Disclosed no conflict of interest.
Bülow, Jasmin............................Disclosed no conflict of interest.
Bulun, Serdar .............................Disclosed no conflict of interest.
Bunnell, Bruce ............................Disclosed no conflict of interest.
Burda, Joshua ............................Disclosed no conflict of interest.
Burdick, Jason ...........................Disclosed no conflict of interest.
Bureau, Antoine .........................Disclosed no conflict of interest.
Burkhead, Katie .......................3A: DePuy Synthes.
Burkholder, Alan ......................3B: Kleiner Device Labs.
Burks, Scott R..........................Disclosed no conflict of interest.
Burnett, Robert .........................Disclosed no conflict of interest.
Burns, Jillian C .........................Disclosed no conflict of interest.
Burris, David L.........................Disclosed no conflict of interest.
Burroughs, Patrick J ..................Disclosed no conflict of interest.
Burt, Kevin ..............................Disclosed no conflict of interest.
Burton, Jordan B ......................Disclosed no conflict of interest.
Burton, Lindsey .......................Disclosed no conflict of interest.
Burton, William ......................3B: Ortho Haus, LLC.
Busch, Megan E .......................Disclosed no conflict of interest.
Butler, Joseph .........................Disclosed no conflict of interest.
Buttgereit, Frank .....................Disclosed no conflict of interest.
Byrapogu, Kal.........................Disclosed no conflict of interest.
Byrapogu, Venkata Kalyan........*Disclosed no conflict of interest.*
Byrapogu, Venkata Kalyan C.....*Disclosed no conflict of interest.*
Byrd, Jay J. ..........................*Disclosed no conflict of interest.*
Byrne, James D ..........................*Disclosed no conflict of interest.*
Bzovskys, Sofia ..........................*Disclosed no conflict of interest.*
Caba, Melanie ..........................3A: Stryker, 4: Stryker.
Cabrera, Alison .........................*Disclosed no conflict of interest.*
Cabrera, Andrew .......................*Disclosed no conflict of interest.*
Cadieux, Chloe ..........................*Disclosed no conflict of interest.*
Cady-McCrea, Clarke  ...............*Disclosed no conflict of interest.*
Cagle, Paul J ..........................3B: Stryker, Johnson & Johnson.
Cahill, Patrick .........................*Disclosed no conflict of interest.*
Cai, Lei .................................*Disclosed no conflict of interest.*
cai, siyi .................................*Disclosed no conflict of interest.*
Cai, Xiaomin .............................*Disclosed no conflict of interest.*
Cain, Christopher .....................*Disclosed no conflict of interest.*
Cain, Jarrett .............................*Disclosed no conflict of interest.*
Caiola, Marco .........................*Disclosed no conflict of interest.*
Caisley, Allyson B ....................*Disclosed no conflict of interest.*
Caisley, Allyson B ....................*Disclosed no conflict of interest.*
Calcei, Jacob ............................*Disclosed no conflict of interest.*
Caldwell, Christopher ...............*Disclosed no conflict of interest.*
Call, Jarrod A ..........................*Disclosed no conflict of interest.*
Callan, Claire .........................*Disclosed no conflict of interest.*
Callary, Stuart .......................*Disclosed no conflict of interest.*
camilleri, Emily .....................*Disclosed no conflict of interest.*
Cammissa, Frank P .................*Disclosed no conflict of interest.*
Cammissa, Frank P ...................*Disclosed no conflict of interest.*
Camp, Christopher L ...............*Disclosed no conflict of interest.*
Campbell, Breanna .................*Disclosed no conflict of interest.*
Campbell, Lia ................................3A: Tissue Testing Technologies.
Campbell, Nathan WC ..................Disclosed no conflict of interest.
Camus, Anne ................................Disclosed no conflict of interest.
Canga, Sophia M .........................Disclosed no conflict of interest.
Cann, Abrefi ................................Disclosed no conflict of interest.
Cann, Ewurama A ......................3A: Hospital fr Special Surgery.
Cannizzaro, John P ....................Disclosed no conflict of interest.
Cannon, Kyle ..............................Disclosed no conflict of interest.
Canseco, Jose A .........................Disclosed no conflict of interest.
Canton, Stephen .........................Disclosed no conflict of interest.
Canty, Mary ..............................3A: Garwood Medical Devices, 4: Garwood Medical Devices.
Cao, Chike ................................Disclosed no conflict of interest.
Cao, Linying ..................Disclosed no conflict of interest.
Cao, Mu-Min ..............................Disclosed no conflict of interest.
Caparaso, Sydney M ..................Disclosed no conflict of interest.
Caparaso, Sydney M ..................Disclosed no conflict of interest.
caparino, kevin ..................Disclosed no conflict of interest.
Capitano, Maegan L ..................Disclosed no conflict of interest.
Capobianco, Christina .............Disclosed no conflict of interest.
Capotosto, Salvatore ..................Disclosed no conflict of interest.
Carballido-Gamio, Julio ..........Disclosed no conflict of interest.
Carballo, Camila ......................Disclosed no conflict of interest.
Carbuhn, Aaron .........................Disclosed no conflict of interest.
Carcia, Austin J .........................Disclosed no conflict of interest.
Cardona Ramirez, Sebastian .....Disclosed no conflict of interest.
Cardwell, Maxwell ..................Disclosed no conflict of interest.
Carli, Alberto .........................3A: Hospital for Special Surgery, Weill Cornell Medical College.
Carli, Alberto ..................3B: Heraeus Medical.
Carli, Alberto ..................Disclosed no conflict of interest.
Carli, Alberto .................................. 3C: Heraeus Medical.

Carlos, Noel .................................. Disclosed no conflict of interest.

Carlson, Jaclyn A ............................ Disclosed no conflict of interest.

Carmouche, Jonathan ...................... Disclosed no conflict of interest.

Carney, Randy ............................... Disclosed no conflict of interest.

Carney, Tara E ............................... Disclosed no conflict of interest.

Caro, Daniela ............................... Disclosed no conflict of interest.

Carpenter, Dana ............................ 5: Applied medical technology funds a sponsored research project in host lab.

Carpenter, Dana ............................ 5: Applied Medical Technology, Inc.

Carpenter, Dana ............................ Disclosed no conflict of interest.

Carr, Andrew ............................... Disclosed no conflict of interest.

Carriero, Alessandra ...................... Disclosed no conflict of interest.

Carrillo, Fernando .......................... Disclosed no conflict of interest.

Carritte, Madeline M ...................... Disclosed no conflict of interest.

Carroll, Chad C ............................ Disclosed no conflict of interest.

Carruthers, Elizabeth ..................... Disclosed no conflict of interest.

Carry, Patrick M ........................... 3B: American Orthopaedic Foot and Ankle Society.

Carsen, Sasha ............................... Disclosed no conflict of interest.

Carstens, Mason F .......................... Disclosed no conflict of interest.

Carstens, Mason F .......................... Disclosed no conflict of interest.

Carter, Cordelia W ......................... Disclosed no conflict of interest.

Carter, Erin ................................. Disclosed no conflict of interest.

Cartwright, Zach ........................... Disclosed no conflict of interest.

Caruana, Dennis L ......................... Disclosed no conflict of interest.

CARVALHO, KEPLER ...................... Disclosed no conflict of interest.

CARVALHO, KEPLER ALENCA MENDES DE Disclosed no conflict of interest.

Casal, Margret L ........................... Disclosed no conflict of interest.

Casey, Sarah ............................... Disclosed no conflict of interest.

Casey, Vincent ............................. Disclosed no conflict of interest.
Casserly, Matthew disclosed no conflict of interest.

Castaneda, Chloe disclosed no conflict of interest.

Castellanos, Gabriella disclosed no conflict of interest.

Castile, Ryan disclosed no conflict of interest.

Castile, Ryan M. disclosed no conflict of interest.

Castillo Tafur, Julio disclosed no conflict of interest.

Caswell, Clayton C disclosed no conflict of interest.

Caughey, Sarah disclosed no conflict of interest.

Causey, Greg 3B: Kleiner Device Labs.

Causey, Greg 3B: Applied Medical Technology, Inc.

Cavanagh, Brenton disclosed no conflict of interest.

Cazzanelli, Petra disclosed no conflict of interest.

Ch’en, Peter Y disclosed no conflict of interest.

Cha, Hyung Joon disclosed no conflict of interest.

Cha, Ryota disclosed no conflict of interest.

Cha, Thomas 3B: Stryker, NuVasive.

Chae, Seungbum disclosed no conflict of interest.

Chahine, Nadeen disclosed no conflict of interest.

Chahine, Nadeen O. disclosed no conflict of interest.


Chakravarty, Suridh disclosed no conflict of interest.

Chalmers, Brian disclosed no conflict of interest.

Chamberlain, Aaron disclosed no conflict of interest.

Chamberlain, Aaron M. 1: DePuy, 3B: DePuy, Arthrex, 5: Zimmer Biomet.

Chamberlain, Aaron M. disclosed no conflict of interest.

Chamberlain, Connie disclosed no conflict of interest.

Chamberlain, Connie S. disclosed no conflict of interest.

Chambers, MaKenzie disclosed no conflict of interest.

Chambers, MaKenzie M disclosed no conflict of interest.
Chan, Danny ............................... Disclosed no conflict of interest.
Chan, Jasper F.W. ......................... Disclosed no conflict of interest.
Chan, Jinyan ............................... Disclosed no conflict of interest.
Chan, Julie L ............................... 5: Misonex Inc.
Chan, Julie L ............................... 5: MISONIX, INC. Research support. RA202100035.
Chan, Kiara M ............................. Disclosed no conflict of interest.
Chan, Vivas Hon Fai ....................... Disclosed no conflict of interest.
Chandi, Sonia ............................... Disclosed no conflict of interest.
Chandler, Andrew ........................ Disclosed no conflict of interest.
Chandrasekaran, Prashant .............. Disclosed no conflict of interest.
Chang, Alex L .............................. Disclosed no conflict of interest.
Chang, Cher ................................. Disclosed no conflict of interest.
Chang, Eric ................................. Disclosed no conflict of interest.
Chang, Gregory ............................ Disclosed no conflict of interest.
Chang, Je-Ken ................................ Disclosed no conflict of interest.
Chang, Jerry ................................. 3A: Jerry Chang.
Chang, Kenny ............................... Disclosed no conflict of interest.
Chang, Leslie ............................... Disclosed no conflict of interest.
Chang, Linghua ............................. Disclosed no conflict of interest.
Chang, Ling-Hua ............................ Disclosed no conflict of interest.
Chang, Stephanie .......................... Disclosed no conflict of interest.
Chang, Stephanie W ....................... Disclosed no conflict of interest.
Chang, Wei ................................. Disclosed no conflict of interest.
Chao, Christina ............................ Disclosed no conflict of interest.
Chao, Christina ............................ 3A: Hospital for Special Surgery.
Chao, Christina A ........................ Disclosed no conflict of interest.
Chao, Linda ................................. Disclosed no conflict of interest.
Chao, Olivia ............................... Disclosed no conflict of interest.
Chapman, Graham ......................... Disclosed no conflict of interest.
Chapman, Marrin ......................... Disclosed no conflict of interest.
Chapple, Andrew G .................. Disclosed no conflict of interest.

Charles, Iyana ....................... Disclosed no conflict of interest.

Charles, Julia ........................ Disclosed no conflict of interest.

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Chee, Ana V ............................ Disclosed no conflict of interest.

Chen, Andrew .......................... Disclosed no conflict of interest.

Chen, Angel ............................ Disclosed no conflict of interest.

Chen, Antonia ......................... 3B: Stryker, bOne, Haylard, Signature, 3M, Convatec, DePuy, Heraeus, 4: Graftworx, Joint Purification System, Sonoran, Hyalex, Irrimax, bOne, 8: Journal of arthroplasty, KSSTA, BJJ 360, CORR, 9: AAHKS, AAOS, MSIS.

Chen, Chiu-Fang ....................... Disclosed no conflict of interest.

Chen, Chung-Hwan ..................... Disclosed no conflict of interest.

Chen, Daoyun .......................... Disclosed no conflict of interest.

Chen, Fangjian ......................... Disclosed no conflict of interest.
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Chen, Jessica.........................Disclosed no conflict of interest.
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Chen, Jiebo............................Disclosed no conflict of interest.
Chen, Kaiwei..........................3A: ZSFab.
Chen, Keren..........................Disclosed no conflict of interest.
Chen, Kiana L.........................Disclosed no conflict of interest.
Chen, Larry..........................Disclosed no conflict of interest.
Chen, Leyi............................Disclosed no conflict of interest.
Chen, Ling............................Disclosed no conflict of interest.
Chen, Matthew S......................Disclosed no conflict of interest.
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Chen, Qian............................Disclosed no conflict of interest.
Chen, Stephen.........................Disclosed no conflict of interest.
Chen, Szu-Hsien......................Disclosed no conflict of interest.
Chen, Tony...........................3A: Employee AGelity Biomechanics.
Chen, Tony..................3A: AGelity Biomechanics Corp, 4: AGelity Biomechanics Corp.
Chen, Tony..........................3B: Agelity Biomechanics Corp.
Chen, Tony Lin-Wei.................Disclosed no conflict of interest.
Chen, Vivian..........................Disclosed no conflict of interest.
Chen, Vivian Y.......................Disclosed no conflict of interest.
Chen, Wen-ming.......................Disclosed no conflict of interest.
Chen, Xiang..........................Disclosed no conflict of interest.
Chen, Xizhao..........................Disclosed no conflict of interest.
Chen, Yong .................................. Disclosed no conflict of interest.
Chen, Yumei.................................. Disclosed no conflict of interest.
Chen, Yunsu .................................. Disclosed no conflict of interest.
Chen, Yupeng .................................. Disclosed no conflict of interest.
Chen, Ziming .................................. Disclosed no conflict of interest.
Chenault, Parker ............................ Disclosed no conflict of interest.
Cheng, Boyle .................................. 5: Next Science, LLC.
Cheng, Jennifer .................................. Disclosed no conflict of interest.
Cheng, Kai-yuan .................................. Disclosed no conflict of interest.
Cheng, Karen .................................. Disclosed no conflict of interest.
Cheng, Mei-Hsin ............................ Disclosed no conflict of interest.
Cheng, Rongshan ............................ Disclosed no conflict of interest.
Cheng, Tak ................................. 3A: Orthocell Ltd; R&D Commercial Research Officer.
Cheng, Wayne .................................. Disclosed no conflict of interest.
Chenna, Srish S .............................. Disclosed no conflict of interest.
Cheong, Ellie ............................... Disclosed no conflict of interest.
Cheong, Sunghun ............................ Disclosed no conflict of interest.
Cheppalli, Naga Suresh P .......... Disclosed no conflict of interest.
Cherian, Nathan J ......................... Disclosed no conflict of interest.
Cherian, Philip ............................. 3A: BioVinc.
Cherief, Masnsen ........................... Disclosed no conflict of interest.
Cherif, Hosni ............................... Disclosed no conflict of interest.
Chermside-Scabbo, Christopher J Disclosed no conflict of interest.
Cherppukaran, Tanya ..................... Disclosed no conflict of interest.
Chery, Daphney R. ........................ Disclosed no conflict of interest.
Cheung, Emilie ............................. 7A: Exactech, Inc.
Cheung, Jason P. Y. ........................ Disclosed no conflict of interest.
Cheung, Kenneth .......................... Disclosed no conflict of interest.
Cheung, Wing Hoi .......................... Disclosed no conflict of interest.
Cheung, Wing-Hoi .......................... Disclosed no conflict of interest.

CHI, ALLIAN .......................... Disclosed no conflict of interest.
Chi, Hannah M.R. ........................ Disclosed no conflict of interest.
Chi, Hao Wei ............................ Disclosed no conflict of interest.
Chi, Jialun .............................. Disclosed no conflict of interest.
Chiang, Isabel .......................... Disclosed no conflict of interest.
Chiapparelli, Erika ........................ Disclosed no conflict of interest.
Chiaramonti, Alexander .................. Disclosed no conflict of interest.
Chida, Shuya ............................ Disclosed no conflict of interest.
Chiesa, Irene ......................... Disclosed no conflict of interest.
Chihab, Samir ........................... Disclosed no conflict of interest.
Chikuda, Hirotaka ...................... Disclosed no conflict of interest.
Childers, Robert ....................... Disclosed no conflict of interest.
Childress, Luke ...................... Disclosed no conflict of interest.
Chin, Brian Zhaojie .................. Disclosed no conflict of interest.
Chin-Young, Britney ........................ Disclosed no conflict of interest.
Chirongoma, Tadiwanashe C ........... Disclosed no conflict of interest.
Chittim, Nicole A. ...................... Disclosed no conflict of interest.
Chiu, Austin ............................ Disclosed no conflict of interest.
Chiu, Yu-fen ............................ Disclosed no conflict of interest.
Chmell, Samuel ....................... Disclosed no conflict of interest.
Chmell, Samuel J. .................... Disclosed no conflict of interest.
Cho, Byung Wook ...................... Disclosed no conflict of interest.
Cho, Hongsik .......................... Disclosed no conflict of interest.
Cho, Won-Young ....................... Disclosed no conflict of interest.
Cho, Yun Jae ............................ Disclosed no conflict of interest.
Choe, Hyonmin ....................... Disclosed no conflict of interest.
Choe, Robert ........................... Disclosed no conflict of interest.
Choi, Byung Sun ....................... Disclosed no conflict of interest.
Choi, Jae Hee .......................... *Disclosed no conflict of interest.*

Choi, Jang-Hwan .......................... *Disclosed no conflict of interest.*

Choi, Jeongmoon J .......................... *Disclosed no conflict of interest.*

Choi, Jeongmoon J .......................... *Disclosed no conflict of interest.*


Choi, Junghwa .......................... *Disclosed no conflict of interest.*

Choi, Soo Kyung .......................... *Disclosed no conflict of interest.*

Choi, Yongwon .......................... *Disclosed no conflict of interest.*

Chokhandre, Snehal K .......................... *Disclosed no conflict of interest.*

Chokhandre, Snehal K .......................... *Disclosed no conflict of interest.*


Chong, Alexander .......................... *Disclosed no conflict of interest.*

Choo, Stephanie Choo L .......................... *Disclosed no conflict of interest.*


Chosa, Etsuo .......................... *Disclosed no conflict of interest.*

Chou, Hsin-Chiao .......................... *Disclosed no conflict of interest.*

Chou, Liang-Yin .......................... *Disclosed no conflict of interest.*

Chou, Paul Pei-Hsi .......................... *Disclosed no conflict of interest.*

Chou, Shih-Hsiang .......................... *Disclosed no conflict of interest.*

Chou, Ya-Shuan .......................... *Disclosed no conflict of interest.*


Chow, Jarred .......................... *Disclosed no conflict of interest.*

Chow, Lyndah .......................\textit{Disclosed no conflict of interest.}
Chow, Simon Kwoon Ho ..........\textit{Disclosed no conflict of interest.}
Chow, Simon Kwoon-ho ..........\textit{Disclosed no conflict of interest.}
Christ, Alexander B...............3B: Intellijoint Surgical, 9: Musculoskeletal Tumor Society, Orthopaedics Research Society, AAOS.
Christensen, Erin ..................\textit{Disclosed no conflict of interest.}
Christian, Diana ....................\textit{Disclosed no conflict of interest.}
Christiansen, Blaine ...............\textit{Disclosed no conflict of interest.}
Christiansen, Cory L ...............\textit{Disclosed no conflict of interest.}
Christine, Mironenko ..............\textit{Disclosed no conflict of interest.}
Christner, Donna ...................\textit{Disclosed no conflict of interest.}
Christof, Michael ..................\textit{Disclosed no conflict of interest.}
Christoph, Laux ....................\textit{Disclosed no conflict of interest.}
Chrostek, Cynthia ..................\textit{Disclosed no conflict of interest.}
Chu, Alice ..........................\textit{Disclosed no conflict of interest.}
Chu, Constance R ..................\textit{Disclosed no conflict of interest.}
Chu, Constance R .................5: Depuy, 9: Mimedx Scientific Advisory Board.
Chu, Michelle .....................\textit{Disclosed no conflict of interest.}
Chu, Tiankuo .......................\textit{Disclosed no conflict of interest.}
Chuang, Shu-chun ...................\textit{Disclosed no conflict of interest.}
Chubb, Laura .......................\textit{Disclosed no conflict of interest.}
Chubinskaya, Susanna .............\textit{Disclosed no conflict of interest.}
Chughtai, Morad ...................\textit{Disclosed no conflict of interest.}
Chun Kim, Ki .......................\textit{Disclosed no conflict of interest.}
Chung, Brian C .....................\textit{Disclosed no conflict of interest.}
Chung, Brian C.H ...................\textit{Disclosed no conflict of interest.}
Chung, Christine .................\textit{Disclosed no conflict of interest.}
Chung, David .......................\textit{Disclosed no conflict of interest.}
Chung, Julia .......................\textit{Disclosed no conflict of interest.}
Chung, Min-Shik ......................... Disclosed no conflict of interest.
Chut, Ashley K ......................... Disclosed no conflict of interest.
Ciccaglione, Mark ....................... Disclosed no conflict of interest.
Cimino, Amanda ......................... Disclosed no conflict of interest.
Ciufo, David ............................ Disclosed no conflict of interest.
Civilette, Matthew ....................... Disclosed no conflict of interest.
Civilette, Matthew D .................... Disclosed no conflict of interest.
Clancy, Edward A ....................... Disclosed no conflict of interest.


Clark, Gavin ............................. 2: Stryker, 3B: Stryker, 5: Stryker.

Clark, Karen L ............................ Disclosed no conflict of interest.

Clark, Megan A ........................... Disclosed no conflict of interest.

Clarke, Ashley ............................ Disclosed no conflict of interest.

Clarke, Elizabeth C ........................ 5: BLT, Allegra Orthopaedics, 9: The Lincoln Centre.

Clarke, Gabriel A .......................... Disclosed no conflict of interest.

Clary, Chadd ............................. 5: DePuy.

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Clayton, Sade ............................. Disclosed no conflict of interest.

Clayton, Sade W ........................... Disclosed no conflict of interest.

Clemens, Thomas ........................ Disclosed no conflict of interest.
Cline, Justin A ............................ *Disclosed no conflict of interest.*

Clippert, Drew ........................... *Disclosed no conflict of interest.*

Clohisy, John ............................. *Disclosed no conflict of interest.*


Clyburn, Terry .............................. *Disclosed no conflict of interest.*

Co, Cynthia ............................... *Disclosed no conflict of interest.*

Co, Megan ................................. *Disclosed no conflict of interest.*

Coats-Thomas, Margaret S ........... *Disclosed no conflict of interest.*

Cobb, Justin ............................... *Disclosed no conflict of interest.*

Cobban, Morgan .......................... *Disclosed no conflict of interest.*

Coello Hernandez, Andre ............ *Disclosed no conflict of interest.*

Coffman, Alex ............................. *Disclosed no conflict of interest.*

Coghlan, Ryan ............................. 1: Shriners Hospital.

Cohen, Andrew ............................ *Disclosed no conflict of interest.*

Cohen, David .............................. *Disclosed no conflict of interest.*

Cohen, David J ............................ *Disclosed no conflict of interest.*


Cohen, Ezra ............................... *Disclosed no conflict of interest.*

Cohen, Itai ................................. *Disclosed no conflict of interest.*

Cohen, Jordan S .......................... *Disclosed no conflict of interest.*


Cohen, Joshua D ........................... *Disclosed no conflict of interest.*

Cohen-Rosenblum, Anna .............. *Disclosed no conflict of interest.*

Colazo, Juan M ............................ *Disclosed no conflict of interest.*

Colbrunn, Robb W ........................ 1: Cleveland Clinic, simVITRO.


Cole, Brian J .............................. *Disclosed no conflict of interest.*

Coleman, Ashley ......................... *Disclosed no conflict of interest.*
Coleman, Hailee Disclosed no conflict of interest.
Coleman, Mitchell C Disclosed no conflict of interest.
Coleman, Rhima Disclosed no conflict of interest.
Coles, Mark Disclosed no conflict of interest.
Coles, Zachary Disclosed no conflict of interest.
Colglazier, Kaitlyn Disclosed no conflict of interest.
Colin, Neitzke Disclosed no conflict of interest.
Collier, Christopher D Disclosed no conflict of interest.
Collin, Mattias Disclosed no conflict of interest.
Collins, Jamie Disclosed no conflict of interest.
Collins, John A Disclosed no conflict of interest.
Collins, Joseph Disclosed no conflict of interest.
Collins, Katherine Disclosed no conflict of interest.
Collins, Kelsey Disclosed no conflict of interest.
Collins, Kelsey H Disclosed no conflict of interest.
Collins, Lewis Disclosed no conflict of interest.
Collon, Kevin Disclosed no conflict of interest.
Colone, Kathryn Disclosed no conflict of interest.
Colville, Marshall J Disclosed no conflict of interest.
Comacho, Luisa Disclosed no conflict of interest.
Combs, Aletta Disclosed no conflict of interest.
Commean, Paul Disclosed no conflict of interest.
Como, Matthew Disclosed no conflict of interest.
Comparey, Chris Disclosed no conflict of interest.
Cong, Ting 4: Sustain Surgical Inc. - CEO and co-owner, 9: Sustain Surgical Inc. - CEO.
Cong, Ting 4: Sustain Surgical co-owner, 9: Sustain Surgical co-founder.
Conklin, Tiffany Disclosed no conflict of interest.
Conley, Brian R. 3A: Acumed.
Conley, Caitlin Disclosed no conflict of interest.
Connelly, Amanda Disclosed no conflict of interest.
Connizzo, Brianne Disclosed no conflict of interest.
Connizzo, Brianne K Disclosed no conflict of interest.
Connolly, Rachel Disclosed no conflict of interest.
Connolly, Rachel L Disclosed no conflict of interest.
Connolly, William Disclosed no conflict of interest.
Constant, Caroline Disclosed no conflict of interest.
Contag, Christopher Disclosed no conflict of interest.
cook, cristi 1: Arthrex, conmed, linvatec, mtf, 3B: Arthrex, conmed, linvatec.
Cook, Cristi 1: Arthrex, conmed, linvatec, mtf, 2: Arthrex, conmed, linvatec, mtf, 3B: Arthrex, conmed, linvatec.
Cook, Emily Disclosed no conflict of interest.
Cook, James Disclosed no conflict of interest.
Cook, James L Disclosed no conflict of interest.
Cook, James L. Disclosed no conflict of interest.
Cook, Megan Disclosed no conflict of interest.
Coombs, Dana Disclosed no conflict of interest.
Coomer, Seth Disclosed no conflict of interest.
Cooper, H. John Disclosed no conflict of interest.
Cooper, Herbert 5: Smith and Nephew.
Cooper, Joie Disclosed no conflict of interest.
Cooper, Olive Disclosed no conflict of interest.
Cooperman, Wes Disclosed no conflict of interest.
Copley, Lawson A. B. Disclosed no conflict of interest.
Copp, Elizabeth Disclosed no conflict of interest.
Copp, Elizabeth H ................. Disclosed no conflict of interest.
Coppock, James A ................. Disclosed no conflict of interest.
Corban, Jason ....................... Disclosed no conflict of interest.
Corbascio, Tova ..................... Disclosed no conflict of interest.
Corbeels, Katrien ................... Disclosed no conflict of interest.
Corbin, Elise A ....................... Disclosed no conflict of interest.
Cordero, Kevin E .................... 3A: Stryker, 4: Stryker.
Cordle, Andrew ..................... Disclosed no conflict of interest.
Cornaz, Frédéric .................... Disclosed no conflict of interest.
Cornelia, Reuel ..................... Disclosed no conflict of interest.
Cornelison, Jered ................... Disclosed no conflict of interest.
Cornwall, Roger .................... Disclosed no conflict of interest.
Cororaton, Agnes .................. Disclosed no conflict of interest.
Corps, Kara ........................ Disclosed no conflict of interest.
Corrigan, Patrick .................. Disclosed no conflict of interest.
Cortes, Daniel ...................... Disclosed no conflict of interest.
Costa, Meggin ...................... Disclosed no conflict of interest.
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Costard, Lara ....................... Disclosed no conflict of interest.
Cottingham, Harrison .......... Disclosed no conflict of interest.
Cottrell, Christiana ............... Disclosed no conflict of interest.
Couch, Brandon .................... Disclosed no conflict of interest.
Couchara, Nicholas ............... Disclosed no conflict of interest.
Coulombe, Jennifer ............... Disclosed no conflict of interest.
Coulombe, Jennifer C ............. Disclosed no conflict of interest.
Cousineau, Elsa ................... Disclosed no conflict of interest.
Coutelle, Nino ..................... Disclosed no conflict of interest.
Coutinho de Almeida, Rodrigo .. Disclosed no conflict of interest.
Cowie, Raelene ..................... 6: Invibio, MatOrtho.
Cowie, Raelene M .................. 6: Invibio, MatOrtho.
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<td>1: Smith &amp; Nephew, 3B: Acelity;, LinkBio Corp, Intellijoint Surgical, Inc.; Exactech.</td>
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Crowley, James .......................... Disclosed no conflict of interest.

Croy, Elizabeth .......................... Disclosed no conflict of interest.

Crutcher, James .......................... 3B: Stryker.

Crutcher, James .......................... 3B: Stryker, 7A: Stryker, 8: Journal of Arthroplasty.

Crutcher, James P .......................... 3B: Stryker, 7A: Stryker, 8: Journal of Arthroplasty.

Cruz, Carlos ............................... Disclosed no conflict of interest.

Cruz, Carlos J. ............................. Disclosed no conflict of interest.

Cruz, Jacquelyn P .......................... Disclosed no conflict of interest.

Cruz, Maria ................................. Disclosed no conflict of interest.

Cruz-Garza, Jesus .......................... Disclosed no conflict of interest.

Cryan, Sally-Ann ......................... 5: Aerogen, BioNTech SE.

cvang29@jhu.edu, Cammy ....... Disclosed no conflict of interest.

Cuellar, Jason ................................ 3B: Carestream, Centinel Spine, Cytonics, Nuvasive, Orthofix.

Cuellar, Jason .............................. 5: Carestream, Centinel Spine, Cytonics, Nuvasive, Orthofix.

Cuevas, Melissa ......................... Disclosed no conflict of interest.

Cui, Can .................................. Disclosed no conflict of interest.

Cui, Quanjun ............................... Disclosed no conflict of interest.

Cui, Shangbin ............................. Disclosed no conflict of interest.

Cung, Michelle ............................ Disclosed no conflict of interest.

Cunningham, Gregory ................. 5: NeuroSpine Foundation who coordinate and manage the patient
database receive institutional support: Life Health Care, NuVasive, Signus.

Cunningham, Matthew ............... 4: Sustain Surgical co-owner, 9: Sustain Surgical co-founder.

Cunningham, T. L. ....................... Disclosed no conflict of interest.

Curtin, Caroline ......................... Disclosed no conflict of interest.

Curtis, Hannah R. ....................... Disclosed no conflict of interest.

Cush, Charles T .......................... Disclosed no conflict of interest.

Cuthbert, Andrew S .................... Disclosed no conflict of interest.

Cutler, Holt ............................... Disclosed no conflict of interest.

Czachor, Molly ........................... Disclosed no conflict of interest.

D’Alessio, Jerry ......................... 3A: Stryker.

D’Amico, Sophia R ..................... Disclosed no conflict of interest.

D’Andrea, Christian ................... Disclosed no conflict of interest.

D’Antonio, Nicholas .................. Disclosed no conflict of interest.

D’Antonio, Nicholas D ............... Disclosed no conflict of interest.

D’Erminio, Danielle N ............... Disclosed no conflict of interest.

D’Este, Matteo .......................... Disclosed no conflict of interest.

D’Lima, Darryl .......................... Disclosed no conflict of interest.

D’Amato, Gina .......................... Disclosed no conflict of interest.

Daesety, Vikram ........................ Disclosed no conflict of interest.

Dahlgren, Linda A ..................... Disclosed no conflict of interest.

Dai, Guangchun ....................... Disclosed no conflict of interest.

Dai, Guang-Chun ...................... Disclosed no conflict of interest.

Dai, Huiyong ......................... Disclosed no conflict of interest.

Dai, Zhonghao .......................... Disclosed no conflict of interest.

Dailey, Hannah L ...................... 4: OrthoXel, 5: OrthoXel, 6: OrthoXel, 9: ORS/ISFR.

Daily, Drayton ........................ Disclosed no conflict of interest.

Daire, Gabrielle M ..................... Disclosed no conflict of interest.

Dakin, Stephanie G ................... 5: Novartis, Bristol Myers Squibb.

Dal Fabbro, Giacomo ................. Disclosed no conflict of interest.

Daley, Dane ............................. Disclosed no conflict of interest.

Dallman, Johnathan .................. Disclosed no conflict of interest.

Dalton, Jonathan ...................... Disclosed no conflict of interest.

Dalton, Paul D .......................... Disclosed no conflict of interest.

Damerau, Alexandra .................. Disclosed no conflict of interest.

Damiani, Maurizio ................... Disclosed no conflict of interest.

Damodar, Dhanur ..................... Disclosed no conflict of interest.

Damron, Timothy A ................... Disclosed no conflict of interest.

Damron, Timothy A ................... 7B: JAAOS, 8: JSO, CORR, JOR, TOORTHJ, Medicina, JAAOS.
Damron, Timothy A ....................... 5: BoneSource, Cerament, 7B: JAAOS Deputy Editor Research, 8: CORR, JOR, JSO, BMC-MSK, TOOJ, Medicina.

Dan, Junpei .................................. Disclosed no conflict of interest.

Danalache, Marina .......................... Disclosed no conflict of interest.

Dandu, Navya ............................... Disclosed no conflict of interest.

Dang, Xiaoqian ............................. Disclosed no conflict of interest.

Daniel, Carola .............................. Disclosed no conflict of interest.

Daniel, Cyril .............................. Disclosed no conflict of interest.

Daniel, Wichman ........................... Disclosed no conflict of interest.

Daniels, Ryan .............................. Disclosed no conflict of interest.

Danilskowicz, Richard M ................. Disclosed no conflict of interest.

Danisa, Olumide ............................ Disclosed no conflict of interest.


Danolkowicz, Richard ..................... Disclosed no conflict of interest.

Dao, Christopher Q ........................ Disclosed no conflict of interest.

Darbandi, Azad ............................. Disclosed no conflict of interest.

Darrieutort-Laffite, Christelle .......... Disclosed no conflict of interest.

Darwin, Ethan C ............................ Disclosed no conflict of interest.

Darwish, Oliver A .......................... Disclosed no conflict of interest.

Darwish, Reem .............................. Disclosed no conflict of interest.

Darwish, Sohaib ............................ Disclosed no conflict of interest.

Das, Indranshu ............................. Disclosed no conflict of interest.

Dasa, Vinod ................................. Disclosed no conflict of interest.

Dasa, Vinod ................................. 2: Bioventus, Swiftpath/Pacira, 3B: Bioventus, Myoscience, 4: Myoscience, SIGHT Medical, 5: SKK, Cartiheal, KCI, 7A: Flexion Therapeutics.


Dasgupta, Anouska ........................ 3A: MTF Biologics.

Dauenhauer, Lexia A ....................... Disclosed no conflict of interest.

Daulat, Sohail .............................. Disclosed no conflict of interest.

Daum, Josh ................................. Disclosed no conflict of interest.
Dave, Arpit .......................... *Disclosed no conflict of interest.*

David, Michael .......................... *Disclosed no conflict of interest.*

David, Michael A. .......................... *Disclosed no conflict of interest.*

Davies, Michael .......................... *Disclosed no conflict of interest.*

Davis, Chase T .......................... 3A: NuVasive, 4: NuVasive.

Davis, Clara .......................... *Disclosed no conflict of interest.*

Davis, Mark .......................... 3B: Exactech.

Davis, Zachary G .......................... *Disclosed no conflict of interest.*

Davison-Kerwood, Maxwell .......................... *Disclosed no conflict of interest.*

Dawson, Lindsay A .......................... *Disclosed no conflict of interest.*

Dawud, Lamya’a .......................... *Disclosed no conflict of interest.*

Day, Wesley .......................... *Disclosed no conflict of interest.*

De Bock, Katrien .......................... *Disclosed no conflict of interest.*


De Cesar Netto, Cesar .......................... 3B: Paragon 28.


De Cesar Netto, Cesar .......................... 3B: CurveBeam, 4: CurveBeam.

De Cesar Netto, Cesar .......................... 3B: Paid Consultant for CurveBeam, 4: Stock Holder for CurveBeam.


De Cesar Netto, Cesar .......................... 1: Paragon 28, 3B: Paragon 28, Disior, Medartis, Curvebea, 4: Curvebean, 9: AOFAS.

De Groot, Joseph .......................... *Disclosed no conflict of interest.*

De Groot, Tom M .......................... *Disclosed no conflict of interest.*

De Groot, Tom M .......................... *Disclosed no conflict of interest.*


De Jong, David A .......................... *Disclosed no conflict of interest.*

De Los Santos, Maria .......................... *Disclosed no conflict of interest.*
De Massari, Daniele ..................3A: Stryker, 4: Stryker.
de Mesy Bentley, Karen L ..........Disclosed no conflict of interest.
de Roy, Luisa .........................Disclosed no conflict of interest.
Dean, Michael C .......................Disclosed no conflict of interest.
Dean, Michael D ...................Disclosed no conflict of interest.
Dean, Tameka .........................Disclosed no conflict of interest.
Dean, Tameka C .......................Disclosed no conflict of interest.
Debasitis, Alexandria ...............Disclosed no conflict of interest.
DeBiase, Lucas ........................Disclosed no conflict of interest.
Debski, Richard ......................Disclosed no conflict of interest.
Debski, Richard E ..................Disclosed no conflict of interest.
Deese, John C ........................Disclosed no conflict of interest.
DeFrate, Louis E .....................8: AJSM, JoB, JOR.
DeFrino, Paul .........................5: Tyber Medical.
DeFroda, Steven .....................2: AONA, 7A: Arthrex, 9: AANA, AOSSM.
DeFroda, Steven F ...................2: DJ Orthopaedics, 5: Arthrex, Inc, 8: Arthroscopy, 9: AANA.
Deister, Jake .........................3B: Exactech.
Dela Rueda, Therese ...............Disclosed no conflict of interest.
Delaney, Lauren J ...................Disclosed no conflict of interest.
Delaney, Peter G. Disclosed no conflict of interest.
Delawi, Diyar Disclosed no conflict of interest.
Delclos, Barry Disclosed no conflict of interest.
Delco, Michelle L. Disclosed no conflict of interest.
Della Bella, Elena Disclosed no conflict of interest.
Della Bella, Elena. 8: I am Deputy Editor in Basic Science and Molecular Biology for the Craniomaxillofacial Research & Innovation journal. 9: Member of the ORS SSC committee.
Della Bella, Elena Disclosed no conflict of interest.
Della Fara, Elena Disclosed no conflict of interest.
Dellmore, Barbara Disclosed no conflict of interest.
Deluzio, Kevin Disclosed no conflict of interest.
DeMaio, Christian Disclosed no conflict of interest.
Demidov, Valentin V. Disclosed no conflict of interest.
DeMoya, Christian Disclosed no conflict of interest.
DeMoya, Christian D Disclosed no conflict of interest.
Denagamage, Prabhavi Disclosed no conflict of interest.
DeNapoli, Rachel C Disclosed no conflict of interest.
Denard, Pattrick 3B: Arthrex.
Deng, Jingyao Disclosed no conflict of interest.
Deng, Xianghua Disclosed no conflict of interest.
Denisco, Joseph A Disclosed no conflict of interest.
Dennis, Cydney Disclosed no conflict of interest.
Denton, Kristin Disclosed no conflict of interest.
Denz, Michael Disclosed no conflict of interest.
DePalma, Samuel J .................. Disclosed no conflict of interest.
DePhillips, Jason .................. Disclosed no conflict of interest.
Derr, Tabitha L .................. Disclosed no conflict of interest.
Dervin, Geoffrey .................. 6: Receives institutional support from Depuy Synthes, MicroPort Orthopedics and Zimmer Biomet.
Dervin, Geoffrey .................. Disclosed no conflict of interest.
Derwin, Kathleen .................. Disclosed no conflict of interest.
Desai, Kruti .................. Disclosed no conflict of interest.
Desai, Neehar .................. Disclosed no conflict of interest.
Desai, Salomi .................. Disclosed no conflict of interest.
Desai, Vishal S .................. Disclosed no conflict of interest.
DeSantis, Paul .................. Disclosed no conflict of interest.
Deshpande, Abhishek .................. Disclosed no conflict of interest.
Detels, Kelsey .................. Disclosed no conflict of interest.
Deting, Lin .................. Disclosed no conflict of interest.
Devet, Taylor J .................. Disclosed no conflict of interest.
Devine, Connor C .................. Disclosed no conflict of interest.
Devitt, Aiden .................. Disclosed no conflict of interest.
Devlin, Brenna L .................. Disclosed no conflict of interest.
DeVries Watson, Nicole .................. Disclosed no conflict of interest.
DeWall, Ryan .................. 3A: DePuy Synthes.
Dey Hazra, Maria .................. Disclosed no conflict of interest.
Dey Hazra, Maria E .................. Disclosed no conflict of interest.
Dey Hazra, Rony .................. Disclosed no conflict of interest.
Dey Hazra, Rony-Orijit .................. Disclosed no conflict of interest.
Dey Hazra, Rony-Orijit .................. 6: Arthrex, Inc.
Dey-Hazra, Maria .................. Disclosed no conflict of interest.
Dey-Hazra, Rony .................. Disclosed no conflict of interest.
Deysher, Daniel .................... *Disclosed no conflict of interest.*

Dhodakpar, Meera M ............... 3A: (Richard K. Gershon, M.D. Fund at Yale University School of Medicine, 8: Associate Editor Visual Abstracts North American Spine Society Journal.


Dhodapkar, Meera M ............... 8: Associate Editor Visual Abstracts.

Di Giancamillo, Alessia .......... *Disclosed no conflict of interest.*

Diambou, Ishatou .................. *Disclosed no conflict of interest.*

DiAngelo, Denis ................... *Disclosed no conflict of interest.*

Diaz Hernandez, Martha Elena . *Disclosed no conflict of interest.*

Diaz, Agustin ...................... *Disclosed no conflict of interest.*

Diaz, Allison ...................... *Disclosed no conflict of interest.*

Diaz, Miguel A .................... *Disclosed no conflict of interest.*

Diaz, Roberto ..................... *Disclosed no conflict of interest.*

Diaz-Hernandez, Martha E ....... *Disclosed no conflict of interest.*

Dibbern, Kevin .................... *Disclosed no conflict of interest.*

Dibbern, Kevin N. ................. *Disclosed no conflict of interest.*

Dicker, Marie ..................... *Disclosed no conflict of interest.*

Dicks, Amanda .................... *Disclosed no conflict of interest.*

Dies, Ross ......................... *Disclosed no conflict of interest.*

Dieterich, James D ............... *Disclosed no conflict of interest.*

Dietz, Matthew ................... 3B: Guidepoint Consulting, Heraeus Medical, 3C: Peptilogics, 4: Peptilogics, 5: Heraeus Medical.

Dietz, Matthew J ................. 3B: Guidepoint Consulting, Heraeus Medical, Peptilogics.


Dietz, Paula ....................... *Disclosed no conflict of interest.*


Difiore, Julia ..................... *Disclosed no conflict of interest.*

diFrancesco, Mia R .............. *Disclosed no conflict of interest.*
Dighe, Abhijit .......................... Disclosed no conflict of interest.
DiGiovanni, Christopher .......... Disclosed no conflict of interest.
DiGiovanni, Ryan ...................... Disclosed no conflict of interest.
DiGiovanni, William .................. Disclosed no conflict of interest.
Dilorio, Sarah E ...................... Disclosed no conflict of interest.
Dillabough, Kaitlyn ................. Disclosed no conflict of interest.
Dilley, Julian .......................... Disclosed no conflict of interest.
Dilley, Julian E ....................... Disclosed no conflict of interest.
Dima, Robert ......................... Disclosed no conflict of interest.
Dimitriou, Dimitris .................. Disclosed no conflict of interest.
Dimitrov, Andrea .................... Disclosed no conflict of interest.
Dines, David M ....................... 1: Zimmer Biomet.
Dines, David M ....................... Disclosed no conflict of interest.
Dines, Joshua S ....................... 1: Arthrex, Inc, 3B: Arthrex, Inc.
Dinescu, A. Teodora ................ Disclosed no conflict of interest.
Ding, Jing .............................. Disclosed no conflict of interest.
Ding, Ke ............................... Disclosed no conflict of interest.
Ding, Lei ............................... Disclosed no conflict of interest.
Ding, Xinchun .......................... Disclosed no conflict of interest.
Ding, Yue .............................. Disclosed no conflict of interest.
Dinh, Ethan ............................ Disclosed no conflict of interest.
Disch, Alexander C .................. Disclosed no conflict of interest.
DiStefano, Fabio ..................... Disclosed no conflict of interest.
DiStefano, Michael S ............... Disclosed no conflict of interest.
Distler, Oliver ........................ Disclosed no conflict of interest.
Dixon, Damion T ..................... Disclosed no conflict of interest.
Dixon, James .......................... Disclosed no conflict of interest.
Doan, Kent ............................ Disclosed no conflict of interest.
Dobransky, Simon .................. *Disclosed no conflict of interest.*

Docaj, Anxhela.................... *Disclosed no conflict of interest.*

Dodabele, Avirath .................. *Disclosed no conflict of interest.*

Dodd, Andrew E.................... *Disclosed no conflict of interest.*

Dodge, George....................... *Disclosed no conflict of interest.*

Dodge, George R.................... *Disclosed no conflict of interest.*

Dodo, Yusuke........................ *Disclosed no conflict of interest.*

Dodson, Christopher .............. *Disclosed no conflict of interest.*

Does, Mark.......................... *Disclosed no conflict of interest.*

Dogru, Sedat......................... *Disclosed no conflict of interest.*

Doherty, David...................... *Disclosed no conflict of interest.*

Doherty, David B ................... *Disclosed no conflict of interest.*

Dokmeci, Mehmet................... *Disclosed no conflict of interest.*


Dombrowski, Nicholas .......... *Disclosed no conflict of interest.*

Domenighetti, Andrea (Andy)... *Disclosed no conflict of interest.*

Domingue, Grayson................ *Disclosed no conflict of interest.*

Dompor, Alexis..................... *Disclosed no conflict of interest.*

Donahue, Henry..................... *Disclosed no conflict of interest.*

Donahue, Henry J................... *Disclosed no conflict of interest.*

Donahue, Seth....................... *Disclosed no conflict of interest.*

Donahue, Seth W.................... *Disclosed no conflict of interest.*

Donaldson III, William F ......... *Disclosed no conflict of interest.*

Donaldson, William............... *Disclosed no conflict of interest.*

Donaldson, William F............... *Disclosed no conflict of interest.*

Dong, Hui.......................... *Disclosed no conflict of interest.*

Dong, Neil......................... *Disclosed no conflict of interest.*
Dong, Qing .......................... Disclosed no conflict of interest.
Dong, Yufeng .......................... Disclosed no conflict of interest.
Donnelly, Emma ....................... Disclosed no conflict of interest.
Donnelly, Eve .......................... Disclosed no conflict of interest.
Donnelly, Thomas ...................... Disclosed no conflict of interest.
Donnelly, William ..................... 3C: Stryker.
Donneys, Alex .......................... Disclosed no conflict of interest.
Donneys, Alexis ....................... Disclosed no conflict of interest.
Dooley, Mason ......................... Disclosed no conflict of interest.
Dorich, Jenny M ....................... Disclosed no conflict of interest.
Dornan, Grant ......................... Disclosed no conflict of interest.
Dornan, Grant J ....................... Disclosed no conflict of interest.
Dorobek, Tyler R ...................... Disclosed no conflict of interest.
Doty, Stephan ......................... Disclosed no conflict of interest.
Doty, Stephen B ....................... Disclosed no conflict of interest.
Dow, Steven ......................... Disclosed no conflict of interest.
Dowley, Kieran S ..................... Disclosed no conflict of interest.
Downer, Akeem ....................... 3A: Stryker, 4: Stryker.
Doyle, Erica .......................... Disclosed no conflict of interest.
Drain, Nicholas ....................... Disclosed no conflict of interest.
Drain, Nicholas P ..................... Disclosed no conflict of interest.
Drain, Nicholas P ..................... Disclosed no conflict of interest.
Dreese, James C ....................... Disclosed no conflict of interest.
Dreiner, Maren ....................... Disclosed no conflict of interest.
Driscoll, Daniel A .................... Disclosed no conflict of interest.
Drissi, Hicham ....................... Disclosed no conflict of interest.
Drum, David L ....................... Disclosed no conflict of interest.
Du, Dajiang .......................... Disclosed no conflict of interest.
Du, Jing .............................. Disclosed no conflict of interest.
Dua, Rupak .......................... Disclosed no conflict of interest.
Duan, Zhenfeng ......................*Disclosed no conflict of interest.*
Dubacher, Nicolo ......................*Disclosed no conflict of interest.*
Dubard, Philippe ......................3A: Blue-Ortho.
Dubey, Mudit ......................*Disclosed no conflict of interest.*
DuBose, Matthew ......................*Disclosed no conflict of interest.*
Ducker, William D ......................*Disclosed no conflict of interest.*
Duda, Georg ......................*Disclosed no conflict of interest.*
Dudakovic, Amel ......................*Disclosed no conflict of interest.*
Dudeck, Anne ......................*Disclosed no conflict of interest.*
Dudli, Stefan ......................*Disclosed no conflict of interest.*
Duerr, Timothy ......................*Disclosed no conflict of interest.*
Duey, Akiko H ......................*Disclosed no conflict of interest.*
Duffy, Michael P. ......................*Disclosed no conflict of interest.*
Duffy, Paul J ......................4: Tactile Orthopaedics.
Dufour, Alyssa B ......................*Disclosed no conflict of interest.*
Duke, Victoria ......................*Disclosed no conflict of interest.*
Duke, Victoria R ......................*Disclosed no conflict of interest.*
Dulac, Martin ......................*Disclosed no conflict of interest.*
Dumas, Alexandra ......................*Disclosed no conflict of interest.*
Dun, Shouchen ......................3A: DePuy Synthes Joint Reconstruction.
Dunbar, Michael ......................3A: Nova Scotia Health Authority, 3B: Stryker Orthopaedics, 4: Stryker Orthopaedics.
Dunbar, Michael ......................3B: Paid consultant.
Dunham, Chelsey L ......................*Disclosed no conflict of interest.*
Dunivan, Sarah ......................*Disclosed no conflict of interest.*
Dunivan, Sarah K ......................*Disclosed no conflict of interest.*
Dunn, Chris M ......................*Disclosed no conflict of interest.*
Dunn, Jake ......................*Disclosed no conflict of interest.*
Dunne, Nicholas .......................... Disclosed no conflict of interest.
Dunne, Nicholas J .......................... Disclosed no conflict of interest.
Dunning, Hans ............................ Disclosed no conflict of interest.
Duong, Andrew ............................ Disclosed no conflict of interest.
Dupre, Derrick ............................. 3B: CoreLink.
Duque, Edie ................................. Disclosed no conflict of interest.
Durante, Stefano ............................ Disclosed no conflict of interest.
Dutta, Abir ................................. Disclosed no conflict of interest.
Dutta, Poorna .............................. Disclosed no conflict of interest.
Duvall, Craig ............................... Disclosed no conflict of interest.
Duvall, Craig L ............................. Disclosed no conflict of interest.
Dy, Christopher J .......................... 2: Johnson and Johnson, 5: Sonex Healthcare, Checkpoint Surgical, 8: HSS Journal, 9: American Orthopaedic Association, AAOS, ASSH.
Dy, Christopher J. .......................... 2: Johnson and Johnson, 5: Sonex Healthcare, Checkpoint Surgical, 8: HSS Journal, 9: American Orthopaedic Association, AAOS, ASSH.
Dyer, Olivia ................................. Disclosed no conflict of interest.
Dyment, Nathaniel ........................... Disclosed no conflict of interest.
Dyment, Nathaniel A ....................... Disclosed no conflict of interest.
Dziesinski, Lucas ........................... Disclosed no conflict of interest.
Eapen, Paul T ............................... Disclosed no conflict of interest.
Easley, Jeremiah ............................ Disclosed no conflict of interest.
Easley, Jeremiah ............................ 5: receive research support as principal investigator from medical-related companies.
Easley, Jeremiah T .......................... Disclosed no conflict of interest.
Easson, Garrett ............................. Disclosed no conflict of interest.
Easson, Garrett W.D. ....................... Disclosed no conflict of interest.
Eastburn, Emily ............................ Disclosed no conflict of interest.
Eastman, Jonathan ........................ 1: Osteocentric, 3B: Globus, Stryker.
Easton, Sarah .............................. Disclosed no conflict of interest.
Eaton, Koco ................................. Disclosed no conflict of interest.
Eatough, Zachary J ....................... Disclosed no conflict of interest.
Ebata, Taku .................................................................. Disclosed no conflict of interest.
Eberlin, Christopher T........................................ Disclosed no conflict of interest.
Eberson, Jacob .......................................................... Disclosed no conflict of interest.
Ebetino, Frank H. .................................................. 3A: BioVinc.
Ebramzadeh, Edward ........................................ 3B: Zimmer Biomet, 5: Depuy Synthes, 8: Hip Society.
Ebramzadeh, Edward ........................................ Disclosed no conflict of interest.
Ebru, Oral .................................................................. Disclosed no conflict of interest.
Ecklund, Kirsten ...................................................... Disclosed no conflict of interest.
Economopoulos, Kostas .................................. Disclosed no conflict of interest.
Eda, Yusuke ........................................................... Disclosed no conflict of interest.
Edelstein, Alexander I ........................................ Disclosed no conflict of interest.
Edwards, John R .................................................... Disclosed no conflict of interest.
Edwards, Sarah ...................................................... Disclosed no conflict of interest.
Edwards, W. Brent .............................................. Disclosed no conflict of interest.
Eekhoff, Jeremy D ................................................ Disclosed no conflict of interest.
Egawa, Satoru .......................................................... Disclosed no conflict of interest.
Eghan-Acquah, Emmanuel ................................ Disclosed no conflict of interest.
Eglauf, Janick .......................................................... Disclosed no conflict of interest.
Egli, Fabian .............................................................. Disclosed no conflict of interest.
Ehrhart, Nicole ........................................................ Disclosed no conflict of interest.
Eichholz, Kian F ..................................................... Disclosed no conflict of interest.
Eichinger, Josef ....................................................... Disclosed no conflict of interest.
Einfeldt, Ann-Kathrin ........................................ Disclosed no conflict of interest.
Eisenberg, Joshua M ........................................ Disclosed no conflict of interest.
Eisner, Zachary J ..................................................... Disclosed no conflict of interest.
El Daou, Hadi .......................................................... Disclosed no conflict of interest.
Elaydi, Ali ............................................................... Disclosed no conflict of interest.
Elbarbary, Reyad ..................................................... Disclosed no conflict of interest.
Elbarbary, Reyad A .................................................. Disclosed no conflict of interest.
Elbarbary, Reyad A. .................................................. Disclosed no conflict of interest.
Elfar, John ..................................*Disclosed no conflict of interest.*
Elhabian, Shireen Y .......................*Disclosed no conflict of interest.*
Eli, Schmidt .................................*Disclosed no conflict of interest.*
Elias, John ..................................*Disclosed no conflict of interest.*
Elias, John J ..................................*Disclosed no conflict of interest.*
Elias, Tristan J ...............................*Disclosed no conflict of interest.*
Eliasberg, Claire ......................... *Disclosed no conflict of interest.*
Elkashif, Ahmed ......................... *Disclosed no conflict of interest.*
Elkhouly, Khaled ......................... *Disclosed no conflict of interest.*
Elkins, Jacob ............................... 3B: Depuy, 5: Depuy, 8: Journal of Arthroplasty.
Elkins, Jacob ............................... 5: Jacob Elkins receives research support from DePuy Synthes, 8: Jacob Elkins is an editor for Journal of Arthroplasty.
Elkins, Jacob ............................... 5: Jacob Elkins receives research support from DePuy Synthes (Raynham, MA, U.S), 8: Jacob Elkins is an editor for Journal of Arthroplasty.
Elkins, Jacob M .......................... 5: Research Support from Depuy Synthes, 8: Editorial Board for Journal of Arthroplasty.
Ellerby, Lisa M ......................... *Disclosed no conflict of interest.*
Ellingson, Arin M .......................... 5: Medtronic.
Elliott, Dawn ......................... *Disclosed no conflict of interest.*
Elliott, Dawn M ......................... *Disclosed no conflict of interest.*
Elliott, Jonathan T ......................... *Disclosed no conflict of interest.*
Elliott, Patrick ......................... *Disclosed no conflict of interest.*
Ellis, Olivia ................................*Disclosed no conflict of interest.*
Ellythy, Suhaib M ....................... *Disclosed no conflict of interest.*
Elmasry, Shady ......................... *Disclosed no conflict of interest.*
Elquist, Aline ............................. 3A: Aline Elquist, 4: Aline Elquist.
Elwell, Josie ............................. 3A: Exactech, Inc.
Elwell, Josie A .......................... 3A: Exactech, Inc.
Ely, Erica V ............................... *Disclosed no conflict of interest.*
Ely, Erica V. ..........................Disclosed no conflict of interest.
Emara, Ahmed ........................Disclosed no conflict of interest.
Emenim, Chinonso E ..................Disclosed no conflict of interest.
Emerzian, Shannon R ...............Disclosed no conflict of interest.
ENAMI, HIDEAKI ......................Disclosed no conflict of interest.
Endersby, Kevin ......................Disclosed no conflict of interest.
Endo, Takeshi ........................Disclosed no conflict of interest.
Endo, Tsutomu .........................Disclosed no conflict of interest.
Eng, Emma ............................Disclosed no conflict of interest.
Eng, Tracy .............................Disclosed no conflict of interest.
Engebretsen, Lars ....................1: Arthrex.
Engellau, Jacob ......................Disclosed no conflict of interest.
Engiles, Julie ..........................Disclosed no conflict of interest.
Englander, Zoe A .....................8: Journal of Biomechanics.
Englander, Zoë A .....................8: Journal of Biomechanics.
Engler, Ian .............................Disclosed no conflict of interest.
Englund, Martin ......................Disclosed no conflict of interest.
Englund, Martin ......................9: President-elect of OARSI.
Enomoto, Saaya ......................Disclosed no conflict of interest.
Enomoto-Iwamoto, Motomi .........Disclosed no conflict of interest.
Enos, Jake S ...........................Disclosed no conflict of interest.
Enos, Jake S .........................Disclosed no conflict of interest.
Enseki, Keelan .......................Disclosed no conflict of interest.
Entezari, Bahar ......................Disclosed no conflict of interest.
Entezari, Vahid ......................Disclosed no conflict of interest.
Entezari, Vahid ......................3B: DJO, 5: DJO.
Epasto, Gabriella ......................Disclosed no conflict of interest.
Ephron, Christopher ................Disclosed no conflict of interest.
Eppell, Steven .......................Disclosed no conflict of interest.
Epsley, Scott .........................Disclosed no conflict of interest.
Epure, Laura..................................Disclosed no conflict of interest.
Erdemir, Ahmet ..................................Disclosed no conflict of interest.
Erdogan, Ayten E..................................Disclosed no conflict of interest.
Erdogan, Ayten E..................................Disclosed no conflict of interest.
Erez, Orry..................................Disclosed no conflict of interest.
Erlich, Emma..................................Disclosed no conflict of interest.
Ernst, Jason..................................Disclosed no conflict of interest.
Ernst, Manuela..........................Disclosed no conflict of interest.
Erslan, Erik E..........................Disclosed no conflict of interest.
Erwin, Daniel..........................Disclosed no conflict of interest.
Eskelinen, Atte..........................Disclosed no conflict of interest.
Esmaeili, Ehsan..........................Disclosed no conflict of interest.
Espinoza Orias, Alejandro...........Disclosed no conflict of interest.
Espinoza Orias, Alejandro...........5: Stryker.
Espinoza Orias, Alejandro A.......5: NIH.
Espinoza Orias, Alejandro A.......5: Stryker, NIH.
Esposito, Alessandra.................9: I serve as committee member of ORS WLF.
Esposito, Christina..................3A: Stryker, 4: Stryker.
Esposito, John G..........................Disclosed no conflict of interest.
Esrafilian, Amir..........................Disclosed no conflict of interest.
Essien, Edidiong..........................Disclosed no conflict of interest.
Eswaran, Sanju P..........................Disclosed no conflict of interest.
Ettinger, Max..........................Disclosed no conflict of interest.
EunJin, Lee..........................Disclosed no conflict of interest.
Eustace, Abigail..........................Disclosed no conflict of interest.
Evans, Mary Kate..........................Disclosed no conflict of interest.
Evans, Rachel..........................Disclosed no conflict of interest.
Evans, Thos..........................Disclosed no conflict of interest.
Evans, Thos A..........................Disclosed no conflict of interest.
Evashwick-Rogler, Thomas Disclosed no conflict of interest.
Evenski, Andrea Disclosed no conflict of interest.
Everist, Brian Disclosed no conflict of interest.
Evers, Bret Disclosed no conflict of interest.
Evseenko, Denis Disclosed no conflict of interest.
Ezeanyika, Chukwunweike N Disclosed no conflict of interest.
F. Santos, Gilmar Disclosed no conflict of interest.
Faber, Kenneth Exactech, 3B: Exactech.
Fadial, Eloise Disclosed no conflict of interest.
Fahey, Megan J Disclosed no conflict of interest.
Fahy, Noel Disclosed no conflict of interest.
Fainor, Matthew Disclosed no conflict of interest.
Faisal, Tanvir Disclosed no conflict of interest.
Faizan, Ahmad Stryker, 4: Stryker.
Falck, Alaina L Disclosed no conflict of interest.
Falconer, Robert Disclosed no conflict of interest.
FAN, CHEN-MING Disclosed no conflict of interest.
Fan, Hongming Disclosed no conflict of interest.
Fan, Mingyue Disclosed no conflict of interest.
Fan, Song Disclosed no conflict of interest.
Fan, Wen Exactech.
Fan, Winnie Disclosed no conflict of interest.
Fan, Yingfang Disclosed no conflict of interest.
Fang, Angela Disclosed no conflict of interest.
Fang, Chih-Hsiang Disclosed no conflict of interest.
Fang, Fei Disclosed no conflict of interest.
Fang, Jiankang Disclosed no conflict of interest.
Fang, Liang .......................... Disclosed no conflict of interest.
Fang, Samuel .......................... 3A: Enovis.
Fanjaniaina Andriamifidy, Henintsoa Disclosed no conflict of interest.
Fanjaniaina, Henintsoa .......................... Disclosed no conflict of interest.
Fantini Pagani, Cynthia .......................... Disclosed no conflict of interest.
Farach-Carson, Mary C .......................... Disclosed no conflict of interest.
Farah, Ghassan .......................... Disclosed no conflict of interest.
Farajj, Amir .......................... Disclosed no conflict of interest.
Farber, Charles .......................... Disclosed no conflict of interest.
Farber, Charles R .......................... Disclosed no conflict of interest.
Farino, Dominick O .......................... Disclosed no conflict of interest.
Farmer, Brooke .......................... Disclosed no conflict of interest.
Farmer, Dennis .......................... Disclosed no conflict of interest.
Farra, Yasmeen .......................... Disclosed no conflict of interest.
Farrar, Nicholas .......................... Disclosed no conflict of interest.
Farrell, Easton .......................... Disclosed no conflict of interest.
Farrell, Easton C .......................... Disclosed no conflict of interest.
Farrell, Kaitlin M .......................... Disclosed no conflict of interest.
Farrow, Lutul .......................... Disclosed no conflict of interest.
Farrow, Lutul D .......................... Disclosed no conflict of interest.
Farshad, Mazda .......................... Disclosed no conflict of interest.
Farshad-Amacker, Nadja .......................... Disclosed no conflict of interest.
Fassler, Richelle .......................... Disclosed no conflict of interest.
Fatemi, Hannah .......................... 3A: Enovis.
Fattah, Sarinj .......................... Disclosed no conflict of interest.
Fattor, Jill .......................... Disclosed no conflict of interest.
Fayed, Aly .......................... Disclosed no conflict of interest.
Fayed, Omnia .......................... Disclosed no conflict of interest.
Fearing, Bailey ........................... Disclosed no conflict of interest.
Fedor, Caroline N. ...................... Disclosed no conflict of interest.
Feeley, Brian ........................... Disclosed no conflict of interest.
Feeley, Brian T ........................... Disclosed no conflict of interest.
Feeley, Brian T. ......................... Disclosed no conflict of interest.
Feeley, Leena ........................... Disclosed no conflict of interest.
Felgner, Camden ...................... Disclosed no conflict of interest.
Felix-Ilemhenbhio, Favour ........... Disclosed no conflict of interest.
Feltham, Tyler ........................... Disclosed no conflict of interest.
Femino, Elise L ........................ Disclosed no conflict of interest.
Feng, Lu .................................. Disclosed no conflict of interest.
Feng, Meng .............................. Disclosed no conflict of interest.
Fenn, Thomas W. ...................... Disclosed no conflict of interest.
Fenstad, Anne Marie ................. Disclosed no conflict of interest.
Ferguson, Ellie ......................... Disclosed no conflict of interest.
Ferguson, Stephen ..................... Disclosed no conflict of interest.
Ferguson, Virginia .................... Disclosed no conflict of interest.
Ferguson, Virginia L .................. Disclosed no conflict of interest.
Ferguson-Dryden, Caroline ......... Disclosed no conflict of interest.
Fermor, Hazel ........................... Disclosed no conflict of interest.
Fermor, Hazel L ........................ Disclosed no conflict of interest.
Fernandes, Aysel A ................... Disclosed no conflict of interest.
Fernandes, Renan ..................... Disclosed no conflict of interest.
Fernandes, Russell J ................... Disclosed no conflict of interest.
Ferrari, Elisabetta .................... 3A: Employed by DePuy International Ltd.
Ferreira, Cole ......................... Disclosed no conflict of interest.
Ferreira, Elisabeth .................... Disclosed no conflict of interest.
Ferrone, Soldano ...................... Disclosed no conflict of interest.
Fiani, Nadine .......................... Disclosed no conflict of interest.
Fidai, Alikhan ......................... Disclosed no conflict of interest.
Fields, Aaron .............................. Disclosed no conflict of interest.
Fields, Aaron J .............................. Disclosed no conflict of interest.
Figueroa, Gerardo .............................. Disclosed no conflict of interest.
Felicite, Taylor .............................. Disclosed no conflict of interest.
Filip, Alex B .............................. Disclosed no conflict of interest.
Findeisen, Lisa .............................. Disclosed no conflict of interest.
Findlay, David M .............................. Disclosed no conflict of interest.
Fine, Jeffrey Robert .............................. Disclosed no conflict of interest.
Finke, August .............................. Disclosed no conflict of interest.
Finlay, Andrea .............................. Disclosed no conflict of interest.
Finnila, Mikko .............................. Disclosed no conflict of interest.
Finnilä, Mikko AJ .............................. Disclosed no conflict of interest.
Firooz, Saman .............................. Disclosed no conflict of interest.
Fischenich, Kristine .............................. Disclosed no conflict of interest.
Fischer, Arielle G .............................. Disclosed no conflict of interest.
Fischer, Nicholas .............................. Disclosed no conflict of interest.
Fischer, Richard .............................. Disclosed no conflict of interest.
Fischer, Verena .............................. Disclosed no conflict of interest.
Fisher, Brandon .............................. Disclosed no conflict of interest.
Fisher, John .............................. Disclosed no conflict of interest.
Fisher, Mark .............................. Disclosed no conflict of interest.
Fisher, Matthew .............................. Disclosed no conflict of interest.
Fisher, Matthew B .............................. Disclosed no conflict of interest.
Fisher, Matthew B. .............................. Disclosed no conflict of interest.
Fitzpatrick, Clare .............................. 4: Ortho Haus LLC.
Fitzpatrick, Clare .............................. 4: Ortho Haus, LLC.
Fitzpatrick, Clare .............................. Disclosed no conflict of interest.
Fitzpatrick, Clare K .............................. 4: Ortho Haus, LLC.
Flaherty, Alexandra .............................. Disclosed no conflict of interest.
Flaherty, Alexandra .............................. 3B: Journal of Medical Insight (part-time member of editorial team)
Flannery, Sean Disclosed no conflict of interest.
Flannery, Sean W Disclosed no conflict of interest.
Flaveny, Colin A Disclosed no conflict of interest.
Fleischer, Mackenzie M Disclosed no conflict of interest.
Fleming, Braden Disclosed no conflict of interest.
Fleps, Ingmar Disclosed no conflict of interest.
Fletcher, Bryce Disclosed no conflict of interest.
Fletcher, Jesse Disclosed no conflict of interest.
Flick, Matthew Disclosed no conflict of interest.
Flick, Matthew J Disclosed no conflict of interest.
Florea, Cristina Disclosed no conflict of interest.
Flores, Sergio E Disclosed no conflict of interest.
Fluckey, James Disclosed no conflict of interest.
Focarete, Maria Letizia Disclosed no conflict of interest.
Fogarty, Natalie Disclosed no conflict of interest.
Fogarty, Natalie L Disclosed no conflict of interest.
Fok Lau, Shierly Disclosed no conflict of interest.
Foley, Aidan Disclosed no conflict of interest.
Foley, Joslyn Disclosed no conflict of interest.
Fong, Scott Disclosed no conflict of interest.
Foody, Jacqueline N Disclosed no conflict of interest.
Ford, Marcus C.................................. Disclosed no conflict of interest.

Forester, Celeste E.............................. Disclosed no conflict of interest.

Fornari, Eric F.................................. 3B: GE Health Care.

Forrister, David Z.............................. Disclosed no conflict of interest.


Forsythe, Brian............................... 3B: Smith & Nephew, Stryker, 4: iBrainTech, Jace Medical, Sparta Biopharma, 5: Arthrex, Inc, Smith & Nephew, Stryker, 7B: Elsevier, 8: VJSM, 9: AOSSM.

Fortin, Aiyana................................ Disclosed no conflict of interest.

Fortin, Maryse................................. Disclosed no conflict of interest.

Fossum, Brad.................................. Disclosed no conflict of interest.

Fossum, Bradley.............................. Disclosed no conflict of interest.

Foster, Lukas................................. Disclosed no conflict of interest.

Foster, Michael.............................. Disclosed no conflict of interest.

Foster, Timothy.............................. Disclosed no conflict of interest.

Foureau, David............................... Disclosed no conflict of interest.

Fourman, Mitchell........................... Disclosed no conflict of interest.

Fox, Edward J............................... Disclosed no conflict of interest.

Fox, Jake..................................... Disclosed no conflict of interest.

Fox, Michael................................. Disclosed no conflict of interest.

Foy, Michael................................. Disclosed no conflict of interest.

Fradette, Julie.............................. Disclosed no conflict of interest.

Fragoulis, Athanassios...................... Disclosed no conflict of interest.

Frank, Andre................................. Disclosed no conflict of interest.

Frank, David................................. Disclosed no conflict of interest.

Frank, Ella................................... Disclosed no conflict of interest.

Frank, Joseph A.............................. Disclosed no conflict of interest.

Frankel, Hannah.......................... 3A: Hannah Frankel, 4: Hannah Frankel.

Frankenburg Shewman, Elizabeth........ Disclosed no conflict of interest.

Frankston, Naomi ......................Disclosed no conflict of interest.
Franseen, Faith M ......................Disclosed no conflict of interest.
Frantz, Lisa M ......................Disclosed no conflict of interest.
Fredericks, Douglas ..................Disclosed no conflict of interest.
Freedhand, Adam M ..................1: DJO, 3B: Stryker Surgical Education; DJO.
Freedman, Benjamin R ..............Disclosed no conflict of interest.
Freeman, Robert ..................3A: Depuy Synthes.
Freeman, Theresa ..................Disclosed no conflict of interest.
Freeman, Theresa A .................Disclosed no conflict of interest.
Freligh, Andre ..................3A: Stryker Orthopaedics, 4: Stryker Orthopaedics.
Freligh, Andre ..................3A: Paid Employee of Stryker, 4: Stock or stock options in Stryker.
Freligh, Andre ..................3A: Stryker employee, 4: Stock or stock options in Stryker.
Frey Rubio, David A ...............Disclosed no conflict of interest.
Friedman, Michael .............Disclosed no conflict of interest.
Friedman, Michael A ..........Disclosed no conflict of interest.
Friedman, Richard ................3B: Exactech, Inc.
Friess, Darin M ..................Disclosed no conflict of interest.
Frondelius, Tuomas ...............Disclosed no conflict of interest.
Frondorf, Brian ..................Disclosed no conflict of interest.
Frost, Jillian ..................Disclosed no conflict of interest.
Frost, Livia ..................Disclosed no conflict of interest.
Fu, Chengcheng ..................Disclosed no conflict of interest.
Fu, Henry ..................2: Smith & Nephew, Stryker, 3B: Stryker.
Fu, Michael ..................Disclosed no conflict of interest.
Fu, Michael C ...............Disclosed no conflict of interest.
Fu, Wenyu ..................Disclosed no conflict of interest.
Fugazzola, Maria C. Disclosed no conflict of interest.
Fugazzola, Maria C. Disclosed no conflict of interest.
Fujie, Hiromichi Disclosed no conflict of interest.
Fujii, Takayuki Disclosed no conflict of interest.
Fujikawa, Yuki Disclosed no conflict of interest.
Fujimoto, Tara N. Disclosed no conflict of interest.
Fujino, Keitaro Disclosed no conflict of interest.
Fujisawa, Takahiro Disclosed no conflict of interest.
Fujisawa, Yuki Disclosed no conflict of interest.
Fujita, Daisuke Disclosed no conflict of interest.
Fujita, Masahiro Disclosed no conflict of interest.
Fujita, Shintaro Disclosed no conflict of interest.
Fujita, Shinya Disclosed no conflict of interest.
fujiwara, shuichi Disclosed no conflict of interest.
Fujiwara, Tatsuhiko Disclosed no conflict of interest.
Fujiwara, Tomohiro Disclosed no conflict of interest.
Fujiwara, Tomonhiro Disclosed no conflict of interest.
Fukai, Fumio Disclosed no conflict of interest.
Fukase, Naomasa Disclosed no conflict of interest.
Fukuda, Hideaki Disclosed no conflict of interest.
Fukuhara, Daisuke Disclosed no conflict of interest.
Fukui, Daisuke Disclosed no conflict of interest.
Fukui, Tomoaki Disclosed no conflict of interest.
Fukushima, Hiroaki Disclosed no conflict of interest.
Fullwood, David T. 4: Sensable Technologies.
Fulton, Travis Disclosed no conflict of interest.
Fumihiro, Nishimura Disclosed no conflict of interest.
Funahashi, Hiroto Disclosed no conflict of interest.
Fung, Ashley K. Disclosed no conflict of interest.
Fung, Stephanie L. Disclosed no conflict of interest.
Funk, Graham A. Disclosed no conflict of interest.
Furukawa, Jun-ichi Disclosed no conflict of interest.
Furukawa, Takahiro Disclosed no conflict of interest.
Furumatsu, Takayuki Disclosed no conflict of interest.
Furuta, Yoshihiko Disclosed no conflict of interest.
Fusagawa, Hiroyori Disclosed no conflict of interest.
Gabel, Harrison Disclosed no conflict of interest.
Gaber, Timo Disclosed no conflict of interest.
Gacaferi, Hamez Disclosed no conflict of interest.
Gadomski, Benjamin Disclosed no conflict of interest.
Gadomski, Benjamin C 5: receive research support as principal investigator from medical-related companies.
Gadomski, Benjamin C Disclosed no conflict of interest.
Gaff, Jessica Disclosed no conflict of interest.
Gaffney, Brecca Disclosed no conflict of interest.
Gagnon, Stéphane Disclosed no conflict of interest.
Gaj, Sibaji Disclosed no conflict of interest.
Galal, Youssef Disclosed no conflict of interest.
Gale, Lucie 3A: Employed by DePuy International Ltd.
Gale, Tom Disclosed no conflict of interest.
Galina, Jesse M. Disclosed no conflict of interest.
Galivanche, Anoop R Disclosed no conflict of interest.
Gall, Ken 3B: restor3D.
Gallage Dona, Chethana Disclosed no conflict of interest.
Gallaway, Glynn E Disclosed no conflict of interest.
Galley, Alexandre Disclosed no conflict of interest.
Galley, Alexandre 6: Stryker.
Gallo, Matthew Disclosed no conflict of interest.
Gallo, Matthew C Disclosed no conflict of interest.
Gallo, Matthew C Disclosed no conflict of interest.
Galloway, Chad A. ..................... Disclosed no conflict of interest.
Galloway, Jasmine ..................... Disclosed no conflict of interest.
Galper, Andrey ......................... Disclosed no conflict of interest.
Gamboa, Goncalo ....................... Disclosed no conflict of interest.
Gan, Weijie ............................. Disclosed no conflict of interest.
Gangi, Lianna ............................ Disclosed no conflict of interest.
Gangi, Lianna R ......................... Disclosed no conflict of interest.
Ganji, Elahe ............................. Disclosed no conflict of interest.
Gannon, Emmett ........................ Disclosed no conflict of interest.
Gannon, Emmett J ...................... Disclosed no conflict of interest.
Ganokraj, Phob ......................... Disclosed no conflict of interest.
Ganokroj, Phob ......................... Disclosed no conflict of interest.
Gansau, Jennifer ....................... Disclosed no conflict of interest.
Gantenbein, Benjamin ................ Disclosed no conflict of interest.
Gao, Chan ................................ Disclosed no conflict of interest.
Gao, Charis ............................. Disclosed no conflict of interest.
Gao, Junjie ............................. Disclosed no conflict of interest.
Gao, Kenneth ........................... Disclosed no conflict of interest.
Gao, Qi .................................. Disclosed no conflict of interest.
Gao, Xueqin ............................. Disclosed no conflict of interest.
Garceau, Simon ....................... Disclosed no conflict of interest.
Garcia Fleury, Ignacio ............... Disclosed no conflict of interest.
Garcia, Alexander ..................... Disclosed no conflict of interest.
Garcia, Andy L ......................... Disclosed no conflict of interest.
Garcia, Benjamin A .................. Disclosed no conflict of interest.
Garcia, Carolina ....................... Disclosed no conflict of interest.
Garcia, Dioscaris ...................... 4: BI Medical, LLC.
Garcia, Dioscaris ...................... 4: owns equity in BI Medical LLC.
Garcia, Jose ............................. Disclosed no conflict of interest.
García, José J .......................... Disclosed no conflict of interest.
Garcia, Mason .................................. Disclosed no conflict of interest.
Garcia, Steven .................................. Disclosed no conflict of interest.
Garcia, Steven M .............................. Disclosed no conflict of interest.
Garcia-Nolan, Tanya .......................... Disclosed no conflict of interest.
Gardner, Chris ................................. 3A: DePuy Synthes Joint Reconstruction.
Gardner, Michael .............................. 3B: SI-Bone.
Gardner, Michael J ............................ Disclosed no conflict of interest.
Gardner, Thomas R............................ Disclosed no conflict of interest.
Garfinkel, Alec ................................. Disclosed no conflict of interest.
Garg, Ankur ..................................... 3B: Moximed, Teleflex.
Garg, Bhavuk ................................... 8: Serves on the board of various orthopaedic publication,
                                            9: Serves on the board of various orthopaedic professional society.
Garg, Koyal ..................................... 4: GenAssist, Inc. is developing products related to the research
                                            described in this abstract. KG has equity interest in GenAssist, Inc., and serves on
                                            the company’s scientific advisory board.
Garg, Koyal ..................................... 4: stock.
Garlapaty, Ashwin .............................. Disclosed no conflict of interest.
Garner, Brian ................................. Disclosed no conflict of interest.
Garriga, Gustavo .............................. Disclosed no conflict of interest.
Garrigues, Grant .............................. 2: DJ Orthopaedics, Tornier, 3B: Additive Orthopaedics, DJ
                                            Orthopaedics, Mitek, Tornier, 4: CultivateMD, Genesys, Patient IQ, ROM 3, 6: Arthrex,
                                            Inc., DJ Orthopaedics, SouthTech, 7A: DJ Orthopaedics, Tornier, 8: JSES, Techniques in
                                            Orthopaedics, 9: ASES, AANA.
Garrigues, Grant .............................. Disclosed no conflict of interest.
Garrigues, Grant E ........................... 3B: Additive Orthopaedics, SouthTech, 4: CultivateMD, Genesys, Patient
                                            IQ, ROM 3, 6: Arthrex, Inc., 7A: DJO, Tornier, 8: JSES, Techniques in Orthopaedics, 9: ASES,
                                            AAONA.
Gassman, Audrey .............................. Disclosed no conflict of interest.
Gates, Kayla ................................. Disclosed no conflict of interest.
Gatrell, Landon B .............................. Disclosed no conflict of interest.
Gaunter, Christopher ....................... Disclosed no conflict of interest.
Gausden, Elizabeth .......................... Disclosed no conflict of interest.
Gautam, Rekha .............................. Disclosed no conflict of interest.
Gauthier, John .............................. Disclosed no conflict of interest.
Gautreaux, Madeline ............... Disclosed no conflict of interest.
Gautreaux, Malley A ............... Disclosed no conflict of interest.
Gavile, Cathy...................... Disclosed no conflict of interest.
Gavin, Katherine................ Disclosed no conflict of interest.
Gawri, Rahul ...................... Disclosed no conflict of interest.
Ge, David ......................... Disclosed no conflict of interest.
Gebauer, Kristin.................. Disclosed no conflict of interest.
Gehret, Paul ...................... Disclosed no conflict of interest.
Gelberman, Richard H ........... Disclosed no conflict of interest.
Geller, Jeffrey .................... 1: Smith and Nephew, 2: Smith and Nephew, 3B: Smith and Nephew, Nimble Health, 4: Zimmer Biomet.
Geltner, Marla ................... Disclosed no conflict of interest.
Gempfer, Carina .................. Disclosed no conflict of interest.
Genetos, Damian C ............... Disclosed no conflict of interest.
Geng, Xiang ...................... Disclosed no conflict of interest.
Genoud, Katelyn J .............. Disclosed no conflict of interest.
Gens, Lena ....................... Disclosed no conflict of interest.
Gentile, Pietro M ............... Disclosed no conflict of interest.
Genuaidi, Joseph ................ Disclosed no conflict of interest.
George, Elizabeth R ............. Disclosed no conflict of interest.
Geraghty, Terese ............... Disclosed no conflict of interest.
Gerhardt, Holger ................ Disclosed no conflict of interest.
Geris, Liesbet ................... Disclosed no conflict of interest.
Gerlinger, Tad .................... 1: Smith and Nephew, 3B: Smith and Nephew, 5: Smith and Nephew.
Gersie, Thomas S ............... Disclosed no conflict of interest.
Gerstenfeld, Louis .............. Disclosed no conflict of interest.
Getgood, Alan.......................Disclosed no conflict of interest.
Gettleman, Brandon S..............Disclosed no conflict of interest.
Getty, Patrick J.....................Disclosed no conflict of interest.
Ghaednia, Hamid....................Disclosed no conflict of interest.
Ghasemi, Mehdi......................Disclosed no conflict of interest.
Ghasemi, S. Ali.....................Disclosed no conflict of interest.
Gholipour-Baboli, Ali...............Disclosed no conflict of interest.
Ghosh, Arand.......................Disclosed no conflict of interest.
Ghosh, Debolina....................Disclosed no conflict of interest.
Giampetruzzi, Nicholas.............Disclosed no conflict of interest.
Giancaspro, Joseph C...............Disclosed no conflict of interest.
Gibson, Margaret...................3A: Acuitive Technologies Inc.
Gichoya, Judy W....................Disclosed no conflict of interest.
Gidwani, Meeta.....................3A: MTF Biologics.
Giertych, Benjamin................Disclosed no conflict of interest.
Gil Alabarse, Paulo Vinicius.......Disclosed no conflict of interest.
Gil, Dmitry.........................Disclosed no conflict of interest.


Gilbert, Sophie .....................Disclosed no conflict of interest.
Giles, Joshua ......................Disclosed no conflict of interest.
Giles, William ......................Disclosed no conflict of interest.
Gill, Ann .................................. Disclosed no conflict of interest.
Gill, Cheryl .................................. 3A: DePuy Synthes Joint Reconstruction.
Gill, Harinderjit Singh ......................... Disclosed no conflict of interest.
Gill, Meera .................................. Disclosed no conflict of interest.
Gill, Steven R. .................................. Disclosed no conflict of interest.
Gillinov, Stephen .......................... Disclosed no conflict of interest.
Gillinov, Stephen M ................. Disclosed no conflict of interest.
Gillis, Melissa ................................. Disclosed no conflict of interest.
Gimona, Mario ................................. Disclosed no conflict of interest.
Gingery, Anne ...................... Disclosed no conflict of interest.
Giordano, Brian .......................... 7A: Arthrex Inc.
Giordano, Terri ................................. Disclosed no conflict of interest.
Girardi, Federico P ................... Disclosed no conflict of interest.
Girardi, Federico P ................... Disclosed no conflict of interest.
Girgis, Abrie ................................. Disclosed no conflict of interest.
Giri, Aysh ................................. Disclosed no conflict of interest.
Girolami, Mauro .......................... Disclosed no conflict of interest.
Gitajn, Ida Leah .......................... Disclosed no conflict of interest.
Glaeser, Juliane ......................... Disclosed no conflict of interest.
Glass, Natalie ................................. Disclosed no conflict of interest.
Glass, Natalie A .......................... Disclosed no conflict of interest.
Gleeson, John P. .................. Disclosed no conflict of interest.
Gleicher, Josh ................................. Disclosed no conflict of interest.
Glenday, Jonathan .................. Disclosed no conflict of interest.
Gligor, Brandon .................. Disclosed no conflict of interest.
Gligor, Brandon Z .................. Disclosed no conflict of interest.
Glimm, Matthew .................. Disclosed no conflict of interest.
Glissmeyer, Evan .................. 3A: Ensign Pharmaceutical, Inc.
Gnanasekar, Varun..............Disclosed no conflict of interest.

Gobezie, Rueben ....................3B: Arthrex.

Goble, Haley ......................Disclosed no conflict of interest.

Godfrey, Rose ......................Disclosed no conflict of interest.

Godoy, Michael ....................Disclosed no conflict of interest.

goel, Gargi........................Disclosed no conflict of interest.


Goel, Vijay .......................5: WEB Medical Inc.

Goergen, Craig J ..................Disclosed no conflict of interest.

Goetz, Jessica .....................Disclosed no conflict of interest.

Goetz, Jessica E ...................Disclosed no conflict of interest.

Goetz, Jessica E ...................Disclosed no conflict of interest.

Goff, Adam .........................Disclosed no conflict of interest.

Goff, Adam D .......................Disclosed no conflict of interest.

Goff, Alex W .......................Disclosed no conflict of interest.

Goguen, Jake .......................Disclosed no conflict of interest.

Goh, Hanse .........................Disclosed no conflict of interest.

Goh, Qingnian ......................Disclosed no conflict of interest.

Golchin, Shahriar .................Disclosed no conflict of interest.

Gold, Garry .......................Disclosed no conflict of interest.

Gold, Michael .....................Disclosed no conflict of interest.

Gold, Peter .........................Disclosed no conflict of interest.

Goldberg, Benjamin ...............Disclosed no conflict of interest.

Goldberg, Jacob ...................Disclosed no conflict of interest.

Golden, Max V. ....................Disclosed no conflict of interest.

Goldman, Ariel ....................Disclosed no conflict of interest.

Goldman, Ariel T ..................Disclosed no conflict of interest.

Goldman, Ariel Tenny .............Disclosed no conflict of interest.

Goldring, Mary B .................Disclosed no conflict of interest.
Goldring, Steven .................................................. 3A: Ensign Pharmaceutical, Inc, 4: Ensign Pharmaceutical, Inc.

Goldring, Steven R .............................................. Disclosed no conflict of interest.

Goldstein, Kyle .................................................. Disclosed no conflict of interest.

Golightly, Yvonne ................................................ Disclosed no conflict of interest.

Golloski, Mateo .................................................. Disclosed no conflict of interest.

Goltz, Daniel ....................................................... Disclosed no conflict of interest.

Goltzer, Oren ....................................................... Disclosed no conflict of interest.

Gomes, Manuela E .............................................. Disclosed no conflict of interest.

Gomez, Jaime A. .................................................... 3B: Stryker and Zimmer.

Gomez-Contreras, Piedad C .............................. Disclosed no conflict of interest.

Gomez-Salazar, Mario ........................................ Disclosed no conflict of interest.

Gomillion, Cheryl T. .......................................... Disclosed no conflict of interest.


Gonçalves, Ana I .............................................. Disclosed no conflict of interest.

Gondusky, Joseph S ............................................ 7A: DePuy Synthes.

Gong, Chujie ..................................................... Disclosed no conflict of interest.

Gong, Wiley ......................................................... Disclosed no conflict of interest.

Gonzales, David .................................................. 4: Viking Therapeutics, Celldex, Moderna, Gilead Sciences.

Gonzales, Gavin ................................................... Disclosed no conflict of interest.

Gonzales, Luigi .................................................... Disclosed no conflict of interest.

Gonzales, Luigi P ................................................... Disclosed no conflict of interest.

Gonzalez, Christian .............................................. Disclosed no conflict of interest.

Gonzalez, Christian A ......................................... Disclosed no conflict of interest.

Gonzalez, Jasmine L .............................................. Disclosed no conflict of interest.

Gonzalez, Julian .................................................... Disclosed no conflict of interest.

Gonzalez, Mark ..................................................... Disclosed no conflict of interest.

Gonzalez, Mark H. ............................................... Disclosed no conflict of interest.

Gonzalez, Roberto ............................................... Disclosed no conflict of interest.

Gonzalez, Uriel .................................................... Disclosed no conflict of interest.
Gonzalez-Nolde, Sofia............**Disclosed no conflict of interest.**

Gonzalez-Vazquez, Arlyng............**Disclosed no conflict of interest.**

Gonzalez-Vazquez, Arlyng G .....**Disclosed no conflict of interest.**

Goodchild, Alex ............**Disclosed no conflict of interest.**

Goodchild, Gordon............**Disclosed no conflict of interest.**

Goodchild, Gordon............3A: Caira Surgical.

Goode, Adam P............**Disclosed no conflict of interest.**

Goodman, Howard............**Disclosed no conflict of interest.**

Goodman, Ian............**Disclosed no conflict of interest.**

Goodman, Stuart............**Disclosed no conflict of interest.**

Goodman, Stuart B............**Disclosed no conflict of interest.**

Goodman, Susan............**Disclosed no conflict of interest.**

Goodrich, Ezra............**Disclosed no conflict of interest.**


Goodwin, Alyssa M............**Disclosed no conflict of interest.**

Goodwin, Charley M............**Disclosed no conflict of interest.**

Goodwin, Matthew............3C: Stryker, 4: Pfizer, BioNTech, Moderna, ROM3, Merck, JNJ, 5: KAIA.

Gopalakrishnan, Ananth............3A: Stryker, 4: Stryker.

Gopalkrishnan, Sanjiv............**Disclosed no conflict of interest.**

Goraltchouk, Alex............3A: Remedium Bio, Inc, 4: Remedium Bio, Inc.

Gordish-Dressman, Heather.....**Disclosed no conflict of interest.**

Gordon, Daniel............**Disclosed no conflict of interest.**

Gordon, Madeleine............**Disclosed no conflict of interest.**

Gorman, Melissa............**Disclosed no conflict of interest.**

Goronzy, Jens............**Disclosed no conflict of interest.**

Gorur, Alaka............**Disclosed no conflict of interest.**

Gosnell, Griffith G............**Disclosed no conflict of interest.**

Gothard, Dave............**Disclosed no conflict of interest.**

Goto, Bunsei............**Disclosed no conflict of interest.**
Goto, Tomohiro ....................... Disclosed no conflict of interest.
Goto, Yuta.......................... Disclosed no conflict of interest.
Gottardi, Riccardo .................. Disclosed no conflict of interest.
Gottlich, Caleb .................... Disclosed no conflict of interest.
Gottschalk, Michael ......... Disclosed no conflict of interest.
Gould, Heath ....................... Disclosed no conflict of interest.
Gould, Heath P ..................... Disclosed no conflict of interest.
Gould, Nicole ...................... Disclosed no conflict of interest.
Gouldin, Austin .................... Disclosed no conflict of interest.
Gouzoulis, Michael ........... Disclosed no conflict of interest.
Gouzoulis, Michael J........ Disclosed no conflict of interest.
Gow, Christopher K .......... Disclosed no conflict of interest.
Graceffa, Gabrielle ............ Disclosed no conflict of interest.
Gracia, Julissa ................... Disclosed no conflict of interest.
Grad, Sibylle ...................... Disclosed no conflict of interest.
Graf, Alexander R .............. Disclosed no conflict of interest.
Grammatopoulos, George .... Disclosed no conflict of interest.
Granade, Charles M ............ Disclosed no conflict of interest.
Grande, Daniel .................... Disclosed no conflict of interest.
Grande, Daniel A ................. Disclosed no conflict of interest.
Grandi, Fiorella C ............... Disclosed no conflict of interest.
Grant, John A ..................... 2: JRF Ortho, Vericel, 3B: JRF Ortho, 5: JRF Ortho, Arthrex, 8: Associate Editor for CME, JBJS.
Grant, John A ..................... 2: JRF Ortho, Vericel, 5: JRF Ortho, Arthrex, Aesculap Biologics, 8: Associate Editor for CME, JBJS.
Grant, Michael ................... Disclosed no conflict of interest.
Grant, Rachel ...................... Disclosed no conflict of interest.
Grassi, Alberto ................... Disclosed no conflict of interest.
Grassi, Lorenzo ................... Disclosed no conflict of interest.
Grasso, Gianvito .................. Disclosed no conflict of interest.


Grauer, Jonathan N .................. Disclosed no conflict of interest.


Grauer, Jonathan N .................. Disclosed no conflict of interest.


Gray, Ryan .................. Disclosed no conflict of interest.

Gray, Ryan S .................. Disclosed no conflict of interest.

Grayson, Warren .................. Disclosed no conflict of interest.

Grayson, Warren L .................. Disclosed no conflict of interest.

Grayson, Warren N .................. Disclosed no conflict of interest.

Green, Daniel W .................. 3B: Arthrex Inc, 7A: Pega Medical, Arthrex Inc.

Green, Ellen M .................. Disclosed no conflict of interest.

Green, Jillian .................. Disclosed no conflict of interest.

Green, Samuel .................. Disclosed no conflict of interest.

Green, Stefan .................. Disclosed no conflict of interest.

Greenbaum, John .................. Disclosed no conflict of interest.

Greenblatt, Matthew .................. Disclosed no conflict of interest.

Greenblatt, Matthew B .................. Disclosed no conflict of interest.

Greene Jr., Vaughn K .................. Disclosed no conflict of interest.
Greene, Ben .................................. Disclosed no conflict of interest.
Greene, Nattaly ............................... Disclosed no conflict of interest.
Greene, Nicholas ............................. Disclosed no conflict of interest.
Greenfield, Ed M. ............................ Disclosed no conflict of interest.
Greenfield, Edward M ....................... Disclosed no conflict of interest.
Greenwald, Jon ................................. 3A: Caira Surgical.
Greenwald, Jonathon .......................... 3A: Caira Surgical.
Greg, Strnad ................................... 1: OBERD.
Gregory, Andrew ............................... Disclosed no conflict of interest.
Gregory, Kristen ............................... Disclosed no conflict of interest.
Greiner, Justin ................................. Disclosed no conflict of interest.
Greiner, Justin J ............................... Disclosed no conflict of interest.
Greising, Sarah M .............................. 8: Associate Editor for Connective Tissue Research.
Gresham, Robert ............................... Disclosed no conflict of interest.
Grewal, Ruby .................................... Disclosed no conflict of interest.
Grey, Sean .......................... 3B: Exactech, Inc, 7A: Exactech, Inc.
Grieco, Preston ................................ Disclosed no conflict of interest.
Griffin, Alec .................................. Disclosed no conflict of interest.
Griffin, Lisa ................................. Disclosed no conflict of interest.
Griffin, Michelle ............................ Disclosed no conflict of interest.
Griffin, Nicole A ................................ Disclosed no conflict of interest.
Griffin, Tim .......................... 8: Editorial Board for Osteoarthritis and Cartilage.
Griffith, Jacob ............................... Disclosed no conflict of interest.
Griffith, Jacob L .............................. Disclosed no conflict of interest.
Griggs, David ................................. 3B: paid consultant, 4: stock.
Grimm, Nathan Disclosed no conflict of interest.
Grinberg, Isaac Disclosed no conflict of interest.
Grindel, Steven Disclosed no conflict of interest.
Grindel, Steven I Disclosed no conflict of interest.
Grindstaff, Terry Disclosed no conflict of interest.
Grinstaff, Mark Disclosed no conflict of interest.
Grinstaff, Mark W Disclosed no conflict of interest.
Grinstaff, Mark W Disclosed no conflict of interest.
Grodzinsky, Alan Disclosed no conflict of interest.
Groot, Olivier Q Disclosed no conflict of interest.
Grossi, Elena Disclosed no conflict of interest.
Grossman, Matthew Disclosed no conflict of interest.
Groven, Rald VM Disclosed no conflict of interest.
Grunwald, David Disclosed no conflict of interest.
Gu, Jianguo G Disclosed no conflict of interest.
Gu, Weiyong Disclosed no conflict of interest.
Gu, Yunyang Disclosed no conflict of interest.
Guan, Jianjun Disclosed no conflict of interest.
Guastaldi, Fernando Disclosed no conflict of interest.
Gucev, Gligor Disclosed no conflict of interest.
Guerra, Rosa Disclosed no conflict of interest.
Guerrieo, Zachary Disclosed no conflict of interest.
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Guilak, Farshid 1: Agathos, 3A: Cytex, 4: Cytex, 7A: Agathos.
Guilak, Farshid 3A: cytex, 4: cytex.
Guilak, Farshid 3A: Cytex, Agathos, 4: Cytex, Agathos.
Guilak, Farshid 3A: Cytex, 4: Cytex, 7A: Agathos.
Guilak, Farshid ........................... Disclosed no conflict of interest.
Guilak, Farshid ........................... 1: Agathos, 3A: Cytex, 4: Cytex.
Guilak, Farshid ........................... 3A: Cytex, 4: Cytex, 7A: Agathos, 7B: Agathos.
Guimarães, Joao Antonio Matheus  Disclosed no conflict of interest.
Guirguis, Paul ............................. Disclosed no conflict of interest.
Guisti, Nick ................................. Disclosed no conflict of interest.
Guldberg, Robert ......................... 3B: MiMedx, 3C: Restor3D, Penderia Technologies, 4: MiMedx, Restor3D, Penderia Technologies, Huxley Medical, 6: MiMedx.
Guldberg, Robert ......................... 3B: MiMedx, 3C: Restor3D, Penderia Technologies, 4: MiMedx, Restor3D, Penderia, Huxley Medical, 6: MiMedx.
Guldberg, Robert E ........................ 4: MiMedx, Restor3D, Penderia Technologies, Huxley Medical, 9: MiMedx.
Guldberg, Robert E ...................... Disclosed no conflict of interest.
Guldberg, Robert E ...................... 3B: MiMedx, 3C: Restor3D, Penderia Technologies, 4: MiMedx, Restor3D, Penderia Technologies, Huxley Medical, 6: MiMedx.
Gullbrand, Sarah ......................... 6: MTA with Zurimed Technologies.
Gullbrand, Sarah ......................... 6: Research material collaboration with Zurimed.
Gullbrand, Sarah ......................... 6: Research Material Collaboration with ZuriMED Technologies AG.
Gullbrand, Sarah ......................... 6: Zurimed Technologies AG.
Gullbrand, Sarah E ...................... 6: Zurimed Technologies AG.
Gullbrand, Sarah E ...................... 6: MTA with Zurimed Technologies.
Gullbrand, Sarah E ...................... Disclosed no conflict of interest.
Gulotta, Lawrence V ..................... Disclosed no conflict of interest.
Gulotta, Lawrence V ..................... 3B: Exactech.
Gunsch, Gilian ............................ Disclosed no conflict of interest.
Guo, Dandan ............................... Disclosed no conflict of interest.
Guo, Danqing .............................. Disclosed no conflict of interest.
Guo, Ping ................................. Disclosed no conflict of interest.
Guo, Wendi ............................... Disclosed no conflict of interest.
Guo, X. Edward ........................... Disclosed no conflict of interest.
Guo, Xiaojie .................. Disclosed no conflict of interest.
Guo, Yi .............................. Disclosed no conflict of interest.
Gupta, Anoushka .......................... Disclosed no conflict of interest.
Gupta, Arjun T. .......................... Disclosed no conflict of interest.
Gupta, Manish ............................ Disclosed no conflict of interest.
Gupta, Munish ............................. Disclosed no conflict of interest.
Gupta, Munish C ........................... 1: DePuy, 4: Johnson & Johnson, Proctor & Gamble, 7A: DePuy.
Gupta, Puranjay ........................... Disclosed no conflict of interest.
Gupta, Ranjan ............................. Disclosed no conflict of interest.
Gupta, Richa .............................. Disclosed no conflict of interest.
Gupta, Sachin .............................. Disclosed no conflict of interest.
Gurusamy Kamaraj, Sowmya ............ Disclosed no conflict of interest.
Guss, Daniel .............................. Disclosed no conflict of interest.
Gustafson, Jonathan .......................... Disclosed no conflict of interest.
Gustafson, Jonathan A. .................. Disclosed no conflict of interest.
Gustav, Marco ............................. Disclosed no conflict of interest.
Gutiérrez Marty, André F .............. Disclosed no conflict of interest.
Gutierrez, Sergio ......................... Disclosed no conflict of interest.
Gutowski, Caroline T .................... Disclosed no conflict of interest.
Gutowski, Christina .......................... 3B: Adler Orthopaedics.
Gutowski, Christina J ................... Disclosed no conflict of interest.
Gutwein, Gerald .......................... Disclosed no conflict of interest.
Guyer, Tyler .............................. Disclosed no conflict of interest.
Guyton, Gregory .......................... Disclosed no conflict of interest.
Guyton, Gregory P ....................... Disclosed no conflict of interest.
Guyton, James ........................... Disclosed no conflict of interest.
Guzman, Alvarho .......................... Disclosed no conflict of interest.
Ha, Ethan ................................. Disclosed no conflict of interest.
Ha, Myongsu .............................. Disclosed no conflict of interest.
Haase, Douglas .......................... Disclosed no conflict of interest.
Haase, Lucas .............................. Disclosed no conflict of interest.
Haast, Roy............................................*Disclosed no conflict of interest.*
Habib, Anthony...............................3A: Stryker, 4: Stryker.
Habib, Mohamed...........................*Disclosed no conflict of interest.*
Habing, Krista ...............................*Disclosed no conflict of interest.*
Häckel, Sonja ...............................*Disclosed no conflict of interest.*
Hackett, Thomas.............................3B: RTI Surgical, Inc, 6: Vericel Corporation.
Hackl, Simon ..................................*Disclosed no conflict of interest.*
Haden, Marshall ............................*Disclosed no conflict of interest.*
Hadley, Morgan .............................*Disclosed no conflict of interest.*
Hadley-Miller, Nancy ......................*Disclosed no conflict of interest.*
Haffer, Henryk ..............................*Disclosed no conflict of interest.*
Haffner, Max ..................................*Disclosed no conflict of interest.*
Haffner-Luntzer, Melanie ..................9: Section Research & Education Chair.
Haffner-Luntzer, Melanie ..................*Disclosed no conflict of interest.*
Hagedorn, John .............................*Disclosed no conflict of interest.*
Hageman, Kara A...........................*Disclosed no conflict of interest.*
Hageman, Kara A...........................*Disclosed no conflict of interest.*
Haglund, Lisbet ...............................*Disclosed no conflict of interest.*
Hahamyan, Henrik ..........................*Disclosed no conflict of interest.*
Hahn, Alyssa ..................................*Disclosed no conflict of interest.*
Hahn, Alyssa K .............................*Disclosed no conflict of interest.*
Haider, Ifaz .................................*Disclosed no conflict of interest.*
Haider, M. Nadir .........................*Disclosed no conflict of interest.*
Haider, Nadir ...............................*Disclosed no conflict of interest.*
Haim, Kara .................................*Disclosed no conflict of interest.*
Haislup, Brett ..............................*Disclosed no conflict of interest.*
Hajek, Blake ..............................*Disclosed no conflict of interest.*
Hajmousa, Ghazaleh ......................*Disclosed no conflict of interest.*
Hake, Mark .......................................................... Disclosed no conflict of interest.
Hakim, Bill.......................................................... Disclosed no conflict of interest.
Hakukawa, Satoshi .................. Disclosed no conflict of interest.
Halanski, Matthew ......................... Disclosed no conflict of interest.
Halanski, Matthew A........................ Disclosed no conflict of interest.
Hales, Laurel J.......................... Disclosed no conflict of interest.
Hali, Kalter .................................................. Disclosed no conflict of interest.
Hall, Deborah J.......................... 5: Stryker.
Hall, Deborah J.......................... Disclosed no conflict of interest.
Hall, Deborah J.......................... 5: Stryker.
Hall, James RL .................. Disclosed no conflict of interest.
Hall, Josephine R.......................... Disclosed no conflict of interest.
Hallab, Nadim J.......................... 4: BioEngineering Solutions, Inc.
Hallab, Nadim J.......................... 4: Bioengineering Solutions Inc.
Hallegouet, Tanguy .................. Disclosed no conflict of interest.
Haller, Justin .................. Disclosed no conflict of interest.
Halloran, Jason .................. 5: Stryker.
Halloran, Jason P .............. Disclosed no conflict of interest.
Hallowell, Peter .................. Disclosed no conflict of interest.
Halperin, Scott .................. Disclosed no conflict of interest.
Halperin, Scott J .................. Disclosed no conflict of interest.
Halvorson, Ryan T .................. Disclosed no conflict of interest.
Halvorson, Ryan T .................. Disclosed no conflict of interest.
Hamad, Cyril .................. 3A: Blue-Ortho.
Hamad, Mohammed N ........ Disclosed no conflict of interest.
Hamada, Daisuke .................. Disclosed no conflict of interest.
Hamada, Hidetoshi .................. Disclosed no conflict of interest.
Hamada, Moustafa .............. Disclosed no conflict of interest.
Hamai, Satoshi

Hamasaki, Masanari

Hamat, Mary

Hambright, Sealy

Hamburger, Eleane C

Hamby, Jacob A.

Hamilton Boudreau, Margaret

Hamilton, John L

Hamilton, Landon D

Hamlin, Stephanie

Hammad, Mohammed


Hammes, Jerrod

Hammond III, Frank

Hampp, Emily 3A: Stryker, 4: Stryker.

Hampp, Emily 3A: Stryker.

Hamrick, Mark

Han, Biao

Han, Hyuk Soo

Han, Jae Woong

Han, Jian

Han, Jikhyon

Han, Lin

Han, Mo

Han, Sang-Jun

Han, Sheng Chen

Han, Shuyang

Han, Woojin

Han, Xuzheng

Disclosed no conflict of interest.
Han, Yi Xin ....................... **Disclosed no conflict of interest.**
Hanada, Shuji ....................... **Disclosed no conflict of interest.**
Hanamatsu, Hisatoshi ............... **Disclosed no conflict of interest.**
Handiu, Idris ........................ **Disclosed no conflict of interest.**
Handoklow, Lyla A .................. **Disclosed no conflict of interest.**
Haneberg, Erik ...................... **Disclosed no conflict of interest.**
Haneberg, Erik C .................... **Disclosed no conflict of interest.**
Haneda, Masahiko ................... **Disclosed no conflict of interest.**
Hanidu, Idris ........................ **Disclosed no conflict of interest.**
Hanidu, Idris ........................ **6: Blue Cross Blue Shield.**
Hankenson, Kurt .................... **Disclosed no conflict of interest.**
Hankenson, Kurt ........................**9: ORS.**
Hankenson, Kurt D. ..................**Disclosed no conflict of interest.**
Hanna, Gabriel ........................**Disclosed no conflict of interest.**
Hannan, Marian T ...................**Disclosed no conflict of interest.**
Hannigan, Caroline .................**Disclosed no conflict of interest.**
Hansen, Channing ...................**Disclosed no conflict of interest.**
Hansen, Charles ....................**Disclosed no conflict of interest.**
Hansen, D .............................**Disclosed no conflict of interest.**
Hansen, Uwe ...........................**Disclosed no conflict of interest.**
Hansen, Victoria ...................**Disclosed no conflict of interest.**
Hansen, Victoria L .................**Disclosed no conflict of interest.**
Hao, Kevin A ..........................**Disclosed no conflict of interest.**
Hao, Leilei .............................**Disclosed no conflict of interest.**
Haqqi, Tariq M ......................**Disclosed no conflict of interest.**
Hara, Hitomi ..........................**Disclosed no conflict of interest.**
Hara, Shigeo .........................**Disclosed no conflict of interest.**
Hara, Yuki .............................**Disclosed no conflict of interest.**
Harada, Tomohisa ...................**Disclosed no conflict of interest.**
Harasymowicz, Natalia S ............**3A: Agathos, 4: Agathos.**
Harasymowicz, Natalia S ........................................1: Agathos.
Harato, Kengo ...........................................Disclosed no conflict of interest.
Harding, Anna Kajsa .................................Disclosed no conflict of interest.
Harding, Derek B. .................................Disclosed no conflict of interest.
Hardisty, Michael ...............................Disclosed no conflict of interest.
Hardwick-Morris, Max ..........................3A: 360 Med Care.
Harissa, Zainab ........................................Disclosed no conflict of interest.
Hark, Gillian .............................................Disclosed no conflict of interest.
Harkess, James ........................................Disclosed no conflict of interest.
Harkey, Matthew ..................................Disclosed no conflict of interest.
Harley, Brendan .......................................Disclosed no conflict of interest.
Harmon, Katrina A ..................................3A: Organogenesis.
Harrell, Abby ........................................Disclosed no conflict of interest.
Harrer, Julia ........................................Disclosed no conflict of interest.
Harriman, Isaac ........................................Disclosed no conflict of interest.
Harris, Joshua ........................................Disclosed no conflict of interest.
Harris, Kathleen ..................................Disclosed no conflict of interest.
Harris, Michael ........................................Disclosed no conflict of interest.
Harris, Michele Y ..................................Disclosed no conflict of interest.
Harrison, Lewis ......................................Disclosed no conflict of interest.
Hart, Christoph D ......................................Disclosed no conflict of interest.
Hartl, Roger ...........................................3B: 3DBio.
Harty, James A ........................................3B: DePuy Synthes, 4: OrthoXel, 5: OrthoXel, 6: OrthoXel.
Hartzler, Robert U ...................................3B: Stryker.
Harvey, Edward ........................................4: MY01 inc., 8: Editor in Chief, CJS, 9: Board of Directors, OTA.
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Hasebe, Yoshihiro ..................................3A: Teijin Nakashima Medical Co., Ltd.
Hasegawa, Masahiro ..................................Disclosed no conflict of interest.
Hasegawa, Takahiro ........................Disclosed no conflict of interest.
Hasegawa, Tomoka ........................Disclosed no conflict of interest.
Hassan, Ameer E ........................Disclosed no conflict of interest.
Hassan, Omar ........................Disclosed no conflict of interest.
Hassenbein, Susan ......................Disclosed no conflict of interest.
Hassouna, Ameer ........................Disclosed no conflict of interest.
Hast, Michael ........................Disclosed no conflict of interest.
Hast, Michael W ........................5: Becton Dickinson, 9: ORS Implant Section, OTA Basic Science Committee.
Hastings, Mary K ......................Disclosed no conflict of interest.
Hastings, Molly ........................Disclosed no conflict of interest.
Hasty, Karen ........................Disclosed no conflict of interest.
Hasty, Karen A ........................Disclosed no conflict of interest.
Hata, Jun ........................Disclosed no conflict of interest.
Hata, Toshiaki ........................Disclosed no conflict of interest.
Hatayama, Kazuhisa ..................Disclosed no conflict of interest.
Hatch, George F "Rick" ..............2: Arthrex, Inc, 3B: Arthrex, Inc.
Hatt, Luan P ........................Disclosed no conflict of interest.
Haudenschild, Dominik .............4: Tesio Pharmaceuticals, 5: Valitor, 8: ORS, ICRS.
Haudenschild, Dominik R ............4: Tesio Pharmaceuticals, 5: Valitor, 8: ORS, ICRS.
Haus, Jacob M .......................Disclosed no conflict of interest.
Hausmann, Oliver Nic ................Disclosed no conflict of interest.
Haut Donahue, Tammy L ............Disclosed no conflict of interest.
Havasy, Janice .......................Disclosed no conflict of interest.
Hawk, Jocelyn .........................Disclosed no conflict of interest.
Hayashi, Jeffrey ......................Disclosed no conflict of interest.
Hayashi, Ken ........................Disclosed no conflict of interest.
Hayashi, Shinya ......................Disclosed no conflict of interest.
Hayashi, Toshinori ..................Disclosed no conflict of interest.
Hayashi, Yukinori

Hayashida, Kenta

Hayda, Taissa

Haytmanek, Thomas

He, Jade

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He, Yaohua

He, Yi

Head, Steven R.

Healey, John

Healy, Ryan

Heard, Jeremy A

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Hearn, Bernard F

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Heckmann, Nathanael D

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Hederick, Lucy

Hedt, Corbin

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Heidari, Behzad Shiroud

Heider, Anja

Heil, Todd

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Disclosed no conflict of interest.

3B: Arthrex, Gemini Mountain Medical, Integra, Bioventis, Exatech, Stryker, 5: Stryker.

AAOS, AJRR, American Association of Hip and Knee Surgeons.

AAOS, AJRR, A AHKS.
Heinonen, Jake .................................. Disclosed no conflict of interest.
Heise, Andreas .................................. Disclosed no conflict of interest.
Hejazi-Garcia, Claudia ......................... Disclosed no conflict of interest.
Helbig, Thomas .................................. Disclosed no conflict of interest.
Hellwinkel, Justin E............................ Disclosed no conflict of interest.
Hematti, Peiman .................................. Disclosed no conflict of interest.
Hembree, Walter C.............................. Disclosed no conflict of interest.
Hemdev, Sanjana .................................. Disclosed no conflict of interest.
Henak, Corinne .................................. Disclosed no conflict of interest.
Henak, Corinne R .................................. Disclosed no conflict of interest.
Henke, Julia A. .................................. Disclosed no conflict of interest.
Henkelman, Erik ................................. 4: Johnson and Johnson.
Henn, Frank ..................................... Disclosed no conflict of interest.
Henninger, Heath B ......................... 5: Stryker, 6: Stryker, DePuy, DJO.
Henry, Aaron .................................. Disclosed no conflict of interest.
Henry, Kaitlin .................................. Disclosed no conflict of interest.
Henryk, Haffer .................................. Disclosed no conflict of interest.
Heo, Su-Jin ....................................... 5: 4 WEB medical Inc.
Hepfer, Glenn .................................. Disclosed no conflict of interest.
Hepfer, Richard .................................. Disclosed no conflict of interest.
Herger, Nick .................................. Disclosed no conflict of interest.
Hering, Thomas M ......................... 8: Clinical Orthopaedics and Related Research.
Herman, Zachary .................................. Disclosed no conflict of interest.
Herman, Zachary J .............................. Disclosed no conflict of interest.
Hernandez Mendez, Mayelin .... Disclosed no conflict of interest.
Hernandez, Christopher J ........ Disclosed no conflict of interest.
Hernandez, Karen ........................... Disclosed no conflict of interest.
Hernandez, Luis M .......................... Disclosed no conflict of interest.
Hernandez, Paula A ........................... Disclosed no conflict of interest.
Herrera, Valentina R ........................ Disclosed no conflict of interest.
Herriott, Jake .......................... Disclosed no conflict of interest.
Herzberg, Simone ...................... Disclosed no conflict of interest.
Herzog, Isabel .......................... Disclosed no conflict of interest.
Herzog, Manuel .......................... Disclosed no conflict of interest.
Herzog, Walter .......................... Disclosed no conflict of interest.
Hess, Madeline .......................... Disclosed no conflict of interest.
Heub, Sarah .......................... Disclosed no conflict of interest.
Heveran, Chelsea ...................... Disclosed no conflict of interest.
Heveran, Chelsea M .................. Disclosed no conflict of interest.
Hevesi, Mario .......................... 3B: Moximed, 8: JCJP.
Hevesi, Mario .......................... Disclosed no conflict of interest.
Hewett, Timothy E .................... Disclosed no conflict of interest.
Hewitt, Michael A ...................... Disclosed no conflict of interest.
Heywroth, Benton ..................... 4: AlloSource, Imagen, Vericel, 9: POSNA, PRiSM.
Hickock, Noreen ........................ Disclosed no conflict of interest.
Hickok, Noreen .......................... 3B: SINTX, 4: Biogen, 8: PLOS ONE.
Hickok, Noreen J ...................... 3B: SINTX Technologies, 4: Biogen, 8: PLOSOne.
Hicks, Michael .......................... Disclosed no conflict of interest.
Hickson, Kate .......................... Disclosed no conflict of interest.
Hidalgo Perea, Sofia .................. Disclosed no conflict of interest.
Hideki, Murakami ...................... Disclosed no conflict of interest.
Hieda, Yuta .......................... Disclosed no conflict of interest.
Higaki, Hidehiko ...................... Disclosed no conflict of interest.
Higashihira, Shota .................... Disclosed no conflict of interest.
Higinbotham, Sean E ................. Disclosed no conflict of interest.
Higinbotham, Sean E .................. 5: Stryker.
Hilibrand, Alan S ............... *Disclosure no conflict of interest.*

Hill, Marcheta J ............... *Disclosure no conflict of interest.*

Hill, Robert ..................... *Disclosure no conflict of interest.*

Hill, William J ................... *Disclosure no conflict of interest.*

Hilliard, Brendan A ............... *Disclosure no conflict of interest.*

Hilliard, Rachel ................... *Disclosure no conflict of interest.*


Hillwig, Robert Joseph .......... *Disclosure no conflict of interest.*

Hiltunen, Rasmus K. ............... *Disclosure no conflict of interest.*

Hindle, Paul ....................... *Disclosure no conflict of interest.*

Hines, Madeline R ................. *Disclosure no conflict of interest.*

Hines, Sophie .................... *Disclosure no conflict of interest.*

Hinton, Zoe W ..................... *Disclosure no conflict of interest.*

Hippensteel, Elizabeth ........... 3A: DePuy Synthes Joint Reconstruction, 4: Johnson and Johnson.

Hippensteel, Elizabeth ........... 3A: DePuy Synthes Joint Reconstruction, 4: Johnson & Johnson.

Hirabayashi, Naoki ............... *Disclosure no conflict of interest.*

Hirai, Shinichi .................... *Disclosure no conflict of interest.*

Hirakawa, Kazuo ................... *Disclosure no conflict of interest.*

Hiraki, Harrison L ............... *Disclosure no conflict of interest.*

Hiranaka, Yoshiaki ............... *Disclosure no conflict of interest.*

Hirase, Takashi ................... *Disclosure no conflict of interest.*

Hirata, Hirohito ................... *Disclosure no conflict of interest.*

Hirose, Ryota ...................... *Disclosure no conflict of interest.*

Hirota, Ryosuke ................... *Disclosure no conflict of interest.*

Hirsch, Jeffrey .................... *Disclosure no conflict of interest.*

Hirschl, Robert ................... 4: HT Medical dba Xenix.

Hirth, Jacob ....................... *Disclosure no conflict of interest.*

Hisatomi, Lauren .................. *Disclosure no conflict of interest.*

hishimura, ryosuke ............... *Disclosure no conflict of interest.*

Hislop, Brady ..................... *Disclosure no conflict of interest.*
Hittel, Dustin ..........................Disclosed no conflict of interest.
Hixon, Katherine.......................Disclosed no conflict of interest.
Hlas, Arman ..........................Disclosed no conflict of interest.
Hlas, Arman C .........................Disclosed no conflict of interest.
Ho, Charles ...........................5: Siemens Healthineers.
Ho, Charles P ..........................Disclosed no conflict of interest.
Ho, Jason ..............................3B: Biedermann Motech, 9: ASES.
Ho, Mei-Ling ...........................Disclosed no conflict of interest.
Ho, Noelani ...........................Disclosed no conflict of interest.
Ho, Vanessa P ..........................5: CTSC of Cleveland (KL2TR002547 from the National Center for Advancing Translational Sciences (NCATS) component of the National Institutes of Health and NIH roadmap for Medical Research).
Hoang, Le ..............................Disclosed no conflict of interest.
Hoang, Le Q ............................Disclosed no conflict of interest.
Hoang, Thi Thai Thanh ..................Disclosed no conflict of interest.
Hochberg, Marc .........................Disclosed no conflict of interest.
Hockett, Sam ..........................Disclosed no conflict of interest.
Hodgkinson, Tom .......................Disclosed no conflict of interest.
Hoeffel, Daniel .........................3A: DePuy Synthes Joint Reconstruction.
Hoernschemeyer, Daniel G .........1: Orthopediatrics, 2: Biomarin, 3B: Orthopediatrics, 4: Orthopediatrics, 5: ZimVie, Biomarin.
Hoey, David ..........................Disclosed no conflict of interest.
Hoey, David A ..........................Disclosed no conflict of interest.
Hoffman, Aaron .......................4: Standard Bariatrics.
Hoffman, Brian C. .....................Disclosed no conflict of interest.
Hoffman, Eric .........................Disclosed no conflict of interest.
Hoffman, Jeffrey ......................Disclosed no conflict of interest.
Hoffman, Robert M. .................Disclosed no conflict of interest.
Hoffmann, Ilona .......................3A: Teijin Nakashima Medical Co., Ltd.
Hofmann, Ulf Krister .................Disclosed no conflict of interest.
Hogan, MaCalus ......................8: AAOS, AOFAS, BOS.
Hogan, MaCalus ..........................Disclosed no conflict of interest.
Hogan, MaCalus V ..........................Disclosed no conflict of interest.
Hogan, MaCalus V ..........................8: AOFAS, AAOS, BOS.
Hogan, McCalus ..........................Disclosed no conflict of interest.
Hogue, Grant D ..........................3B: Medtronic, 4: Tether Implant.
Hold, LeeAnn ..........................Disclosed no conflict of interest.
Holderread, Brenden ..........................Disclosed no conflict of interest.
Holdreith, Nicholas ..........................Disclosed no conflict of interest.
Holguin, Nilsson ..........................Disclosed no conflict of interest.
Holland, Joseph ..........................Disclosed no conflict of interest.
Hollander, John ..........................Disclosed no conflict of interest.
Hollander, Judith M ..........................6: Remedium Bio, Inc.
Hollenbeck, Justin ..........................Disclosed no conflict of interest.
Hollenbeck, Justin FM ..........................Disclosed no conflict of interest.
Holmes, James R ..........................Disclosed no conflict of interest.
Holmes, Miles D ..........................Disclosed no conflict of interest.
Holmlund, Emmaline ..........................Disclosed no conflict of interest.
Holt, Abigail ..........................Disclosed no conflict of interest.
Holt, Cathy ..........................Disclosed no conflict of interest.
Holt, Joshua B ..........................Disclosed no conflict of interest.
Homan, Kentaro ..........................Disclosed no conflict of interest.
Honda, Hideki ..........................Disclosed no conflict of interest.
Honda, Takanori ..........................Disclosed no conflict of interest.
Honeggar, Matthew ..........................Disclosed no conflict of interest.
Hong, James ..........................Disclosed no conflict of interest.
Hong, Jonathon ..........................Disclosed no conflict of interest.
Hong, Liu ..........................Disclosed no conflict of interest.
Honick, Brian ..........................Disclosed no conflict of interest.
Honjol, Yazan ..........................Disclosed no conflict of interest.
Honkanen, Juuso T.J. Disclosed no conflict of interest.
Honmou, Osamu Disclosed no conflict of interest.
Hoogenboezem, Ella Disclosed no conflict of interest.
Hookasian, Erika Disclosed no conflict of interest.
Hooke, Alexander W Disclosed no conflict of interest.
Hoppock, Gabriel Disclosed no conflict of interest.
Hoppock, Gabriel A Disclosed no conflict of interest.
Hopster, Klaus Disclosed no conflict of interest.
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Horan, Daniel Disclosed no conflict of interest.
Horenberg, Allison L Disclosed no conflict of interest.
Horne, Phillip 3B: restor3D.
Horner, Nolan Disclosed no conflict of interest.
Horner, Nolan S Disclosed no conflict of interest.
Hornicek, Francis Disclosed no conflict of interest.
Horton, Jason A Disclosed no conflict of interest.
Horvath, Steve Disclosed no conflict of interest.
Hoshijima, Kazuyuki Disclosed no conflict of interest.
Hoshino, Yuichi Disclosed no conflict of interest.
Hosokawa, Yoshiaki Disclosed no conflict of interest.
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Hotaling, Jessica A. Disclosed no conflict of interest.
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Houdek, Matthew Disclosed no conflict of interest.
Houske, Eden Disclosed no conflict of interest.
Houten, John Disclosed no conflict of interest.
Howe, Danielle Disclosed no conflict of interest.
Howell, Christopher Disclosed no conflict of interest.
Howell, Dana .................Disclosed no conflict of interest.
Howell, David R ..................Disclosed no conflict of interest.
Howell, Larry ..................Disclosed no conflict of interest.
Hoydick, Jordan ..................Disclosed no conflict of interest.
Hoyt, Aaron K ..................Disclosed no conflict of interest.
Hryc, Corey F ..................Disclosed no conflict of interest.
Hsiao, Hao-Yuan ..................Disclosed no conflict of interest.
Hsu, Erin ..................Disclosed no conflict of interest.
Hsu, Jason E ..................7A: DJO, 8: JBJS, 9: ASES.
hsu, Ken ..................3B: Sparktek Medical Technologies.
Hsu, Ken ..................4: Sparktek.
Hu, Eric ..................Disclosed no conflict of interest.
Hu, Guanzhong ..................Disclosed no conflict of interest.
Hu, Guoli ..................Disclosed no conflict of interest.
Hu, Xiaqing ..................Disclosed no conflict of interest.
Hua, Kimberly ..................Disclosed no conflict of interest.
Huang, Alice ..................Disclosed no conflict of interest.
Huang, Alice H ..................Disclosed no conflict of interest.
Huang, Angela ..................Disclosed no conflict of interest.
Huang, Charles ..................Disclosed no conflict of interest.
Huang, Christine ..................Disclosed no conflict of interest.
Huang, Chun-Hao ..................Disclosed no conflict of interest.
Huang, Dave ..................Disclosed no conflict of interest.
Huang, Dave T ..................Disclosed no conflict of interest.
Huang, Elijah Ejun ..................Disclosed no conflict of interest.
HUANG, HANQING ..................Disclosed no conflict of interest.
Huang, Jessica ..................Disclosed no conflict of interest.
Huang, Jian ..................Disclosed no conflict of interest.
Huang, Jintian ..................Disclosed no conflict of interest.
Huang, Lingwei ..................Disclosed no conflict of interest.
Huang, Phoebe Disclosed no conflict of interest.
HUANG, Shuting Disclosed no conflict of interest.
Huang, Tony Disclosed no conflict of interest.
Huang, Wei Disclosed no conflict of interest.
Huang, Weiliang Disclosed no conflict of interest.
Huang, Wendy Disclosed no conflict of interest.
Huang, Yao-Hui Disclosed no conflict of interest.
Huang, Yufei Disclosed no conflict of interest.
Huang, Yuming Disclosed no conflict of interest.
Huard, Charles Disclosed no conflict of interest.
Huard, Johnny 1: Cooke Myocyte.
Huard, Johnny 8: Cook Myosite.
Huard, Johnny 7A: Cook Myosite, Inc., 9: ORS Board of Directors.
Huard, Johnny 1: Cooke Myocyte.
Huard, Johnny 1: Cook Myosite, 9: ORS Board of Directors.
Huard, Johnny 1: Cook Myocte.
Huard, Johnny 1: royalties Cook Myosite, Inc.
Huard, Johnny Disclosed no conflict of interest.
Huard, Johnny 7A: Cook Myosite Inc.
Huard, Johnny 1: Receive Royalties from COOK Myosite.
Huard, Johnny 7A: Cook Myosite, Inc.
Huard, Matthieu Disclosed no conflict of interest.
Hubmacher, Dirk Disclosed no conflict of interest.
Huddleston, Hailey Disclosed no conflict of interest.
Huddleston, Hailey P Disclosed no conflict of interest.
Huddleston, James 3B: Exactech.
Hudson, David M Disclosed no conflict of interest.
Huebsch, Nathaniel 3B: Organos, Inc.
Huff, Dan 3A: DePuy Synthes Joint Reconstruction.
Huff, Haley D .................. *Disclosed no conflict of interest.*

Huffman, Nicholas .............. *Disclosed no conflict of interest.*

Hughes, Alexander .............. *Disclosed no conflict of interest.*

Hughes, Alexander P ............. *Disclosed no conflict of interest.*

Hughes, Elizabeth ............... *Disclosed no conflict of interest.*

Hughes, Emily S ................. *Disclosed no conflict of interest.*

Hughes, Jonathan ................ *Disclosed no conflict of interest.*


Hughes-Austin, Jan M. ........... *Disclosed no conflict of interest.*

Hugle, Thomas .................... *Disclosed no conflict of interest.*

Hullfish, Todd J .................. *Disclosed no conflict of interest.*

Hullfish, Todd J .................. *Disclosed no conflict of interest.*


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Hume, Donald R ................... *Disclosed no conflict of interest.*

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Hunt, Connor .............................. Disclosed no conflict of interest.

Hunt, Jessee .............................. Disclosed no conflict of interest.


Hunter, James ............................. Disclosed no conflict of interest.

Hunter, Krystal ............................ Disclosed no conflict of interest.

Huo, Rannon .............................. Disclosed no conflict of interest.

Hurley-Novatny, Amelia ................. Disclosed no conflict of interest.

Hurschler, Christof ........................ Disclosed no conflict of interest.

Hussain, Awais ............................ Disclosed no conflict of interest.

Hussain, Ibrahim .......................... 3B: 3DBio.

Hussien, Amro A .......................... Disclosed no conflict of interest.

Hussien, Amro A .......................... Disclosed no conflict of interest.

Hutchinson, Adam ........................... Disclosed no conflict of interest.

Hutchinson, Ian ............................ Disclosed no conflict of interest.

Hutchinson, Tyler ........................... Disclosed no conflict of interest.

Hutnik, Lauren ............................. Disclosed no conflict of interest.

Hutt, Jonathan ............................. 1: Medacta, Johnson & Johnson, 3B: Medacta, Johnson & Johnson.

Hwang, Derek H ............................ Disclosed no conflict of interest.

Hwang, Il-Ung .............................. Disclosed no conflict of interest.

Hwang, Nathaniel .......................... Disclosed no conflict of interest.

Hylen, Korinna ............................. Disclosed no conflict of interest.

Hyodo, Yuki ............................... Disclosed no conflict of interest.

Hyunchul, Jo Chris ........................ Disclosed no conflict of interest.

Iannotti, Joseph .......................... 1: Viscus, Depuy Synthes, Arthrex, Tornier, DJO, Stryker, Wright Medical, 3B: Collamedix, DJO, Medical Device Business Services, Wright Medical, 4: Custom Orthopaedic Solutions, 7B: Wolters Kluwer Health.

Iannucci, Leanne E ........................ Disclosed no conflict of interest.

Iannucci, Leanne E ........................ Disclosed no conflict of interest.
Iaquinta, Maria Rosa ...............Disclosed no conflict of interest.
Iatridis, James ......................Disclosed no conflict of interest.
Iatridis, James C ....................Disclosed no conflict of interest.
Ichikawa, Tsunagu ..................Disclosed no conflict of interest.
Ichise, Nobutoshi ..................Disclosed no conflict of interest.
Igei, Takahiro .......................Disclosed no conflict of interest.
Ignatius, Anita ........................Disclosed no conflict of interest.
Igram, Cassim M ....................3B: Medtronic, Allosource.
Ihaza, Kendra .......................Disclosed no conflict of interest.
Ihekweazu, Ugonna N ..............Disclosed no conflict of interest.
Iida, Hiroki ..........................Disclosed no conflict of interest.
Iida, Naoya ..........................Disclosed no conflict of interest.
Iizawa, Norishige ..................Disclosed no conflict of interest.
Ijuin, Toshiro .......................Disclosed no conflict of interest.
Ike, Hiroyuki .......................Disclosed no conflict of interest.
Ikeda, Kazuhiro ....................Disclosed no conflict of interest.
Ikeuchi, Masahiko ..................Disclosed no conflict of interest.
Ikoma, Kazuya ......................Disclosed no conflict of interest.
Ikuma, Kato .........................Disclosed no conflict of interest.
Ikumi, Akira .......................Disclosed no conflict of interest.
Ikuta, Kemmei .....................Disclosed no conflict of interest.
Ikuta, Kenmei ......................Disclosed no conflict of interest.
Iliff, Denise C ......................Disclosed no conflict of interest.
Illien-Junger, Svenja ..............Disclosed no conflict of interest.
Im, Gun-Il .........................Disclosed no conflict of interest.
Imagama, Shiro .....................Disclosed no conflict of interest.
Imagama, Takashi ..................Disclosed no conflict of interest.
Imai, Kan ..........................Disclosed no conflict of interest.
Imamura, Yuka ......................Disclosed no conflict of interest.
Imanaka-Yoshida, Kyoko........... *Disclosed no conflict of interest.*
Imbergamo, Casey M ............... *Disclosed no conflict of interest.*
Imbergamo, Casey M. ............... *Disclosed no conflict of interest.*
Imhauser, Carl ...................... *Disclosed no conflict of interest.*
Imhauser, Carl W .................... *Disclosed no conflict of interest.*
Impergre, Amandine ................. *Disclosed no conflict of interest.*
Imrey, Peter B ........................ *3B: GE Healthcare, 8: JASN.*
Ina, Jason ............................ *6: Arthrex.*
Inaba, Yutaka ......................... *Disclosed no conflict of interest.*
Inacio, Jordan ....................... *Disclosed no conflict of interest.*
Inagaki, Katsunori ................... *Disclosed no conflict of interest.*
Inagaki, Yusuke ...................... *Disclosed no conflict of interest.*
Incavo, Stephen ..................... *Disclosed no conflict of interest.*
Inglis, Brendan ...................... *Disclosed no conflict of interest.*
Inglis, Jacqueline ................... *Disclosed no conflict of interest.*
Iniguez, Reniell ..................... *Disclosed no conflict of interest.*
Inkinen, Satu I ...................... *Disclosed no conflict of interest.*
Inoue, Atsuo ......................... *Disclosed no conflict of interest.*
Inoue, Hirokazu ...................... *Disclosed no conflict of interest.*
Inoue, Jumpei ....................... *Disclosed no conflict of interest.*
Inoue, Nozomu ........................ 6: NIH (NIAMS & NICHD).
Inoue, Nozomu ........................ 5: NIH (NIAMS & NICHD).
Inoue, Nozomu ....................... 5: NIH.
Inoue, Nozomu ....................... *Disclosed no conflict of interest.*
Inoue, Takahiro ..................... *Disclosed no conflict of interest.*
Inselman, Amy ....................... *Disclosed no conflict of interest.*
Intini, Claudio ..................... *Disclosed no conflict of interest.*
Intravia, Jessica ................... *Disclosed no conflict of interest.*
Intravia, Jessica M ................. *Disclosed no conflict of interest.*
Inui, Atsuyuki ...................... *Disclosed no conflict of interest.*
Inui, Hiroaki ...........................................Disclosure no conflict of interest.
Inui, Hiroshi ...........................................Disclosure no conflict of interest.
Inverardi, Nicoletta .......................Disclosure no conflict of interest.
Iozzo, Renato V ......................................Disclosure no conflict of interest.
IP, Margaret ...........................................Disclosure no conflict of interest.
Ippolito, Joseph .....................................Disclosure no conflict of interest.
Irandoust, Soroush ..........................Disclosure no conflict of interest.
Iriuchishima, Takanori .................Disclosure no conflict of interest.
Irrgang, James .....................................Disclosure no conflict of interest.
Irrgang, James J ..........................Disclosure no conflict of interest.
Irwin, Rebecca M ..............................Disclosure no conflict of interest.
Isaji, Mitsuko ...................................Disclosure no conflict of interest.
Isaksson, Hanna ..........................Disclosure no conflict of interest.
Isguven, Selin ...................................Disclosure no conflict of interest.
Ishibashi, Teruya ..............................Disclosure no conflict of interest.
Ishihara, Masato ..............................Disclosure no conflict of interest.
Ishihara, Shin ..............................Disclosure no conflict of interest.
Ishihara, Shingo ..............................Disclosure no conflict of interest.
Ishii, Daichi .......................................Disclosure no conflict of interest.
Ishii, Tomoo ...........................................Disclosure no conflict of interest.
Ishikawa, Koji ..........................2: AMGEN, DAIICHI SANKYO, ASAHI KASEI, TEIJIN.
Ishikawa, Yoko ..........................Disclosure no conflict of interest.
Ishizu, Hotaka ...........................................Disclosure no conflict of interest.
Islam, Wasif ..................................Disclosure no conflict of interest.
Ismaily, Sabir ..................................Disclosure no conflict of interest.
Ismaily, Sabir K ..................................Disclosure no conflict of interest.
Israel, Lauren ..................................Disclosure no conflict of interest.
Issa, Daniella ..................................Disclosure no conflict of interest.
Issa, Peter ..................................Disclosure no conflict of interest.
Issa, Tariq Z ..................................Disclosure no conflict of interest.
Ito, Akira ........................................6: ITO CO., LTD.
Ito, Hiromu .....................................5: BMS, 8: Japanese Orthopaedic Society.
Ito, Hiromu ..................................Disclosed no conflict of interest.
Ito, Hiroshi ..................................Disclosed no conflict of interest.
Ito, Kentaro ..................................Disclosed no conflict of interest.
Ito, Naoaki ..................................Disclosed no conflict of interest.
Itoh, Masafumi ..............................Disclosed no conflict of interest.
Itou, Junya ..................................Disclosed no conflict of interest.
Ittenbach, Richard .........................Disclosed no conflict of interest.
Iuchi, Tomohiro .............................Disclosed no conflict of interest.
Ivashkiv, Lionel ............................3C: Eli Lilly and Company.
Ivashkiv, Lionel ............................3A: Hospital for Special Surgery, Weill Cornell Medical College.
Ivashkiv, Lionel .............................Disclosed no conflict of interest.
Ivashkiv, Lionel B .........................3C: Eli Lilly and Company.
Ivasyk, Iryna ...............................Disclosed no conflict of interest.
Iwabuchi, Sho ..............................Disclosed no conflict of interest.
Iwama, Genki ...............................Disclosed no conflict of interest.
Iwamoto, Masahiro .........................Disclosed no conflict of interest.
Iwaniec, Urszula T .........................Disclosed no conflict of interest.
Iwasaki, Hiroshi ............................Disclosed no conflict of interest.
Iwasaki, Kiyotaka ..........................Disclosed no conflict of interest.
Iwasaki, Koji ...............................5: Olympus Terumo Biomaterials Corp.
Iwasaki, Koji ...............................1: (Olympus Terumo Biomaterials.
Iwasaki, Koji ..............................Disclosed no conflict of interest.
Iwasaki, Norimasa ........................Disclosed no conflict of interest.
Iwase, Joji .................................Disclosed no conflict of interest.
Iwata, Shintaro ............................Disclosed no conflict of interest.
Ix, Joachim H. .............................Disclosed no conflict of interest.
Iyer, Avinash ...............................Disclosed no conflict of interest.
Iyer, Shama R .............................Disclosed no conflict of interest.
Iyer, Varun .......................... Disclosed no conflict of interest.
Iyer, Varun G ......................... Disclosed no conflict of interest.
Izadpanah, Kaywan .................. Disclosed no conflict of interest.
Izda, Vladislav ........................ Disclosed no conflict of interest.
Izuagbe, Samira ........................ Disclosed no conflict of interest.
Izumi, Masashi ........................ Disclosed no conflict of interest.
Izumi, Soutarou ........................ Disclosed no conflict of interest.
Jack, Robert .......................... Disclosed no conflict of interest.
Jackson, Alicia ........................ Disclosed no conflict of interest.
Jackson, Alicia R ...................... Disclosed no conflict of interest.
Jackson, Alicia R ...................... Disclosed no conflict of interest.
Jackson, Garrett ...................... Disclosed no conflict of interest.
Jackson, Jordan ....................... Disclosed no conflict of interest.
Jackson, Keith L ........................ Disclosed no conflict of interest.
Jackson, Nicholas J ................... Disclosed no conflict of interest.
Jacobs, Andrew J ...................... 3A: Acumed.
Jacobs, Cale .......................... Disclosed no conflict of interest.
Jacobs, Ian N .......................... Disclosed no conflict of interest.
Jacobs, Joshua J ...................... Disclosed no conflict of interest.
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Jacobsen, Hayley .................... Disclosed no conflict of interest.
Jacobsen, Timothy ................... Disclosed no conflict of interest.
Jacobson, Joseph .................... Disclosed no conflict of interest.
Jacus, Nicholas ...................... Disclosed no conflict of interest.
Jae Woong, Han ...................... Disclosed no conflict of interest.
Jagota, Ishaan ........................ 3A: 360 Med Care.

Jagwani, Satveer ...................... Disclosed no conflict of interest.

Jahandar, Amirhossein .............. Disclosed no conflict of interest.

Jahani, Babak ........................ Disclosed no conflict of interest.

Jahr, Holger .......................... Disclosed no conflict of interest.

Jain, Aditya ........................... Disclosed no conflict of interest.

Jain, Era ............................... Disclosed no conflict of interest.

Jain, Nitin ............................. Disclosed no conflict of interest.

Jain, Nitin B. ......................... Disclosed no conflict of interest.

Jaisson, Stephane .................... Disclosed no conflict of interest.

Jakubowitz, Eike .................... Disclosed no conflict of interest.

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James, Aaron ......................... 3C: Lifesprout LLC, Novadip LLC, 8: Bone Research, American Journal of Pathology.

James, Aaron ......................... 3B: Novadip.

James, Khara ........................ Disclosed no conflict of interest.

James, Mark N ........................ Disclosed no conflict of interest.

James, Tillman ....................... Disclosed no conflict of interest.

Jana, Aniket ......................... Disclosed no conflict of interest.

Jang, Kwi-Hoon ...................... Disclosed no conflict of interest.

Jang, Woo Young .................... Disclosed no conflict of interest.

Jang, Young .......................... Disclosed no conflict of interest.

Jangolla, Surya V .................... Disclosed no conflict of interest.

Janssen, Dennis ..................... 3B: Invibio Ltd, 5: Invibio Ltd.

Janssen, Dennis ..................... 3B: Invibio Ltd, 5: Depuy Synthes, Invibio Ltd, 8: Biomechanics section of HIP International.


Janssen, Dennis ..................... Disclosed no conflict of interest.

Janssen, Stein J. ..................... Disclosed no conflict of interest.
Jäntti, Jiri

Disclosed no conflict of interest.

Januszyk, Michael

Disclosed no conflict of interest.

Jarzem, Peter

Disclosed no conflict of interest.

Jasper, Ryan

Disclosed no conflict of interest.

Javidan, Yashar

Disclosed no conflict of interest.

Jawad, Ammar Y

Disclosed no conflict of interest.

Jaworski, Hayden M

Disclosed no conflict of interest.

Jay, Gregory D

3B: Lubris Biopharma, 4: Lubris Biopharma, 5: Lubris Biopharma, 6: Lubris Biopharma.

Jayaram, Rahul H

Disclosed no conflict of interest.

Jayasuriya, Chathuraka

Disclosed no conflict of interest.

Jayaswal, Daksh

Disclosed no conflict of interest.

Jbeily, Elias

Disclosed no conflict of interest.

Je Hong, Ryu

Disclosed no conflict of interest.

Jeffers, Jonathan

Disclosed no conflict of interest.

Jeffers, Matthew J

Disclosed no conflict of interest.

Jeffries, Matlock A

Disclosed no conflict of interest.

Jehpsson, Lars

Disclosed no conflict of interest.

Jekir, Michael

3A: NuVasive.

Jelliss, Paul

Disclosed no conflict of interest.

Jenk, Austin

Disclosed no conflict of interest.

Jenkins, Evan

Disclosed no conflict of interest.

Jenkins, Sarah

Disclosed no conflict of interest.

Jenner, Florien

Disclosed no conflict of interest.

Jennings, Jason

1: Total Joint Orthopedics, 3B: Xenex, 5: Depuy.

Jennings, Jessica A

5: Abbott Diabetes Care, Austin Medical Ventures, Chitozan Health, 7B: Elsevier.

Jennings, Louise

5: Mathys, DePuy Synthes, Invibio, MatOrtho.

Jennings, Louise

6: Mathys, DePuy Synthes, Invibio, MatOrtho.

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5: Mathys, Invibio, MatOrtho, DePuy Synthes.

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5: Mathys, DePuy Synthes, Invibio, MatOrtho.
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Jensen, Magnus .......................... Disclosed no conflict of interest.

Jeon, Oju ................................. Disclosed no conflict of interest.

Jeon, Saewha ............................. 4: Employer of the company who provided human dermal fibroblasts.

Jeong, Hun-Jin.......................... Disclosed no conflict of interest.

Jeong, Hyeon Jang ........................ Disclosed no conflict of interest.

Jeong, Jacob ............................... Disclosed no conflict of interest.

Jeong, Saerom ............................. Disclosed no conflict of interest.


Jerban, Saeed .............................. Disclosed no conflict of interest.

Jeremias, Maya A. ........................ Disclosed no conflict of interest.

Jeroen, Geurts ............................. Disclosed no conflict of interest.

Jerreld, Kyle ............................... Disclosed no conflict of interest.

Jesurajan, Jose ............................. Disclosed no conflict of interest.

Jethanandani, Rishabh ..................... Disclosed no conflict of interest.

Jewett, Maggie E .......................... Disclosed no conflict of interest.

Jeypalina, Sujee ........................... Disclosed no conflict of interest.

Jhaveri, Sameer ........................... Disclosed no conflict of interest.

Jhen-Wei, Chen ............................ Disclosed no conflict of interest.

Jia, Zhenshan ............................ 3B: Ensign Pharmaceutical, Inc.

Jiang, Chen ............................... Disclosed no conflict of interest.

Jiang, Dehua ............................... Disclosed no conflict of interest.

Jiang, Haochen ............................ Disclosed no conflict of interest.

Jiang, Jason ............................... Disclosed no conflict of interest.

Jiang, Jean ................................. Disclosed no conflict of interest.

Jiang, Peng ................................. Disclosed no conflict of interest.

Jiang, Wensen ............................. 4: Stock.

Jiang, Wensen ............................. Disclosed no conflict of interest.

Jiang, Xi ................................. Disclosed no conflict of interest.
Jiang, Zhaowei ............................ Disclosed no conflict of interest.
Jiang, Zhirui ................................ Disclosed no conflict of interest.
Jiao, Hongli ................................. Disclosed no conflict of interest.
Jibawi Rivera, Rade R ................. Disclosed no conflict of interest.
Jibawi Rivera, Rade R. ................. Disclosed no conflict of interest.
Jimenez, Andrew ....................... 8: Arthroscopy.
Jimenez, Andrew ........................ Disclosed no conflict of interest.
Jimenez, Andrew E ..................... Disclosed no conflict of interest.
Jimenez-Cruz, David .................. Disclosed no conflict of interest.
Jin, Li ...................................... Disclosed no conflict of interest.
Jin, Yuxuan ................................. Disclosed no conflict of interest.
Jing, Liufang .............................. Disclosed no conflict of interest.
Jinzaki, Masahiro ....................... Disclosed no conflict of interest.
Jo, Chris Hyunchul ...................... Disclosed no conflict of interest.
Jo, Suenghwan ........................... Disclosed no conflict of interest.
Joe, Temperato ........................... Disclosed no conflict of interest.
Joenathan, Anisha ...................... Disclosed no conflict of interest.
Joenathan, Anisha T .................... Disclosed no conflict of interest.
Joeng, Kyu-Sang ........................ Disclosed no conflict of interest.
Johal, Herman ............................ Disclosed no conflict of interest.
Johannesdottir, Fjola .................. Disclosed no conflict of interest.
John, Kwon ............................... Disclosed no conflict of interest.
Johnson, Abigayle ...................... Disclosed no conflict of interest.
Johnson, Benjamin T .................. Disclosed no conflict of interest.
Johnson, Benjamin T. ............... 6: Blue Cross Blue Shield.
Johnson, Camille ....................... Disclosed no conflict of interest.
Johnson, Camille C ..................... Disclosed no conflict of interest.
Johnson, Casey ............................. Disclosed no conflict of interest.
Johnson, Casey P ........................ Disclosed no conflict of interest.
Johnson, Casey P. ...................... 5: Medtronic.
Johnson, Casey P. .................. Disclosed no conflict of interest.
Johnson, Christopher ................ Disclosed no conflict of interest.
Johnson, Christopher K ............. Disclosed no conflict of interest.
Johnson, David ......................... Disclosed no conflict of interest.
Johnson, David L ....................... Disclosed no conflict of interest.
Johnson, Denae W ..................... Disclosed no conflict of interest.
Johnson, Donovan ..................... Disclosed no conflict of interest.
Johnson, Evan ......................... Disclosed no conflict of interest.
Johnson, Evan ........................
Johnson, James ....................... Disclosed no conflict of interest.
Johnson, James W ..................... Disclosed no conflict of interest.
Johnson, Joshua ...................... Disclosed no conflict of interest.
Johnson, Joshua E .................... Disclosed no conflict of interest.
Johnson, Lindsey ..................... Disclosed no conflict of interest.
Johnson, Marit ....................... Disclosed no conflict of interest.
Johnson, Roseann ..................... Disclosed no conflict of interest.
Johnson, Talayah ..................... Disclosed no conflict of interest.
Johnston, Brianna ..................... Disclosed no conflict of interest.
Johnston, Tyler ....................... Disclosed no conflict of interest.
Johnston, Tyler R ..................... Disclosed no conflict of interest.
Johnstone, Brian ...................... 7B: Royalties for the license of the patent of in vitro chondrogenesis of stem cells, 8: Editorial Board of eCM journal, 9: Serve as senior advisor on OREF Grants Committee.
Johnstone, Brian ..................... Disclosed no conflict of interest.
Joiner, Patrice ......................... Disclosed no conflict of interest.
Jonas, Margaret E ................... Disclosed no conflict of interest.
Jonason, Jennifer ..................... Disclosed no conflict of interest.
Jonathon, Jonathon ................... Disclosed no conflict of interest.
Jones, Alison ........................ Disclosed no conflict of interest.
Jones, Alison C ....................... 6: DePuy Synthes.
Jones, Arie .......................... Disclosed no conflict of interest.
Jones, Brandon .......................... Disclosed no conflict of interest.
Jones, Deborah .......................... Disclosed no conflict of interest.
Jones, Deryk ............................. Disclosed no conflict of interest.
Jones, Deryk G ........................... Disclosed no conflict of interest.
Jones, Gareth ............................ Disclosed no conflict of interest.
Jones, Gareth G .......................... Disclosed no conflict of interest.
Jones, Hailey ............................. Disclosed no conflict of interest.
Jones, Hugh .............................. Disclosed no conflict of interest.
Jones, Hugh L ............................ Disclosed no conflict of interest.
Jones, Ian A. .............................. Disclosed no conflict of interest.
Jones, Lynne ............................. Disclosed no conflict of interest.
Jones, Ryan ............................. Disclosed no conflict of interest.
Jones, Sumner ........................... Disclosed no conflict of interest.
Jonkers, Ilse ............................. Disclosed no conflict of interest.
Joo, Peter ............................... Disclosed no conflict of interest.
Joo, Peter Y .............................. Disclosed no conflict of interest.
Jordan, David ........................... Disclosed no conflict of interest.
Jordan, Steve ........................... 7A: Arthrex, Inc.
Jorden Xavier, Jorden Xavier .... Disclosed no conflict of interest.
Jorgetti, Vanda .......................... Disclosed no conflict of interest.
Joseph, Freeman ........................ Disclosed no conflict of interest.
Joseph, Katherine ........................ Disclosed no conflict of interest.
Joubert, Dustin .......................... Disclosed no conflict of interest.
Joukainen, Antti ......................... Disclosed no conflict of interest.
Journeaux, Simon ....................... 5: Smith & Nephew.
Joyce, Kieran ........................... Disclosed no conflict of interest.
Joyce, Michael .......................... Disclosed no conflict of interest.
Julien, Catherine ....................... Disclosed no conflict of interest.
Jun, Bong-Jae ........................... Disclosed no conflict of interest.
Jun, Bong-Jae ............................ 1: Viscus Biologics.

June, Ron .................................. 4: Beartooth Biotech.

June, Ron .................................. Disclosed no conflict of interest.

June, Ron .................................. 4: Ronald K. June owns stock in Beartooth Biotech which was not involved in this study.

June, Ron .................................. 4: Dr. June owns stock in Beartooth Biotech which was not involved in this study.

June, Ron K ................................ 4: Dr. June owns stock in Beartooth Biotech which was not involved in this study.

June, Ronald K............................ 4: Dr. June owns stock in Beartooth Biotech which was not involved in this study.

June, Ronald K............................ Disclosed no conflict of interest.

Jung Jeong, Hyo .......................... Disclosed no conflict of interest.

Jung, Amaury ............................. 3A: Blue-Ortho.

Jung, Bongseok .......................... Disclosed no conflict of interest.

Junginger, Lucas.......................... Disclosed no conflict of interest.

Jurynec, Mick .............................. Disclosed no conflict of interest.

Justice, Jordan ........................... Disclosed no conflict of interest.

Jutte, Paul C. .............................. Disclosed no conflict of interest.

Kaarre, Janina ............................. Disclosed no conflict of interest.

Kabata, Tamon ............................ Disclosed no conflict of interest.

Kabra, Apoorva ............................ Disclosed no conflict of interest.

Kacena, Melissa ........................... Disclosed no conflict of interest.

Kadkoy, Yazan ............................ Disclosed no conflict of interest.

Kadone, Hideki ........................... Disclosed no conflict of interest.

Kadono, Yuho .............................. Disclosed no conflict of interest.

Kadoya, Ken ............................... Disclosed no conflict of interest.

Kagda, Fareed Husain Yusuf ......... Disclosed no conflict of interest.

Kage, Tomofumi .......................... Disclosed no conflict of interest.

Kahan, Joseph B ......................... Disclosed no conflict of interest.

Kahle, Elizabeth R ...................... Disclosed no conflict of interest.
Kahlenberg, Cynthia .......................... Disclosed no conflict of interest.
Kaibara, Takuma .......................... Disclosed no conflict of interest.
Kaihara, Kenta .......................... Disclosed no conflict of interest.
Kaiser, Jarred .......................... Disclosed no conflict of interest.
Kajino, Yoshitomo .......................... Disclosed no conflict of interest.
Kakiage, Hibiki .......................... Disclosed no conflict of interest.
Kakiuchi, Yuji .......................... Disclosed no conflict of interest.
Kakutani, Kenichiro .......................... Disclosed no conflict of interest.
Kalajzic, Ivo .......................... Disclosed no conflict of interest.
Kalazjic, Ivo .......................... Disclosed no conflict of interest.
Kalia, Vishal .......................... Disclosed no conflict of interest.
Kalistratova, Venina S .......................... Disclosed no conflict of interest.
Kalshoven, Josephine M .......................... Disclosed no conflict of interest.
Kalshoven, Josephine M .......................... Disclosed no conflict of interest.
Kamada, Yoichiro .......................... Disclosed no conflict of interest.
Kamal, Fadia .......................... Disclosed no conflict of interest.
Kamaltdinov, Timur B .......................... Disclosed no conflict of interest.
Kamenaga, Tomoyuki .......................... Disclosed no conflict of interest.
Kamgar, Amirali .......................... Disclosed no conflict of interest.
Kamihata, Satoshi .......................... Disclosed no conflict of interest.
Kamilov, Ulugbek .......................... Disclosed no conflict of interest.
Kamimura, Masayuki .......................... Disclosed no conflict of interest.
Kamiya, Tomoaki .......................... Disclosed no conflict of interest.
Kamiya, Yasunari .......................... Disclosed no conflict of interest.
Kamm, Dakota R .......................... Disclosed no conflict of interest.
Kammien, Alexander J .......................... Disclosed no conflict of interest.
Kampi, Haji Mohammed .......................... 3A: Stryker.
Kamran, Mohammed Z .......................... Disclosed no conflict of interest.
KANAI, KENTA

Kanamoto, Takashi
Disclosed no conflict of interest.

Kanchi Subramani, NaveenKumar
3A: Stryker Spine.

Kanda, Yutaro
Disclosed no conflict of interest.

Kane, Gillian
Disclosed no conflict of interest.

Kane, Maureen
Disclosed no conflict of interest.

Kaneda, Giselle
4: Stock.

Kaneda, Giselle
Disclosed no conflict of interest.

Kaneda, Giselle
4: Crispr Therapeutics, Intuitive Surgical, Pfizer Inc.

Kanelis, Exarchos
Disclosed no conflict of interest.

Kanemura, Naohiko
Disclosed no conflict of interest.

Kaneoka, Takehiro
Disclosed no conflict of interest.

Kang, Ho Won
Disclosed no conflict of interest.

Kang, Innie Y
Disclosed no conflict of interest.

Kang, James
Disclosed no conflict of interest.

Kang, James D
Disclosed no conflict of interest.

Kang, Kevin K
Disclosed no conflict of interest.

Kanim, Linda
4: not related to topic of the research herein.

Kanim, Linda EA
4: Stock.

Kanniyappan, Hemalatha
Disclosed no conflict of interest.

Kanno, Seiji
Disclosed no conflict of interest.

Kano, Takuma
Disclosed no conflict of interest.

Kanter, Adam S
5: ZimmerBiomet, NuVasive.

Kanzaki, Noriyuki
Disclosed no conflict of interest.

Kaper, Bertrand P
2: Smith & Nephew, 3B: Smith & Nephew, 5: Smith & Nephew.

Kapilow, Jaclyn
Disclosed no conflict of interest.

Kaplan, Lee
Disclosed no conflict of interest.

Kaplan, Lee D
Disclosed no conflict of interest.

Kaplan, Mark
Disclosed no conflict of interest.
Kaplan, Nicolas …………Disclosed no conflict of interest.
Kappe, Thomas …………Disclosed no conflict of interest.
Kara, Mustafa …………Disclosed no conflict of interest.
KARAISMAILOGLU, BEDRI ……Disclosed no conflict of interest.
Karam, Joseph …………Disclosed no conflict of interest.
Karam, Joseph A …………Disclosed no conflict of interest.
Karam, Jospeh …………Disclosed no conflict of interest.
Karamian, Brian …………8: Clinical Spine Surgery.
Karasch, Rick …………Disclosed no conflict of interest.
Karczewski, Daniel …………Disclosed no conflict of interest.
Kargl, Chris …………Disclosed no conflict of interest.
Karhula, Sakari S …………Disclosed no conflict of interest.
Karimi, Davood …………Disclosed no conflict of interest.
Karimzadeh, Makan …………Disclosed no conflict of interest.
Karjalainen, Kalle …………Disclosed no conflict of interest.
Karjalainen, Kalle J …………Disclosed no conflict of interest.
Karjalainen, Ville-Pauli …………Disclosed no conflict of interest.
Karkache, Ismael Y …………Disclosed no conflict of interest.
Karlsson, Magnus …………Disclosed no conflict of interest.
Karner, Courtney …………Disclosed no conflict of interest.
Karner, Courtney M …………Disclosed no conflict of interest.
Karol, Agnieszka …………Disclosed no conflict of interest.
Karuppa gounder, Vengadeshprabhu Disclosed no conflict of interest.
Karuppagounder, Vengadeshprabhu Disclosed no conflict of interest.
Kashanian, Koorosh …………Disclosed no conflict of interest.
Kashihara, Minoru …………Disclosed no conflict of interest.
Kasler, Herbert …………Disclosed no conflict of interest.
Kassab, Jordan …………Disclosed no conflict of interest.
Kassel, Brandon S …………Disclosed no conflict of interest.
Katagiri, Hiroki …………Disclosed no conflict of interest.
Katakura, Mai .......................... Disclosed no conflict of interest.
Kataoka, Kiminari ...................... Disclosed no conflict of interest.
Kato, Ikuma ............................ Disclosed no conflict of interest.
Kato, Jiro ............................... Disclosed no conflict of interest.
Kato, Kenji ............................. Disclosed no conflict of interest.
KATO, TATSUO ......................... Disclosed no conflict of interest.
Katoh, Hiroyuki ......................... Disclosed no conflict of interest.
Katz, Austen ............................ Disclosed no conflict of interest.
Katz, Eitan .............................. Disclosed no conflict of interest.
Katz, Jeffrey N ......................... Disclosed no conflict of interest.
Katz, Lee D .............................. Disclosed no conflict of interest.
Katz, Zoe ................................. Disclosed no conflict of interest.
Kaufman, Kenton ....................... Disclosed no conflict of interest.
Kaufman, Kenton R .................... Disclosed no conflict of interest.
Kaufmann, Robert A ................... Disclosed no conflict of interest.
Kaur, Kulwinder Kaur ................. Disclosed no conflict of interest.
Kaushal, Neil ........................... Disclosed no conflict of interest.
Kaushal, Shankar G ................... Disclosed no conflict of interest.
Kautz, Steven ........................... Disclosed no conflict of interest.
Kawabata, Atsuyuki ................... Disclosed no conflict of interest.
Kawabata, Sora ........................ Disclosed no conflict of interest.
Kawabata, Yusuke ..................... Disclosed no conflict of interest.
Kawae, Yuta ............................. Disclosed no conflict of interest.
Kawaguchi, Kohei ..................... Disclosed no conflict of interest.
Kawaguchi, Koki ....................... Disclosed no conflict of interest.
Kawai, Akira ........................... Disclosed no conflict of interest.
Kawai, Hideki ......................... 6: ITO CO., LTD.
Kawakami, Kensaku ................... Disclosed no conflict of interest.
Kawakami, Takehiro ................... Disclosed no conflict of interest.
Kawamoto, Teruya ..................... Disclosed no conflict of interest.
Kawamura, Daisuke..............Disclosed no conflict of interest.
Kawano, Shunsuke ..............Disclosed no conflict of interest.
Kawasaki, Keikichi .............Disclosed no conflict of interest.
Kay, Ph.D., John F. .............3B: BioHelp, LLC.
Kay, Walker.....................Disclosed no conflict of interest.
Kazemi, Masumeh..............Disclosed no conflict of interest.
Kazmers, Nikolas..............Disclosed no conflict of interest.
Kazuki, Hirose................Disclosed no conflict of interest.
Kean, Thomas J..............4: ABT, AZN, FATE, FUJIY, GILD, GWW, VSTM.
Keefer, Ryan ..................3A: DePuy Synthes Joint Reconstruction, 4: Johnson & Johnson.
Keefer, Ryan..................3A: DePuy Synthes Joint Reconstruction.
Keene, Greg ...................Disclosed no conflict of interest.
Keener, Jay D................Disclosed no conflict of interest.
Keener, Jay D................1: Stryker, Shoulder Innovations, 3B: Stryker, 8: Seminars in Arthroplasty: JSES.
Keeney, James ................3B: DePuy, Flexion Therapeutics, Heron Therapeutics, 8: Journal of Hip Surgery, Journal of Knee Surgery, Orthopedics, 9: AAHKS, AOA, MAOA, MSOA.
Keeney, James ................3B: DePuy, Flexion Therapeutics, Heron Therapeutics, 8: Journal of Hip Surgery, Orthopedics, 9: AAHKS, AOA, MAOA, MSOA.
Keeney, James A................3B: DePuy, Flexion Therapeutics, Heron Therapeutics, 8: J of Hip Surgery, J of Knee Surgery, Orthopedics, 9: AAHKS, AOA, MAOA, MSOA.
Keeney, James A................3B: DePuy, Flexion Therapeutics, Heron Therapeutics, 8: Journal of Hip Surgery, Journal of Knee Surgery, 9: AAHKS, AOA, MAOA, MSOA.
Keeter, Carson................Disclosed no conflict of interest.
Keith Lang, Sinaia...........Disclosed no conflict of interest.
Kel, Amey......................Disclosed no conflict of interest.
Kellam, James F..............Disclosed no conflict of interest.
Kellam, Patrick...............Disclosed no conflict of interest.
Keller, Camryn...............Disclosed no conflict of interest.
Kelley, Joshua..............Disclosed no conflict of interest.
Kelley, Judas................Disclosed no conflict of interest.
Kelley, Kathryn ......................................Disclosed no conflict of interest.
Kelly, Cambre ........................................3A: restor3D.
Kelly, Daniel .........................................Disclosed no conflict of interest.
Kelly, Daniel J ........................................5: Johnson & Johnson.
Kelly, Kirsten ........................................Disclosed no conflict of interest.
Kelly, Ryan ............................................Disclosed no conflict of interest.
Kelly, Ryan R ..........................................Disclosed no conflict of interest.
Kelsheimer, Alexander .................................Disclosed no conflict of interest.
Kempen, Diederik H. R ...............................Disclosed no conflict of interest.
Kenawy, Hagar .......................................Disclosed no conflict of interest.
Kenawy, Hagar M .................................Disclosed no conflict of interest.
Kendal, Joseph .......................................Disclosed no conflict of interest.
Kennedy, Christopher S ..........................3A: Skeletal Tissue Engineering Laboratory.
Kennedy, Christopher S ..............................Disclosed no conflict of interest.
Kennedy, Leah .......................................Disclosed no conflict of interest.
Kennedy, Oran D .....................................Disclosed no conflict of interest.
Kennedy, Sean .......................................Disclosed no conflict of interest.
Kenneth, Faber J ....................................3B: Exactech Inc.
Kenney, H. Mark .....................................Disclosed no conflict of interest.
Kent, Robert N .......................................Disclosed no conflict of interest.
Kenter, Keith ..........................................Disclosed no conflict of interest.
Kepler, Christopher .........................6: Biomet, medtronic, pfizer, regeneration technologies, 8: Clinical Spine Surgery.
Kepler, Christopher K .......................8: Editorial Board, Clinical Spine Surgery.
Kepler, Christopher K ......................Disclosed no conflict of interest.
KER, Dai Fei Elmer ...............................Disclosed no conflict of interest.
Kerdjoudj, Halima ................................Disclosed no conflict of interest.
Kerkhof, Faes D .....................................Disclosed no conflict of interest.
Kern, Michael ........................................5: NeuroSpine Foundation who coordinate and manage the patient database receive institutional support: Life Health Care, NuVasive, Signus.
Kersh, Mariana E ..............................Disclosed no conflict of interest.
Kershaw, Lucy ......................... *Disclosed no conflict of interest.*
Kersting, Uwe ......................... *Disclosed no conflict of interest.*
Kersting, Uwe G ....................... *Disclosed no conflict of interest.*
Kersting, Uwe G ....................... *Disclosed no conflict of interest.*
Kerveillant, Florian .................. 3A: Blue-Ortho.
Kessell, Karen ....................... *Disclosed no conflict of interest.*
Ketonis, Constantinos .............. *Disclosed no conflict of interest.*
Khademhosseini, Ali ................ *Disclosed no conflict of interest.*
Khajuria, Deepak Kumar ............ *Disclosed no conflict of interest.*
Khalid, Aysha ......................... *Disclosed no conflict of interest.*
Khalid, Aysha B ...................... *Disclosed no conflict of interest.*
Khan, Ali ................................ *Disclosed no conflict of interest.*
Khan, Haneef ......................... *Disclosed no conflict of interest.*
Khan, Mariam ......................... 3A: Employed by DePuy International Ltd.
Khan, Marjan ......................... *Disclosed no conflict of interest.*
Khan, Mohd Nazir .................... *Disclosed no conflict of interest.*
Khan, Safdar ......................... *Disclosed no conflict of interest.*
Khan, Shahid ......................... *Disclosed no conflict of interest.*
Khanna, Ankur ....................... *Disclosed no conflict of interest.*
Khatibzadeh, Sarah M .............. *Disclosed no conflict of interest.*
Khatri, Vishal ....................... *Disclosed no conflict of interest.*
Khattab, Karim ....................... *Disclosed no conflict of interest.*
Khazzam, Michael ................... *Disclosed no conflict of interest.*
Kheir, Michael ....................... *Disclosed no conflict of interest.*
Kheir, Michael M .................... *Disclosed no conflict of interest.*
Khetani, Salman ..................... *Disclosed no conflict of interest.*
Khilnani, Tyler ..................... *Disclosed no conflict of interest.*
Khilnani, Tyler K ................. 2: Medtronic: Paid presenter or speaker, 8: Phlebology: The Journal of Venous Disease: Editorial or governing board, 9: American Board of Venous and Lymphatic Medicine:
Board or committee member, Foundation for Venous and Lymphatic Medicine: Board or committee member.

**Khodadadi Jokar, Mahdis**..........*Disclosed no conflict of interest.*

**Khomeijani Farahani, Saeed** .....*Disclosed no conflict of interest.*

**Khoo, Stephanie** .......................*Disclosed no conflict of interest.*

**Khoshbin, Amir** .........................*Disclosed no conflict of interest.*

**Khot, Ruchika** .........................*Disclosed no conflict of interest.*

**Khullar, Piyush** ..........................3A: Medtronic.

**Kiapour, Ali** .........................*Disclosed no conflict of interest.*

**Kiapour, Ata** .........................*Disclosed no conflict of interest.*


**Kida, Hiroaki** ............................*Disclosed no conflict of interest.*

**Kida, Yoshikazu** ............................*Disclosed no conflict of interest.*

**Kidane, Yared** ............................*Disclosed no conflict of interest.*

**Kido, Masamitsu** ............................*Disclosed no conflict of interest.*

**Kido, Yusuke** ............................*Disclosed no conflict of interest.*

**Kiel, Douglas P** ............................*Disclosed no conflict of interest.*

**Kii, Sakumo** ............................*Disclosed no conflict of interest.*

**Kikuchi, Kenichi** ............................*Disclosed no conflict of interest.*

**Kilburg, Jacob** ............................*Disclosed no conflict of interest.*

**Killian, Megan L** .........................9: Co-Chair of Women’s Leadership Forum.

**Killian, Megan L** .........................*Disclosed no conflict of interest.*

**Killian, Megan L** .........................9: Women’s Leadership Forum co-chair.

**Kilway, Kathleen V.** ............................*Disclosed no conflict of interest.*

**Kim, Andrew** ............................*Disclosed no conflict of interest.*
Kim, Byoung Hyuck .................. Disclosed no conflict of interest.
Kim, Byumsu .......................... Disclosed no conflict of interest.
Kim, Carolyn .......................... Disclosed no conflict of interest.
Kim, Cheeho ........................... Disclosed no conflict of interest.
Kim, Dae-Yoo .......................... Disclosed no conflict of interest.
Kim, David .............................. Disclosed no conflict of interest.
Kim, David N ............................ Disclosed no conflict of interest.
Kim, David N. ........................... Disclosed no conflict of interest.
Kim, Do-Gyoon .......................... Disclosed no conflict of interest.
Kim, Dong Hwa .......................... Disclosed no conflict of interest.
Kim, Dong Hyun .......................... Disclosed no conflict of interest.
Kim, Eunji ............................... Disclosed no conflict of interest.
Kim, Hak Jae ............................. Disclosed no conflict of interest.
Kim, Heejong ............................. Disclosed no conflict of interest.
Kim, Hong Seok .......................... Disclosed no conflict of interest.
Kim, Hubert ............................... Disclosed no conflict of interest.
Kim, Hyang ............................... Disclosed no conflict of interest.
Kim, Hyojune ............................. Disclosed no conflict of interest.
Kim, Hyungtaek .......................... Disclosed no conflict of interest.
Kim, Jaeyoung ............................ Disclosed no conflict of interest.
Kim, Jeonghyun ........................... Disclosed no conflict of interest.
Kim, Jin-Young ........................... Disclosed no conflict of interest.
Kim, Jin-Young Y ........................ Disclosed no conflict of interest.
Kim, Jonathan ............................ Disclosed no conflict of interest.
Kim, Ki Chun .............................. Disclosed no conflict of interest.
Kim, Mark (Min Kyu) .................... Disclosed no conflict of interest.
Kim, Matthew ............................. Disclosed no conflict of interest.

Kim, Mike .................................. 3B: Stryker, 8: Associate editor of Journal of Bone and Joint Surgery Case Connector, Associate editor of Shoulder and Elbow Arthroplasty, Editorial Review Board of Journal of Orthopaedic Research, 9: Research committee member of ASES (American Shoulder and Elbow Surgeons, Shoulder and Elbow Program Committee member of AAOS (American Academy of Orthopaedic Surgeons).
Kim, Minji.......................Disclosed no conflict of interest.
Kim, Minwook ..................Disclosed no conflict of interest.
Kim, Olivia S...................Disclosed no conflict of interest.
Kim, Paul........................Disclosed no conflict of interest.
Kim, Seoyeon....................Disclosed no conflict of interest.
Kim, Seul-Ki.....................Disclosed no conflict of interest.
Kim, Sung Eun...................Disclosed no conflict of interest.
Kim, Sung-Hwan................Disclosed no conflict of interest.
Kim, Tae Won B................Disclosed no conflict of interest.
Kim, Wooyoung..................Disclosed no conflict of interest.
Kim, Yi-Suk......................Disclosed no conflict of interest.
Kim, Young Kyu................Disclosed no conflict of interest.
Kim, Young-Jo...................Disclosed no conflict of interest.
Kim, Young-Jo...................3C: Orthopediatrics, 4: Cytex, Imagen, 8: J Hip Preservation Surgery, Orthopedics Review, Osteoarthritis & Cartilage.
Kimmerling, Kelly ................3A: Organogenesis.
Kimmerling, Kelly A.............3A: Organogenesis.
Kimura, Atsushi................Disclosed no conflict of interest.
Kimura, Soichiro................Disclosed no conflict of interest.
King, Christina D..............Disclosed no conflict of interest.
King, George L..................8: Sunstar Foundation, Thomas Beatson, Jr. Foundation.
King, Shannon..................3A: Enovis Foot & Ankle.
Kingery, Matthew...............Disclosed no conflict of interest.
Kink, John A....................Disclosed no conflict of interest.
Kinnerk, Kyle...................Disclosed no conflict of interest.
Kiral, Elaina...................Disclosed no conflict of interest.
Kirchmeier, Andrew K ........Disclosed no conflict of interest.
Kiridly, Daniel................Disclosed no conflict of interest.
Kirisawa, Masahiro.............Disclosed no conflict of interest.
Kirkpatrick, John..............Disclosed no conflict of interest.
Kirkpatrick, John S disclosed no conflict of interest.
Kirnaz, Sertaç disclosed no conflict of interest.
Kirsch, David G disclosed no conflict of interest.
Kirsch, Thorsten disclosed no conflict of interest.
Kiss-Toth, Endre disclosed no conflict of interest.
KITAHARA, Keita disclosed no conflict of interest.
Kitazono, Takanari disclosed no conflict of interest.
Kitsuya, Nayu disclosed no conflict of interest.
Kittaka, Mizuho disclosed no conflict of interest.
Kitziger, Raymond L disclosed no conflict of interest.
Klamer, Brett disclosed no conflict of interest.
Klass, Amanda disclosed no conflict of interest.
Klatte-Schulz, Franka disclosed no conflict of interest.
Klaus-Bergmann, Alexandra disclosed no conflict of interest.
Klein, Travis J 4: Gelomics Pty Ltd, 5: Gelomics Pty Ltd, 8: Frontiers in Bioengineering and Biotechnology.
Kleiner, Jeff 3A: Kleiner Device Labs, 4: Kleiner Device Labs.
Kleven, Andrew disclosed no conflict of interest.
Klifto, Chris disclosed no conflict of interest.
Klika, Alison disclosed no conflict of interest.
Klimak, Molly disclosed no conflict of interest.
Klineberg, Eric disclosed no conflict of interest.
Klineberg, Eric 3B: Depuy Johnson and Johnson, Medicrea, Medtronic, Stryker, 9: AO Spine.
Klinger, Craig E disclosed no conflict of interest.
Klonowski, Ellen M disclosed no conflict of interest.
Kloser, Heidi disclosed no conflict of interest.
Kluess, Daniel disclosed no conflict of interest.
Kluppel, Michael disclosed no conflict of interest.
Kluser, Nadine disclosed no conflict of interest.
Kluz, Paige disclosed no conflict of interest.
Klyne, David M .......................... Disclosed no conflict of interest.
Knapik, Derrick .......................... 7A: Arthrex, Smith and Nephew.
Knapp, Emma .......................... Disclosed no conflict of interest.
Knight, Benjamin T .................... Disclosed no conflict of interest.
Knight, Eleanor .......................... Disclosed no conflict of interest.
Knights, Alexander .................... Disclosed no conflict of interest.
Knopp, Brandon W .......................... Disclosed no conflict of interest.
Knowles, Nikolas .......................... Disclosed no conflict of interest.
Knue, Joseph D .......................... Disclosed no conflict of interest.
Knutson, Kas .......................... Disclosed no conflict of interest.
KO, EUNAE .......................... Disclosed no conflict of interest.
Ko, Ji-Yun .......................... Disclosed no conflict of interest.
Kobashi, Syoji .......................... Disclosed no conflict of interest.
Kobayashi, Daigo .......................... Disclosed no conflict of interest.
Kobayashi, Eisuke .......................... Disclosed no conflict of interest.
Kobayashi, Hideyuki .......................... Disclosed no conflict of interest.
Kobayashi, Makoto .......................... Disclosed no conflict of interest.
Kobayashi, Naomi .......................... Disclosed no conflict of interest.
Kobayashi, Yusuke .......................... Disclosed no conflict of interest.
Kobe, Alexandra .......................... Disclosed no conflict of interest.
Koblenzer, Maximilian .......................... Disclosed no conflict of interest.
Kobori, Yu .......................... Disclosed no conflict of interest.
Kobrin, Andriy .......................... Disclosed no conflict of interest.
Kobryn, Andriy .......................... Disclosed no conflict of interest.
Kocan, Joe .......................... Disclosed no conflict of interest.
Koch, Cameron .......................... Disclosed no conflict of interest.
Koch, Drew W .......................... Disclosed no conflict of interest.
Kocher, Mininder S .................... Disclosed no conflict of interest.
Kocher, Mininder S .................... 3B: Orthopediatrics, Ossur, Smith & Nephew, 7B: Elsevier, Wolters Kluwer Health - Lippincott Williams & Wilkins.
Kocis, Paul  Disclosed no conflict of interest.
Kodigudla, Manoj  Disclosed no conflict of interest.
Koerner, Jason  Disclosed no conflict of interest.
Koff, Matthew  Disclosed no conflict of interest.
Koff, Matthew F.  Disclosed no conflict of interest.
Koga, Hideyuki  Disclosed no conflict of interest.
Koga, Hideyuki 6: Arthrex.
Koga, Maho  Disclosed no conflict of interest.
Koguchi, Masashi  Disclosed no conflict of interest.
Koh, Jason 3B: 4-Acuitive, Flexion, Marrow Access Technologies.
Koh, Jason  Disclosed no conflict of interest.
Koh, Kyoung Hwan  Disclosed no conflict of interest.
Kohler, Rachel  Disclosed no conflict of interest.
Kohli, Ajay  Disclosed no conflict of interest.
Kohn, David  Disclosed no conflict of interest.
Kohyama, Sho  Disclosed no conflict of interest.
Koichiro, Ide  Disclosed no conflict of interest.
Kojima, Takuma  Disclosed no conflict of interest.
Kokabu, Terufumi  Disclosed no conflict of interest.
Kokinos, Brittney P.  Disclosed no conflict of interest.
Kokubun, Takanori  Disclosed no conflict of interest.
Kolevar, Matthew  Disclosed no conflict of interest.
Koljonen, Paul A.  Disclosed no conflict of interest.
Kolliopoulos, Vasiliki  Disclosed no conflict of interest.
Koltsov, Jayme C B.  Disclosed no conflict of interest.
Komarova, Svetlana  Disclosed no conflict of interest.
Komatsu, David  Disclosed no conflict of interest.

Konda, Shoji...............................Disclosed no conflict of interest.

Kondiboyina, Vineel ..................Disclosed no conflict of interest.

Kondo, Ayana .........................Disclosed no conflict of interest.

Kondo, Eiji ..............................Disclosed no conflict of interest.

Kondo, Eiji ..............................1: Olympus Terumo Biomaterials, Smith &Nephew.

Kondo, Hiroya .........................Disclosed no conflict of interest.

Kondo, Makoto .........................Disclosed no conflict of interest.

Kondrashov, Dimitriy ..............3B: SI Bone, Spineart, 5: AO Foundation.

Kondrashov, Dimitriy ..............1: Spineart, 3B: SI Bone, Spineart, 6: AO Foundation.

Koneru, Manisha ........................Disclosed no conflict of interest.

Kong, Shana .........................Disclosed no conflict of interest.

Konno, Yuki ..............................Disclosed no conflict of interest.

Kono, Kenichi ..............................Disclosed no conflict of interest.

Kono, Sotaro ..............................Disclosed no conflict of interest.

Kontaxis, Andreas ......................Disclosed no conflict of interest.

Koo, Alexander ........................Disclosed no conflict of interest.

Koo, Seungbum .......................Disclosed no conflict of interest.

Kops, Nicole ..............................Disclosed no conflict of interest.

Korb-Pap, Adelheid ......................Disclosed no conflict of interest.

Korcari, Antonion ......................Disclosed no conflict of interest.

Korhonen, Rami ........................Disclosed no conflict of interest.


Korhonen, Rami K. ......................Disclosed no conflict of interest.

Korley, Robert .......................Disclosed no conflict of interest.

Korne, Farida ..............................Disclosed no conflict of interest.

Korttner, Stefanie H .....................Disclosed no conflict of interest.

Koroneos, Zachary ......................Disclosed no conflict of interest.
Koroth, Jinsha ……………………………*Disclosed no conflict of interest.*

Korsun, Maximilian ……………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Koshar, Antoan ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kositsky, Adam ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kosnik, Sabrina ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kosugiyama, Hironobu ……………………………………………………………………………………………………………..*Disclosed no conflict of interest.*

Kotelsky, Alexander ………………………………………………………………………………………………………………..*Disclosed no conflict of interest.*

Kothari, Priyanka ………………………………………………………………………………………………………………….*3A: Nextcure.*

Kotoura, Yoshihiro ………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Koudys, Zachary J ………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kouroupis, Dimitrios ……………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kowalski, Christopher …………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kowalski, Erik ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kowalski, Erik ……………………………………………………………………………………………………………………….*6: Institutional support for this research was provided by MicroPort Orthopedics.*

Koyama, Eiki ………………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Koyama, Takafumi ………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Koyama, Tomoki ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Koyanagi-Aoi, Michiko …………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Koyanagi-Aoi, Michiyo ……………………………………………………………………………………………………………..*Disclosed no conflict of interest.*

Kozaki, Takuhei ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kozloff, Kenneth ……………………………………………………………………………………………………………………..*Disclosed no conflict of interest.*

Kozono, Naoya ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kraay, Matthew ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kraehenbuehl, Nicola ……………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Krähenbühl, Nicola ………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Kramer, Dennis E ………………………………………………………………………………………………………………….*3B: Miach Orthopaedics, Johnson & Johnson, 7A: Arthrex, Inc.*

Kramer, Jacob S ……………………………………………………………………………………………………………………..*Disclosed no conflict of interest.*

Kramer, Jacob S. ……………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*

Krause, Peter ………………………………………………………………………………………………………………………….*Disclosed no conflict of interest.*
Krause, Peter C .......................... Disclosed no conflict of interest.
Kremen, Thomas ......................... 8: AJSM; AOSSM.
Kreulin, Christopher ..................... 1: Arthrex, Restor3D, 3B: Restor3D, Arthrex, Synthes, 5: Arthrex, Wright Medical, Envois/Medshape.
Kreviazuk, Cheryl ....................... Disclosed no conflict of interest.
Kridel, William ............................ Disclosed no conflict of interest.
Krishnagiri Tupal, Meghna .......... Disclosed no conflict of interest.
Krishnan, Ahilan Anantha ............. Disclosed no conflict of interest.
Krishnan, Pranav ......................... Disclosed no conflict of interest.
Kriska, Tom ................................. 3A: Zimmer Biomet.
Kritschil, Rebecca ....................... Disclosed no conflict of interest.
Kröger, Heikki ............................. Disclosed no conflict of interest.
Kronenberg, Daniel ...................... Disclosed no conflict of interest.
Kroon, Tori ................................. Disclosed no conflict of interest.
Kropf, Michael ............................ Disclosed no conflict of interest.
Krosshaug, Tron ............................ Disclosed no conflict of interest.
Kroupa, Kimberly R ..................... Disclosed no conflict of interest.
Krug, Roland .............................. Disclosed no conflict of interest.
Krüger, Benjamin ....................... Disclosed no conflict of interest.
Kruger, Karen ............................. Disclosed no conflict of interest.
Kruger, Karen M. ....................... Disclosed no conflict of interest.
Kruse, Amelia ............................. Disclosed no conflict of interest.
Kruse, Amelia ............................. 6: Siemens Healthineers.
Kruse, Ryan ............................... Disclosed no conflict of interest.
Krussig, Mario ............................ Disclosed no conflict of interest.
Krych, Aaron ............................. Disclosed no conflict of interest.
Krzak, Joseph J. ......................... Disclosed no conflict of interest.
Ksajikian, Andre ......................... Disclosed no conflict of interest.
Kuah, Amida F ............................ Disclosed no conflict of interest.
Kubik, Michael ......................... Disclosed no conflict of interest.
Kubo, Tadashi ............................... Disclosed no conflict of interest.
Kubota, Shigeki .......................... Disclosed no conflict of interest.
Kucharik, Michael P ..................... Disclosed no conflict of interest.
Kuchynsky, Kyle S ....................... Disclosed no conflict of interest.
Kuenze, Christopher .................... 3B: Inova Health Systems, 8: Journal of Athletic Training.
Kuenze, Christopher .................... 3B: Research analyst for Inova Health System, 8: Associate editor for the Journal of Athletic Training.
Kuijpers, Gemma .......................... Disclosed no conflict of interest.
Kukita, Akiko .............................. Disclosed no conflict of interest.
Kulber, David ............................. 9: MTF.
Kulzhanova, Gulzada ..................... Disclosed no conflict of interest.
Kumabe, Yohei ............................. Disclosed no conflict of interest.
Kumagai, Naotoshi ....................... Disclosed no conflict of interest.
Kumar, Anika .............................. Disclosed no conflict of interest.
Kumar, Atin ............................... Disclosed no conflict of interest.
Kumar, Devendra ......................... Disclosed no conflict of interest.
Kumar, Dhiraj ............................. Disclosed no conflict of interest.
Kumar, Pradip ............................. Disclosed no conflict of interest.
Kumar, Shreedevi ......................... Disclosed no conflict of interest.
Kumar, Surabhi ........................... Disclosed no conflict of interest.
Kun, Wang ................................. Disclosed no conflict of interest.
Kunath, Brian ............................. Disclosed no conflict of interest.
Kunath, Brian A ........................... Disclosed no conflict of interest.
Kunisada, Toshiyuki ...................... Disclosed no conflict of interest.
Kunze, Kyle N ............................ Disclosed no conflict of interest.
Kuo, Catherine K ......................... Disclosed no conflict of interest.
Kupratis, Meghan E ..................... Disclosed no conflict of interest.
Kurakazu, Ichiro .................................. Disclosed no conflict of interest.
Kurapaty, Steven .................................. Disclosed no conflict of interest.
Kuriyama, Shinichi .................................. Disclosed no conflict of interest.
Kuriyama, Shinichi .................................. 5: Olympus-Terumo Biomaterials Corp.
Kurnik, Christopher .................................. Disclosed no conflict of interest.
Kuroda, Ryosuke .................................. Disclosed no conflict of interest.
Kuroda, Yuichi .................................. Disclosed no conflict of interest.
Kuroiwa, Tomoyuki .................................. Disclosed no conflict of interest.
Kuroki, Hiroshi .................................. 6: ITO CO., LTD.
Kuroki, Keiichi .................................. Disclosed no conflict of interest.
Kuroshima, Kohei .................................. Disclosed no conflict of interest.
Kurttila, Väinö .................................. Disclosed no conflict of interest.
Kurtz, Michael A .................................. Disclosed no conflict of interest.
Kurtz, Peter .................................. Disclosed no conflict of interest.
Kurtz, Steve M .................................. 2: Exponent, Gyroid, 3B: Exponent, Gyroid, 5: 3Spine, Carbofix, Celanese, Ceramtec, DePuy Synthes, DJO Global, Ferring Pharmaceuticals, Formae, Invibio, Lima Corporate Orthoplastics, Osteal Therapeutics, Simplify Medical, SINTX Technologies, Stryker, Wright Medical, Zimmer Biomet, 6: Exponent, Gyroid6; 7B: Elsevier7B.
Kurtz, Steven M .................................. 2: Exponent, Gyroid, 5: 3Spine, Carbofix, Celanese, Ceramtec, DePuy Synthes, DJO Global, Formae, Invibio, Lima Corporate, Orthoplastics, Osteal Therapeutics, Simplify Medical, SINTX Technologies, Stryker, Wright Medical Technology, Zimmer Biomet, 6: Exponent, Gyroid6; 7B: Elsevier7B.
Kusaba, Yohei .................................. Disclosed no conflict of interest.
Kushioka, Junichi .................................. Disclosed no conflict of interest.
Kusins, Jonathan .................................. 3A: NuVasive.
Kusler, Jason E .................................. Disclosed no conflict of interest.
Kusnezov, Nick .................................. Disclosed no conflict of interest.
Kusunose, Masaya .................................. Disclosed no conflict of interest.
Kuwahara, Masanari .................................. Disclosed no conflict of interest.
Kuwashima, Umito Disclosed no conflict of interest.
Kuyl, Emile-Victor Disclosed no conflict of interest.
Kwak, Dae-Kyung Disclosed no conflict of interest.
Kwak, Dai-Soon Disclosed no conflict of interest.
Kwak, Daniel Disclosed no conflict of interest.
Kwan, Kenny Y. H. Disclosed no conflict of interest.
Kwasny, Jasper Disclosed no conflict of interest.
Kwoh, Kent Disclosed no conflict of interest.
Kwok, Bryan Disclosed no conflict of interest.
Kwon, On-Jak Disclosed no conflict of interest.
Kwon, Young-Min Disclosed no conflict of interest.
Kyathsandra, Nisha Disclosed no conflict of interest.
Kyung, Min Gyu Disclosed no conflict of interest.
L. Soles, Gillian Disclosed no conflict of interest.
La Barbera, Luigi Disclosed no conflict of interest.
La Fontaine, Javier Disclosed no conflict of interest.
Labus, Kevin Disclosed no conflict of interest.
Lacey, Melissa Disclosed no conflict of interest.
Lackington, William Disclosed no conflict of interest.
Lackner, Jeffrey M. Disclosed no conflict of interest.
Lacombe, Nolan 3A: Nolan Lacombe.
LaCour, Michael

Lacroix, Courtney Disclosed no conflict of interest.
Ladd, Amy L Disclosed no conflict of interest.
Laedermann, Alexander 3A: Stryker, Arthrex and Medacta. He is the founder of BeeMed and Med4Cast.
Laende, Elise Disclosed no conflict of interest.
Lai, Alon Disclosed no conflict of interest.
Lais, Paul ..............................Disclosed no conflict of interest.
Laiwalla, Rahim ........................Disclosed no conflict of interest.
Lakadamyali, Melike ..................Disclosed no conflict of interest.
Lake, Spencer ..........................Disclosed no conflict of interest.
Lake, Spencer P. ........................Disclosed no conflict of interest.
Lakenberg, Nico ........................Disclosed no conflict of interest.
Lakkasetter Chandrashekar, Bhuvana  Disclosed no conflict of interest.
Lalevee, Matthieu ......................Disclosed no conflict of interest.
Lalka, Andy ............................Disclosed no conflict of interest.
Lall, Jonathan S .......................Disclosed no conflict of interest.
Lalone, Emily ..............................Disclosed no conflict of interest.
Lam, Aaron ...............................Disclosed no conflict of interest.
Lam, Casey ...............................Disclosed no conflict of interest.
Lama, John ...............................Disclosed no conflict of interest.
Lamanna, Daniel .......................Disclosed no conflict of interest.
Lamb, Nathan ............................Disclosed no conflict of interest.
Lambers, Floor M .......................3A: Stryker.
Lambert, Bradley ..........................5: Delfi Medical Innovations, Major League Baseball.
Lambi, Alex G ............................Disclosed no conflict of interest.
Lambrechts, Mark J .....................8: Editorial Board, Clinical Spine Surgery.
Lambrechts, Mark J .....................Disclosed no conflict of interest.
Lamia, Syeda ..............................Disclosed no conflict of interest.
Lammlin, Lindsey .......................Disclosed no conflict of interest.
Lamoca, Mikkael .......................Disclosed no conflict of interest.
LaMonica, Julia .........................Disclosed no conflict of interest.
Lamontagne, Mario .....................5: Receives institutional support from Smith & Nephew and MicroPort Orthopaedics.
Lancaster, Karalynn .................Disclosed no conflict of interest.
Landao-Bassonga, Euphemie .... *Disclosed no conflict of interest.*

Landao-Bossonga, Euphemie .... *Disclosed no conflict of interest.*


Lane, Lewis B. .................. *Disclosed no conflict of interest.*

Lane, Ryan A .................... *Disclosed no conflict of interest.*

Lang, Annemarie .................. *Disclosed no conflict of interest.*

Lang, Catherine E ............... *Disclosed no conflict of interest.*

Lang, Madison .................. *Disclosed no conflict of interest.*

Langer, Henning .................. *Disclosed no conflict of interest.*

Langermann, Sol .................. 3A: Nextcure.

Langhans, Mark .................. *Disclosed no conflict of interest.*

Langhans, Mark T. ............... *Disclosed no conflict of interest.*

Langohr, G Daniel ............... *Disclosed no conflict of interest.*

Lanman, Todd .................... *Disclosed no conflict of interest.*

Lanois, Corey .................... *Disclosed no conflict of interest.*

Lans, Amanda .................... *Disclosed no conflict of interest.*

Lansdown, Drew .................. *Disclosed no conflict of interest.*


Lansdown, Drew A ............... 3B: Vericel, AlloSource, 8: Arthroscopy.


Lanting, Brent .................. 6: Stryker.

Lanting, Brent .................. 3B: DePuy Synthes, Stryker, Smith and Nephew, 5: DePuy Synthes, Stryker.


Lanzetta, Nicholas ............. *Disclosed no conflict of interest.*
Lanzillotti, Carmen ..................Disclosed no conflict of interest.
Lapin, Norman A....................Disclosed no conflict of interest.
LaPorte, Zachary L ..................Disclosed no conflict of interest.
LaPrade, Robert F ...................Disclosed no conflict of interest.
Larkin, Lisa ..........................4: Skeletal Tissue Engineering Laboratory.
Larkin, Lisa M .......................Disclosed no conflict of interest.
Larson, Jordan ........................Disclosed no conflict of interest.
Lartey, Richard ......................Disclosed no conflict of interest.
LaRue, Amanda ......................Disclosed no conflict of interest.
LaRue, Amanda C ....................Disclosed no conflict of interest.
LaSala, Paul R ........................Disclosed no conflict of interest.
Laskowski, Elizabeth .............3A: DePuy Synthes.
Lassiter, Tally .......................Disclosed no conflict of interest.
Lattermann, Christian ..............Disclosed no conflict of interest.
Lau, Justin ..........................Disclosed no conflict of interest.
Lau, Justin H .........................Disclosed no conflict of interest.
Lau, Yian Khai .......................Disclosed no conflict of interest.
Laudier, Damien ....................Disclosed no conflict of interest.
Laudon, Mary ........................Disclosed no conflict of interest.
Lauer, Caroline S ...................Disclosed no conflict of interest.
Laukhuf, Corey .....................3A: DePuy Synthes Joint Reconstruction, 4: Johnson & Johnson.
Laukhuf, Corey .....................3A: DePuy Synthes.
Laurans, Maxwell ..................Disclosed no conflict of interest.
Lauren, Hutnik ......................Disclosed no conflict of interest.
Laux, Christoph ....................Disclosed no conflict of interest.
LaVelle, Matthew ..................Disclosed no conflict of interest.
Lavikainen, Jere Disclosed no conflict of interest.
Lawler, Patrick Disclosed no conflict of interest.
Lawlor, Mark Disclosed no conflict of interest.
Lawrence, Kyle Disclosed no conflict of interest.
Lawson, Jonathan Disclosed no conflict of interest.
Lawson, Jonathan J Disclosed no conflict of interest.
Lawson, Kevin J Disclosed no conflict of interest.
Lawson, Taylor Disclosed no conflict of interest.
Laz, Peter Disclosed no conflict of interest.
Laz, Peter J Disclosed no conflict of interest.
Lazar, Ann A. Disclosed no conflict of interest.
Lazaro, Lionel Disclosed no conflict of interest.
Le Maitre, Christine Disclosed no conflict of interest.
Le, David Disclosed no conflict of interest.
Le, Hai Disclosed no conflict of interest.
Le, Quang Disclosed no conflict of interest.
Leach, Kent 9: MAL for ISFR; BOD on BMES.
Leadem, Joshua Disclosed ISFR; BOD on BMES.
Leahy, Thomas P Disclosed no conflict of interest.
Leale, Dustin M Disclosed no conflict of interest.
Leardini, Alberto Disclosed no conflict of interest.
Leary, Emily 7B: BMJ, 8: JISAKOS, journal of knee surgery.
Leary, Emily 7B: BMJ Journals, 8: JISAKOS, J of Knee Surgery.
Leary, Emily V 7B: BMJ Journals, 8: JISAKOS, J of Knee Surgery.
Leasure, Jeremi 3B: Aurora Spine, 9: Recombinant.
Leasure, Jeremi M 3B: Aurora Spine, 9: Recombinant.
Leatherman, Erin Disclosed no conflict of interest.
Leatherman, Hadley Disclosed no conflict of interest.
Lebel, Marie-Eve Disclosed no conflict of interest.
Lebsock, Kimberly Disclosed no conflict of interest.
Lechtholz-Zey, Elizabeth .......... Disclosed no conflict of interest.
Lederman, Evan ......................... 3B: Arthrex Inc.
Ledroit, Diane .......................... Disclosed no conflict of interest.
Lee, Ah-Young .......................... Disclosed no conflict of interest.
Lee, Andy .................................. Disclosed no conflict of interest.
Lee, Andy J .............................. Disclosed no conflict of interest.
Lee, Andy J .............................. Disclosed no conflict of interest.
Lee, Beth ................................. Disclosed no conflict of interest.
Lee, Cassandra .......................... Disclosed no conflict of interest.
Lee, Chang ............................... Disclosed no conflict of interest.
Lee, Christine ........................... Disclosed no conflict of interest.
Lee, Clair .................................. 3A: Orthocell Ltd; R&D Director.
Lee, Cody ................................. Disclosed no conflict of interest.
Lee, Dong Yeon ........................... Disclosed no conflict of interest.
Lee, Dong-Oh ............................ Disclosed no conflict of interest.
Lee, Dongyeon ........................... Disclosed no conflict of interest.
Lee, Doo Jae .............................. Disclosed no conflict of interest.
Lee, Eugene .............................. Disclosed no conflict of interest.
Lee, Eui-Sup .............................. Disclosed no conflict of interest.
Lee, Fei San .............................. Disclosed no conflict of interest.
Lee, Hwaran .............................. Disclosed no conflict of interest.
Lee, Hyeonjoon ........................... Disclosed no conflict of interest.
Lee, Hyo-Bin .............................. Disclosed no conflict of interest.
Lee, Hyun-ji .............................. Disclosed no conflict of interest.
Lee, Jae-Hoo .............................. Disclosed no conflict of interest.
Lee, Jeffrey .............................. Disclosed no conflict of interest.
Lee, Ji-Hye .............................. Disclosed no conflict of interest.
Lee, Jin Woo .............................. Disclosed no conflict of interest.
Lee, Jinhung .............................. Disclosed no conflict of interest.
Lee, Joon ................................. Disclosed no conflict of interest.
Lee, Joon Y ..................................Disclosed no conflict of interest.
Lee, Justin ..................................Disclosed no conflict of interest.
Lee, Koryn ..................................Disclosed no conflict of interest.
Lee, Kyungmi ...........................Disclosed no conflict of interest.
Lee, Kyungmin .........................Disclosed no conflict of interest.
Lee, Mark ..................................Disclosed no conflict of interest.
Lee, Mark ..................................1: Globus, 3B: Synthes, Osteocentric, 4: Osteocentric, 9: AO Foundation.
Lee, Michael ............................Disclosed no conflict of interest.
Lee, Michael S .........................Disclosed no conflict of interest.
Lee, Michael S .........................Disclosed no conflict of interest.
Lee, Ming-Song .......................Disclosed no conflict of interest.
Lee, Robert ..............................Disclosed no conflict of interest.
LEE, SANG YANG ........................Disclosed no conflict of interest.
Lee, Sang-Soo .........................Disclosed no conflict of interest.
Lee, Se-Hwan ............................Disclosed no conflict of interest.
Lee, Seok Gi ..............................Disclosed no conflict of interest.
Lee, Seokgi ..............................Disclosed no conflict of interest.
Lee, Seung Yeol .......................Disclosed no conflict of interest.
Lee, Seunghwan .......................Disclosed no conflict of interest.
Lee, Siyoung .............................Disclosed no conflict of interest.
Lee, Sung-Jae .............................Disclosed no conflict of interest.
Lee, Sunhyung ...........................Disclosed no conflict of interest.
Lee, Sun-Kyeong ......................Disclosed no conflict of interest.
Lee, Thay Q ..............................Disclosed no conflict of interest.
Lee, Tzer-Min ............................Disclosed no conflict of interest.
Lee, Wayne Yuk Wai ..................Disclosed no conflict of interest.
Lee, Wayne YW ........................Disclosed no conflict of interest.
Lee, Whasil ................................Disclosed no conflict of interest.
Lee, Wonhee ..............................Disclosed no conflict of interest.
Lee, Ye-Ji .................................Disclosed no conflict of interest.
Lee, Yeon-Hee ............................ Disclosed no conflict of interest.
Lee, Yeonju ............................. Disclosed no conflict of interest.
Lee, You Jin ............................. Disclosed no conflict of interest.
Lee, Youngjoo ........................... Disclosed no conflict of interest.
Lee, Yunki ................................ Disclosed no conflict of interest.
Lee, Yunsoo ............................... Disclosed no conflict of interest.
Lee, Jinhee ............................... Disclosed no conflict of interest.
Leeson, Ella .............................. Disclosed no conflict of interest.
Leggett, Andrew ........................ Disclosed no conflict of interest.
Leggin, Justin ............................ Disclosed no conflict of interest.
Leguineche, Kelly ........................ Disclosed no conflict of interest.
Lehenkari, Petri ........................... Disclosed no conflict of interest.
Lei, Guanghua ............................ Disclosed no conflict of interest.
Lei, Jenny .................................. 3A: ZSFab.
Lei, Mou .................................... Disclosed no conflict of interest.
Leifeld, Sarah .............................. Disclosed no conflict of interest.
Leifer, Valia P. ............................ Disclosed no conflict of interest.
Leighton-Davies, Juliet ................... 3A: Novartis AG.
Leinwand, Jonah ........................... Disclosed no conflict of interest.
Leiprecht, Janina .......................... Disclosed no conflict of interest.
Lekkala, Sashank .......................... Disclosed no conflict of interest.
Lemmon, Elisabeth A ..................... Disclosed no conflict of interest.
Lemoine, Ben .............................. Disclosed no conflict of interest.
Lemoine, Mark ............................. Disclosed no conflict of interest.
Lenz, Amy ................................. 5: Paragon28 Inc., 8: Foot and Ankle International Editor.
Lenz, Amy ................................. 5: Paragon 28 Inc.
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Lenz, Amy L ............................... 5: Paragon 28.
Lenz, Kristin .............................. Disclosed no conflict of interest.
Lenz, Kristin L ............................ Disclosed no conflict of interest.
Lenz, Kristin L. .................. Disclosed no conflict of interest.
Leonard, Thomas E. ............... Disclosed no conflict of interest.
Leopold, Seth S. .................. Disclosed no conflict of interest.
Lerner, Amy ....................... Disclosed no conflict of interest.
Lerouge, Sophie .................. Disclosed no conflict of interest.
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Leslie, Lauren .................... Disclosed no conflict of interest.
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Lesniak, Bryson ................... 1: personal fees from Workers Kluwer Publishing, outside of the submitted work.
Lesniak, Bryson ................... Disclosed no conflict of interest.
Lesniak, Bryson P .................. Disclosed no conflict of interest.
Lessard, Samantha ................. Disclosed no conflict of interest.
Lester, Samuel .................... Disclosed no conflict of interest.
Leung, Ming ....................... Disclosed no conflict of interest.
Leung, Victor ..................... Disclosed no conflict of interest.
Leupin, Olivier .................... 3A: Novartis AG, 4: Novartis AG.
Levack, Ashley ................... Disclosed no conflict of interest.
LeVasseur, Clarissa ............... Disclosed no conflict of interest.
Levi, Benjamin ................... Disclosed no conflict of interest.
Levin, Jay .......................... Disclosed no conflict of interest.
Levis, Hunter ..................... Disclosed no conflict of interest.
Levitt, Eli .......................... Disclosed no conflict of interest.
Levitt, Eli B ....................... Disclosed no conflict of interest.
Levy, Hannah ..................... Disclosed no conflict of interest.
Lewis, Gregory ......................... Disclosed no conflict of interest.
Lewis, Karl ............................. Disclosed no conflict of interest.
Lex, Johnathan R ....................... Disclosed no conflict of interest.
Li, Bingyun ............................ Disclosed no conflict of interest.
Li, Chenshuang ........................ Disclosed no conflict of interest.
Li, Dai ................................. Disclosed no conflict of interest.
Li, Gang ................................. Disclosed no conflict of interest.
Li, Guoan .............................. 1: Stryker.
Li, Haiyan ............................. Disclosed no conflict of interest.
Li, Haiyin ............................. Disclosed no conflict of interest.
Li, Hongshuai .......................... Disclosed no conflict of interest.
Li, Jiannan ............................. Disclosed no conflict of interest.
Li, Jinpu ................................. Disclosed no conflict of interest.
Li, Jun ................................. Disclosed no conflict of interest.
Li, KE ................................. Disclosed no conflict of interest.
Li, La ................................. Disclosed no conflict of interest.
Li, Li ................................. Disclosed no conflict of interest.
Li, Linan .............................. Disclosed no conflict of interest.
Li, Mei ................................. Disclosed no conflict of interest.
Li, Meng Chen Michelle ............ Disclosed no conflict of interest.
Li, Min ................................. Disclosed no conflict of interest.
Li, Qingdian ........................... Disclosed no conflict of interest.
Li, Shu-Tung ........................... Disclosed no conflict of interest.
Li, Sophia .............................. Disclosed no conflict of interest.
Li, Thomas ............................. Disclosed no conflict of interest.
Li, Troy ................................. Disclosed no conflict of interest.
Li, Vivian .............................. Disclosed no conflict of interest.
Li, Wan-Ju ............................. Disclosed no conflict of interest.
Li, Xiaojuan ........................... Disclosed no conflict of interest.
Li, Xuan ............................... Disclosed no conflict of interest.
Li, Xudong (Joshua)........Disclosed no conflict of interest.
Li, Xue-jun ...................Disclosed no conflict of interest.
Li, Xueping ..................Disclosed no conflict of interest.
Li, Yingjuan .................Disclosed no conflict of interest.
Li, Ying-Juan ................Disclosed no conflict of interest.
Li, Yong ......................Disclosed no conflict of interest.
Li, Yuanhang .................Disclosed no conflict of interest.
Li, Yucong ...................Disclosed no conflict of interest.
Li, Zhao ......................Disclosed no conflict of interest.
Li, Zhen .....................Disclosed no conflict of interest.
Li, Zhong (Alan) ............Disclosed no conflict of interest.
Li, Zizhao ...................Disclosed no conflict of interest.
Li, Zong-Ming ................Disclosed no conflict of interest.
Liang, Haixiang .............Disclosed no conflict of interest.
Liang, Hiaxiang .............Disclosed no conflict of interest.
Liang, Hudson ...............Disclosed no conflict of interest.
Liao, Junhan ................Disclosed no conflict of interest.
Liau, Zi Qiang Glen .........Disclosed no conflict of interest.
Liberman, Shari .............Disclosed no conflict of interest.
Lichomski, Michael ..........Disclosed no conflict of interest.
Lichtig, Asher ..............Disclosed no conflict of interest.
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Lidgren, Lars ................4: Lars Lidgren is stockholder in Moroxite AB, Sweden, 9: Lars Lidgren is a board member of Bone Support AB, Sweden and Ortho Cell, Australia.
Lidgren, Lars ................4: LL owns stocks in a non-listed company Moroxite AB, Sweden, 9: LL is a board member of Bonesupport AB, Sweden and Orthocell Ltd. Australia.
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Lidgren, Lars ................Disclosed no conflict of interest.
Lieber, Richard .............Disclosed no conflict of interest.
Lieber, Richard L ..........Disclosed no conflict of interest.


Liedtke, Wolfgang. 3A: Regeneron.

Liepins, Imants. 3A: b-ONE Ortho.

Liepins, Imants. 3A: Imants Liepins.

Liesching, Madison. Disclosed no conflict of interest.

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Likar, Samantha. Disclosed no conflict of interest.

Liles, Jordan. Disclosed no conflict of interest.

Lillquist, Thomas J. Disclosed no conflict of interest.

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Lim, Boon Him. 3A: DePuy Synthes Joint Reconstruction.

Lim, Dohyung. Disclosed no conflict of interest.

Lim, Jong Wook. Disclosed no conflict of interest.

Lim, Matthew. 3A: 360 Med Care.

Liman, Suryamin. Disclosed no conflict of interest.

Limberg, Afton. Disclosed no conflict of interest.

Limberg, Afton K. Disclosed no conflict of interest.

Lin, Albert. 3B: Arthrex, Wright Medical.
Lin, Albert ............................... Disclosed no conflict of interest.
Lin, Albert ............................... 1: Stryker.
Lin, Albert ............................... 3B: Wright, Arthrex.
Lin, Alisia................................. Disclosed no conflict of interest.
Lin, Allen ................................. Disclosed no conflict of interest.
Lin, Angela ............................... Disclosed no conflict of interest.
Lin, Angela S.P. ......................... 4: Restor3D.
Lin, Charles ............................. Disclosed no conflict of interest.
Lin, David ............................... Disclosed no conflict of interest.
Lin, Eric CY.............................. Disclosed no conflict of interest.
LIN, Haixiong............................ Disclosed no conflict of interest.
Lin, Hang ................................. Disclosed no conflict of interest.
Lin, Jasmine S .......................... Disclosed no conflict of interest.
Lin, Kenneth M .......................... Disclosed no conflict of interest.
Lin, Sheldon ............................. 3C: Creosso.
Lin, Sien .................................. Disclosed no conflict of interest.
Lin, Sung-Yen ............................ Disclosed no conflict of interest.
Lin, Wujian ............................... Disclosed no conflict of interest.
Lin, Xi .......................... Disclosed no conflict of interest.
Lin, Ye .................................. Disclosed no conflict of interest.
Lin, Yen-Sheng .......................... Disclosed no conflict of interest.
Lin, Yi-Shung ............................. Disclosed no conflict of interest.
Lin, Yi-Wen ............................... Disclosed no conflict of interest.
lin, Yuejun ............................... Disclosed no conflict of interest.
Lin, Yu-Ting ............................. Disclosed no conflict of interest.
Lin, Yu-Yang ............................. Disclosed no conflict of interest.
Lin, Zixuan ............................... Disclosed no conflict of interest.
Lind, Martin ............................. Disclosed no conflict of interest.
Linden, Liliann R ......................... Disclosed no conflict of interest.
Lindsey, Kate ............................ Disclosed no conflict of interest.
Ling, Ka-Kin ......................... Disclosed no conflict of interest.
Ling, Kenny .......................... Disclosed no conflict of interest.
Ling, Zhi ............................... Disclosed no conflict of interest.
Link, Thomas M ....................... Disclosed no conflict of interest.
Linker, Jacob A ........................ Disclosed no conflict of interest.
Linton, Alexander .................... Disclosed no conflict of interest.
Linus, Awuniji ......................... Disclosed no conflict of interest.
Lipa, Shaina ............................ Disclosed no conflict of interest.
Lissee, Caroline ........................ Disclosed no conflict of interest.
Lisiewski, Lauren ..................... Disclosed no conflict of interest.
Lisiewski, Lauren E .................... Disclosed no conflict of interest.
Lisonbee, Rich ......................... Disclosed no conflict of interest.
Lisonbee, Rich J ....................... Disclosed no conflict of interest.
Litchy, William ....................... Disclosed no conflict of interest.
Litowski, Madison L .................. Disclosed no conflict of interest.
Little, Abreah .......................... Disclosed no conflict of interest.
Littlepage, Laurie ................... Disclosed no conflict of interest.
Liu, Aiqin ............................... Disclosed no conflict of interest.
Liu, Bei ................................. Disclosed no conflict of interest.
LUU, Chaoran ......................... Disclosed no conflict of interest.
Liu, Cheryl ............................. 3A: Stryker.
Liu, Chuanju ........................... Disclosed no conflict of interest.
Liu, Chuan-ju ......................... Disclosed no conflict of interest.
Liu, Cyong-yue ......................... Disclosed no conflict of interest.
Liu, David .............................. 2: Johnson & Johnson, Zimmer Biomet, 3B: Zimmer Biomet.
Liu, Ethan J ............................ Disclosed no conflict of interest.
Liu, Hao ................................. 3A: ZSFab.
Liu, Huanhuan... disclosed no conflict of interest.
Liu, Jennifer... disclosed no conflict of interest.
Liu, Jessica... disclosed no conflict of interest.
Liu, Jiaying... disclosed no conflict of interest.
Liu, Jia... disclosed no conflict of interest.
Liu, Justin... disclosed no conflict of interest.
Liu, Kevin C. ... disclosed no conflict of interest.
Liu, Leah... disclosed no conflict of interest.
Liu, Mengyao... disclosed no conflict of interest.
Liu, Nancy ... disclosed no conflict of interest.
Liu, Ronghan... disclosed no conflict of interest.
Liu, Sarah ... disclosed no conflict of interest.
Liu, Silvia ... disclosed no conflict of interest.
Liu, Songyuan... disclosed no conflict of interest.
Liu, Vivian ... disclosed no conflict of interest.
Liu, Wenguang ... disclosed no conflict of interest.
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Liu, Xue-Cheng ... disclosed no conflict of interest.
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Liu, Yang... disclosed no conflict of interest.
Liu, Yajun ... disclosed no conflict of interest.
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Liu, Yu ... disclosed no conflict of interest.
Liu, Yulei ... disclosed no conflict of interest.
Liu, Yuting ... disclosed no conflict of interest.
Liu, Zhaoyang ... disclosed no conflict of interest.
Liu, Zi-Miao ... disclosed no conflict of interest.
Liu-Bryan, Ru .................................. Disclosed no conflict of interest.
Ljunggren, Östen .................................. Disclosed no conflict of interest.
LLabre, Joan .................................. Disclosed no conflict of interest.
Lobo, Peter .................................. Disclosed no conflict of interest.
Locke, Conor .................................. Disclosed no conflict of interest.
Locke, Ryan .................................. Disclosed no conflict of interest.
Locke, Ryan C .................................. Disclosed no conflict of interest.
Loebel, Claudia .................................. Disclosed no conflict of interest.
Loeser, Richard .................................. Disclosed no conflict of interest.
Loflin, Ben .................................. Disclosed no conflict of interest.
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Loiselle, Alayna E .................................. Disclosed no conflict of interest.
Loiselle, Alayna E .................................. Disclosed no conflict of interest.
Lolli, Andrea .................................. Disclosed no conflict of interest.
Lombardo, Dominic A .................................. Disclosed no conflict of interest.
Long, Charles W .................................. Disclosed no conflict of interest.
Long, Yufeng .................................. Disclosed no conflict of interest.
Long, Yu-feng .................................. Disclosed no conflict of interest.
Longaker, Michael T .................................. Disclosed no conflict of interest.
Longanecker, Andrew .................................. Disclosed no conflict of interest.
Longjohn, Donald B. .................................. Disclosed no conflict of interest.
Longjohn, Donald B. .................................. 6: 3M.
Loo, Daniela M .................................. Disclosed no conflict of interest.
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Loots, Gabriela .................................. Disclosed no conflict of interest.
Loots, Gabriela G .................................. Disclosed no conflict of interest.
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Lopez, Jonathan .................................. Disclosed no conflict of interest.
Lopez, Joseph ....................... Disclosed no conflict of interest.
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Lopez, Mandi ....................... 8: Editorial Board Veterinary Surgery.
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Lopez, Sarah A ....................... Disclosed no conflict of interest.
Lopez, Serafina G ..................... Disclosed no conflict of interest.
Lorenz, Madelyn R ..................... Disclosed no conflict of interest.
Lorenzo, Joseph ....................... Disclosed no conflict of interest.
Löser, Felix ......................... Disclosed no conflict of interest.
Loss, Jeremy G ....................... Disclosed no conflict of interest.
LoTurco, Holly ....................... Disclosed no conflict of interest.
Lotz, Jeffrey ......................... Disclosed no conflict of interest.
Lotz, Martin K ....................... Disclosed no conflict of interest.
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Loughran, Galyna .................... 3A: DePuy Synthes Joint Reconstruction.
Lovering, Richard M .................. Disclosed no conflict of interest.
Low, Shawn Shao En .................. Disclosed no conflict of interest.
Lowe, Timothy ....................... Disclosed no conflict of interest.
Lowry, Christopher A ................ Disclosed no conflict of interest.
Lowry, Conor ......................... 3A: DePuy Synthes Joint Reconstruction.
Lowry, Michelle ..................... Disclosed no conflict of interest.
Loy, Douglas ......................... Disclosed no conflict of interest.
Lozano-Calderon, Santiago .......... Disclosed no conflict of interest.
Lu, Aiping ......................... Disclosed no conflict of interest.
Lu, Aping ......................... Disclosed no conflict of interest.
Lu, Cheng-Chang ................... Disclosed no conflict of interest.
Lu, Helen ......................... Disclosed no conflict of interest.
Lu, Jiawei ......................... Disclosed no conflict of interest.
Lu, Lichun ......................... Disclosed no conflict of interest.
Lu, Panpan ......................... Disclosed no conflict of interest.
Lu, Pan-Pan ............................................. Disclosed no conflict of interest.
Lu, Qiongshi ............................................. Disclosed no conflict of interest.
Lu, X. Lucas ............................................. Disclosed no conflict of interest.
Lu, Xuan ................................................. Disclosed no conflict of interest.
Lucaciu, Andreea R .................................. Disclosed no conflict of interest.
Lucas, Margaret ........................................ Disclosed no conflict of interest.
Lucidi, Gian Andrea ................................... Disclosed no conflict of interest.
Luck, J D ................................................. Disclosed no conflict of interest.
Ludewig, Eberhard ................................... Disclosed no conflict of interest.
Ludington, John ........................................ Disclosed no conflict of interest.
Ludvig, Daniel .......................................... Disclosed no conflict of interest.
Lui, Elaine ............................................... Disclosed no conflict of interest.
Lui, Hayman ............................................. Disclosed no conflict of interest.
Lui-Chen, Frank ....................................... Disclosed no conflict of interest.
Luk, Josephine ......................................... Disclosed no conflict of interest.
Luke, Emma ............................................. Disclosed no conflict of interest.
Lukpat, Samantha N ................................. Disclosed no conflict of interest.
Lundberg, Hannah ................................. 6: Zimmer-Biomet.
Lundberg, Hannah J .............................. 6: Zimmer-Biomet.
Luo, Jiwen ............................................. Disclosed no conflict of interest.
Luo, Juntao ............................................. Disclosed no conflict of interest.
Lupo, Brianna .......................................... Disclosed no conflict of interest.
Luster, Taylor ........................................ Disclosed no conflict of interest.
Lutas, Maria ........................................... Disclosed no conflict of interest.
Lynch, Andrew ........................................ Disclosed no conflict of interest.
Lynch, Daniel .......................................... Disclosed no conflict of interest.
Lyons, Joseph G ...................................... Disclosed no conflict of interest.
Lyons, Karen ......................................... 9: ORS.
Lyons, Matt ............................... 1: DePuy Synthes, 2: DePuy Synthes, Ethicon, Corin, LifeHealthcare, Zimmer Biomet, 3B: DePuy Synthes, 4: 360MedCare, NavBit, 5: DePuy Synthes.

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Ma, Shen-Ying (Richard) ....... 5: Cartiheal, Moximed, 8: J of BJS-American, 9: AOA, AOSSM, ORS, RRIPG.

Ma, Shen-Ying (Richard) ....... 5: Cartiheal, Moximed, Novocart, 8: JBJS American, 9: AAOS, AOA, AOSSM, ACSM, RRIPG.

Ma, Shen-Ying (Richard) ....... 8: Journal of BJS, 9: AAOS, ORS, RRIPG.

Ma, Xiaoyu ................................ Disclosed no conflict of interest.

Ma, Xin ................................... Disclosed no conflict of interest.

Ma, Xue ................................... Disclosed no conflict of interest.

Ma, Xuewei .............................. 3A: ZSFab.

Ma, Yajun ............................... Disclosed no conflict of interest.

Ma, Ying .................................. Disclosed no conflict of interest.

Ma, Yiyang .............................. Disclosed no conflict of interest.

Ma, Zhijie ............................... Disclosed no conflict of interest.

Maak, Travis G ......................... 3C: Arthrex.

Maak, Travis G. ....................... Disclosed no conflict of interest.

Maas, Kyle P ............................ Disclosed no conflict of interest.

Maassen, Nicholas .................... Disclosed no conflict of interest.

MacDonald, Daniel W ............... 3A: Gyroid, LLC.

MacDonald, James ...................... 5: Smith and Nephew, 8: Journal of Arthroplasty.

MacDonald, Steven .................... 1: DePuy, 3B: DePuy, 4: CurvaFix, Hip Innovations Technology, JointVue, PSI, 5: DePuy, Smith & Nephew, Stryker.


Mace, Annsley ......................... Disclosed no conflict of interest.

Mace, Annsley O ....................... Disclosed no conflict of interest.

MacFadden, Lisa ....................... Disclosed no conflict of interest.

MacFadden, Lisa N .................... Disclosed no conflict of interest.

MacFadden, Lisa N. ................... Disclosed no conflict of interest.
Machado, Priscilla .......................... Disclosed no conflict of interest.
Machireddy, Meghana .................. Disclosed no conflict of interest.
MacKay, Brendan ......................... Disclosed no conflict of interest.
MacLeod, Alisdair ......................... Disclosed no conflict of interest.
MacWilliams, Bruce A. ............... Disclosed no conflict of interest.
Madden, Dimitri .......................... Disclosed no conflict of interest.
Maden, Malcolm .......................... Disclosed no conflict of interest.
Madi, Rashad ............................... Disclosed no conflict of interest.
Maduka, Chima ............................ Disclosed no conflict of interest.
Mae, Tatsuo ................................. Disclosed no conflict of interest.
Maeda, Eijiro ............................... Disclosed no conflict of interest.
Maeda, Shingo ............................. Disclosed no conflict of interest.
Maeda, Tatsunori ......................... Disclosed no conflict of interest.
Maeda, Toshihisa ......................... Disclosed no conflict of interest.
Maeda, Yuki ................................. Disclosed no conflict of interest.
Maehlich, Daniela ......................... Disclosed no conflict of interest.
Maeng, Seong-Woo ....................... Disclosed no conflict of interest.
Maerz, Tristan ............................. Disclosed no conflict of interest.
Maffei, Jessica ............................. Disclosed no conflict of interest.
Magallanes, Jenny ......................... Disclosed no conflict of interest.
Maggie, Jewett E ......................... Disclosed no conflict of interest.
Maggio, Mimma ............................ Disclosed no conflict of interest.
Maginnis, Connor ......................... Disclosed no conflict of interest.
Magruder, Matthew ....................... Disclosed no conflict of interest.
Mahadevan-Jansen, Anita .............. Disclosed no conflict of interest.
Mahatme, Ronak ......................... Disclosed no conflict of interest.
Mahatme, Ronak J ....................... Disclosed no conflict of interest.
Mahatme, Ronak J ....................... Disclosed no conflict of interest.
Maher, Suzanne .......................... 3B: Agelity Biomechanics Corp.
Maher, Suzanne .......................... 4: A Gelity Biomechanics Corp.
Maher, Suzanne A ..................4: AGelity Biomechanics Corp.
Maher, Suzanne A ..................3B: Agelity Biomechanics Corp.
Maheshwer, Bhargavi ............... Disclosed no conflict of interest.
Mahindroo, Sonal ................... Disclosed no conflict of interest.
Mahmoudian, Armaghan ............ Disclosed no conflict of interest.
Mahoney, Ormonde ..................3B: Stryker.
Mai, Patrick ....................... Disclosed no conflict of interest.
Main, Russell ....................... Disclosed no conflict of interest.
Majano, Christian .................. Disclosed no conflict of interest.
Majidi, Rabeeh ..................... Disclosed no conflict of interest.
Majima, Tokifumi ................... Disclosed no conflict of interest.
Majumdar, Sharmila ............... Disclosed no conflict of interest.
Majumdar, Sharmila ................ 5: GE Healthcare.
Majumdar, Sharmila ................ 5: Research funding from GE Healthcare.
Makarczyk, Meagan ............... Disclosed no conflict of interest.
Makarczyk, Meagan ............... Disclosed no conflict of interest.
Mäkelä, Janne T. A. ............... Disclosed no conflict of interest.
Mäkelä, Janne T.A. .................. Disclosed no conflict of interest.
Maki, Masahiro ..................... Disclosed no conflict of interest.
Makowski, Anna-Lena ............. Disclosed no conflict of interest.
Malakoutikhah, Hamed ............ Disclosed no conflict of interest.
Maldonado, Celina C .............. Disclosed no conflict of interest.
Maldonado, David R ............... Disclosed no conflict of interest.
Malfait, Anne-Marie .............. 3B: 23andMe, AKP, Orion.
Malhotra, Gautam .................. Disclosed no conflict of interest.
Malhotra, Neil ...................... Disclosed no conflict of interest.
Malhotra, Neil R ................... Disclosed no conflict of interest.
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Mallavarapu, Vineel ..................Disclosed no conflict of interest.
Mallick, Umer ......................Disclosed no conflict of interest.
Mallick, Umer H .....................Disclosed no conflict of interest.
Malloy, Kimberly ..................Disclosed no conflict of interest.
Malloy, Philip ......................Disclosed no conflict of interest.
Maloney, William J ................Disclosed no conflict of interest.
Maloy, Gwyneth C ..................Disclosed no conflict of interest.
Mammito, Takeo ..................Disclosed no conflict of interest.
Manabe, Hiroaki ....................Disclosed no conflict of interest.
Manandhar, Lumanti ..............Disclosed no conflict of interest.
Manatrakul, Rawee .............Disclosed no conflict of interest.
Manatt, Shaun .....................Disclosed no conflict of interest.
Mancipe Castro, Lina M ..........Disclosed no conflict of interest.
Mandelbaum, Bert ................Disclosed no conflict of interest.
Mandujano, Juan ..................Disclosed no conflict of interest.
Mane, Amitkumar ................3A: DePuy Synthes.
Mane, Amitkumar ................3A: DePuy Synthes, 4: DePuy Synthes.
Mane, Amitkumar M ..............3A: DePuy Synthes.
Maniar, Drishti ..................Disclosed no conflict of interest.
Maniura, Katharina .............8: Biointerphases.
Mann, Kenneth A ................Disclosed no conflict of interest.
Mann, Shane ......................Disclosed no conflict of interest.
Mannarino, Matthew ...........Disclosed no conflict of interest.
Mannava, Sandeep .............Disclosed no conflict of interest.
Mannen, Erin ......................Disclosed no conflict of interest.
Mannerkorpi, Minna ............Disclosed no conflict of interest.
Manning, Blaine ..................Disclosed no conflict of interest.
manrique, Lander Disclosed no conflict of interest.
Manrique-Succar, Jorge Disclosed no conflict of interest.
Mansfield, Jessica C Disclosed no conflict of interest.
Mansky, Kim C Disclosed no conflict of interest.
Mansur, Nacime Disclosed no conflict of interest.
Mantebea, Hannah Disclosed no conflict of interest.
Mantha, Aditya Disclosed no conflict of interest.
Manuel, Jay Disclosed no conflict of interest.
Manzi, Joseph Disclosed no conflict of interest.
Mao, Genwen Disclosed no conflict of interest.
Mao, Jiamin Disclosed no conflict of interest.
Maolf, Angela J Disclosed no conflict of interest.
Mar, Damon 3B: Agada Medical.
Mar, Damon 3B: Agada Medical, Texas Back Institute.
Marchand, Kevin Disclosed no conflict of interest.
Marchand, Lucas S Disclosed no conflict of interest.
Marchand, Robert 3B: Stryker, Zipline, Onetray, 4: Stryker, 5: Stryker.
Marciano, Gerard Disclosed no conflict of interest.
Marcianete, Mara Disclosed no conflict of interest.
Marco, Rex Disclosed no conflict of interest.
Marcolongo, Michele S Disclosed no conflict of interest.
Marcucio, Ralph Disclosed no conflict of interest.
Marcus, Landgren Disclosed no conflict of interest.
Marczuk, Yann 3B: Exactech, Inc.
Marek, Aleksander Disclosed no conflict of interest.
Margolis, David 4: Agenus, Moderna, Pfizer, Johnson & Johnson.
Marinier, Michael Disclosed no conflict of interest.
Marinier, Michael C Disclosed no conflict of interest.
Mario Gomez-Salazar, Mario ....Disclosed no conflict of interest.


Markova, Dessislava..........................Disclosed no conflict of interest.

Markova, Dessislava Z..................Disclosed no conflict of interest.

Markovics, Adrienn ......................Disclosed no conflict of interest.

Marmor, Meir T .........................9: OTA.

Marra, Guido .........................1: Zimmer Biomet, 2: Zimmer Biomet, 9: ABJS Board Member, ASES, ABJS, AAOS Committee Member.

Marra, Kacey G. ......................Disclosed no conflict of interest.

Marras, Daniele .........................Disclosed no conflict of interest.

Marrero, Luis .......................Disclosed no conflict of interest.

Martin, Andrew ............................Disclosed no conflict of interest.

Martin, Davis E. ......................Disclosed no conflict of interest.

Martin, Elise .......................Disclosed no conflict of interest.

Martin, Jill ..........................Disclosed no conflict of interest.

Martin, John ......................Disclosed no conflict of interest.

Martin, Katy ........................Disclosed no conflict of interest.

Martin, R. Kyle .........................6: Arthrex - Education.

Martin, Ryan C ......................4: Tactile Orthopaedics, 5: Smith & Nephew.

Martin, Scott D ..................Disclosed no conflict of interest.

Martin, Sean P ......................Disclosed no conflict of interest.

Martin, Stephen ..................Disclosed no conflict of interest.

Martin, Stephen A ..................Disclosed no conflict of interest.

Martin, Steven ..................Disclosed no conflict of interest.

Martin, Zashiana ..................Disclosed no conflict of interest.

Martinez, Callie-Jo ..................Disclosed no conflict of interest.

Martinez, Vianna G. ...............Disclosed no conflict of interest.

Martinez, Victor H ..................Disclosed no conflict of interest.

Martini, Fernanda ..................Disclosed no conflict of interest.
Martins, Carolina .......................... Disclosed no conflict of interest.
Martins, Carolina S .......................... Disclosed no conflict of interest.
Martyniak, Kari ................................. Disclosed no conflict of interest.
Maruo, Akihiro ................................. Disclosed no conflict of interest.
Maruyama, Masahiro ......................... Disclosed no conflict of interest.
Maruyama, Moritaka ......................... Disclosed no conflict of interest.
Marvin, Jason C. ............................... Disclosed no conflict of interest.
Marzo, John ..................................... 5: Arthrex donation of materials for this study (Grant Number IIRR-01282).
Masahashi, Naoya .............................. Disclosed no conflict of interest.
Masaya, Kusunose ............................... Disclosed no conflict of interest.
Mason, Deborah ................................. Disclosed no conflict of interest.
Mass, Daniel ................................. Disclosed no conflict of interest.
Massaad, Elie ................................. Disclosed no conflict of interest.
Massey, Patrick ................................. Disclosed no conflict of interest.
Massie, Christine .............................. Disclosed no conflict of interest.
Masters, Elysia A .............................. Disclosed no conflict of interest.
Mastrokostas, Paul G .......................... Disclosed no conflict of interest.
Masubuchi, Masaaki ........................... Disclosed no conflict of interest.
Masuda, Yu ................................. Disclosed no conflict of interest.
Masuda, Yusuke ............................... Disclosed no conflict of interest.
Masujima, Shinya ............................... Disclosed no conflict of interest.
Matelski, John ................................. Disclosed no conflict of interest.
Matera, Daniel L ............................... Disclosed no conflict of interest.
Mathavan, Neashan ............................ Disclosed no conflict of interest.
Matheson, Austyn .............................. Disclosed no conflict of interest.
Matheson, Austyn R ........................... Disclosed no conflict of interest.
Matheson, John ............................... Disclosed no conflict of interest.
Mathew, Mathew ............................... Disclosed no conflict of interest.
Mathey, Elizabeth ............................ Disclosed no conflict of interest.
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Matsumoto, Takeo ................... Disclosed no conflict of interest.
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Matsuo, Tomoya ...................... Disclosed no conflict of interest.
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Matsushita, Masaki .................. Disclosed no conflict of interest.
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Disclosed no conflict of interest.

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5: Receive research or institutional support as a principal investigator from any medical-related company,
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5: 4Web Medical, 8: JOR Spine.

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Disclosed no conflict of interest.

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Disclosed no conflict of interest.
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Maynard, Robert ....................Disclosed no conflict of interest.
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McCall, Blake ......................Disclosed no conflict of interest.
McCanne, Madeline ..................Disclosed no conflict of interest.
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McCarthy, Edward ..................Disclosed no conflict of interest.
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McCarthy, Helen ..................Disclosed no conflict of interest.
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McCarthy, Stephanie M ...........Disclosed no conflict of interest.
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McClure, Michael ...................6: MTF Biologics.

McClure, Michael J ..................Disclosed no conflict of interest.

McClure, Scott R ......................3B: Nucleus ProVets LLC.

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McGee, Wesley A .....................Disclosed no conflict of interest.

McGee-Lawrence, Meghan ..........Disclosed no conflict of interest.

McGonagle, Elizabeth ...............Disclosed no conflict of interest.

McGowan, Brian ......................Disclosed no conflict of interest.
McGrath, Aleksandra .................. Disclosed no conflict of interest.
McGrath, Alexandra .................. Disclosed no conflict of interest.
McGrath, Brian ......................... 3B: Ampio, Biomet, Stryker, 4: Biomet, Strker, Turbett Surgical.
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McGuire, Tess ......................... Disclosed no conflict of interest.
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McKay-Nault, Jessica A ............... Disclosed no conflict of interest.
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McKenna, Charles ..................... Disclosed no conflict of interest.
McKenzie, Jennifer ................... Disclosed no conflict of interest.
McKernan, Gina ....................... Disclosed no conflict of interest.
McKinley, Todd ....................... Disclosed no conflict of interest.
McKinney, Logan ..................... Disclosed no conflict of interest.
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McLaughlin, William M. ............. Disclosed no conflict of interest.
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McLellen, Florence .................. Disclosed no conflict of interest.
McLennan, Alexandra L ............. Disclosed no conflict of interest.
McLoughlin, Shannon ............... Disclosed no conflict of interest.
McNallan, Michael .................. Disclosed no conflict of interest.
McNamara, Laoise ................... Disclosed no conflict of interest.
McNamara, Laoise M ............... Disclosed no conflict of interest.
McNamara, Stephanie ............... Disclosed no conflict of interest.
McNeill, Tyler ....................... Disclosed no conflict of interest.
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Meas, Steven J
Mecchi, Laura
Meccia, Bradley
Mechrefe, Yasmine
Meckstroth, Shelby
Medam, Ramapaada
Medary, Branden
Medeiros, Claudia
Medrano, Jessica Marie R
Medvecky, Michael J
Meek, Wendy M
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Meftah, Morteza
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Mehl, Julia
Mehlman, Charles
Mehranb Alvandi, Leila
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Mehrotra, Dev R.......................Disclosed no conflict of interest.
Mehta, Aayush.................Disclosed no conflict of interest.
Mehta, Amrita..................Disclosed no conflict of interest.
Mehta, Bella......................Disclosed no conflict of interest.
Mei, Jiong........................Disclosed no conflict of interest.
Meier, Malin Kristin...........Disclosed no conflict of interest.
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Mejia, Alfonso................Disclosed no conflict of interest.
Mekhail, Julie...................Disclosed no conflict of interest.
Melander, Mitchell...........Disclosed no conflict of interest.
Mell, Kristopher..............Disclosed no conflict of interest.
Mell, Steven P................Disclosed no conflict of interest.
Mell, Steven P................Disclosed no conflict of interest.
Melton, Danielle..............Disclosed no conflict of interest.
Melton, Danielle H............Disclosed no conflict of interest.
Melugin, Heath................Disclosed no conflict of interest.
Mendiratta, Dhruv..............Disclosed no conflict of interest.
Mendoza, Sarah V...............Disclosed no conflict of interest.
Menendez, Lawrence..........3B: Onkos Surgical, 7A: TeDan Surgical.
Meng, Zhipeng..................Disclosed no conflict of interest.
Mengis, Tamara................Disclosed no conflict of interest.
Menon, Nikhil G..............Disclosed no conflict of interest.
Menon, Ravi......................Disclosed no conflict of interest.
Menuki, Kunitaka..............Disclosed no conflict of interest.
Menuey, Elizabeth M..........Disclosed no conflict of interest.
Mercado, Kayla.................Disclosed no conflict of interest.
Mercado, Paul..................Disclosed no conflict of interest.
Merchant, Aftab ...................... *Disclosed no conflict of interest.*
Mercier, Michael R ...................... *Disclosed no conflict of interest.*
Mercuri, Jeremy ........................ *Disclosed no conflict of interest.*
Mercuri, Jeremy ....................... 3B: Samaritan Biologics, 5: Stryker Spine.
Mercuri, Louis G ........................ 3B: Stryker.
Merkely, Gergo ......................... *Disclosed no conflict of interest.*
Merle, Geraldine ....................... *Disclosed no conflict of interest.*
Mertens, Jasmin ........................... *Disclosed no conflict of interest.*
Mesfin, Addisu ....................... *Disclosed no conflict of interest.*
Mesfin, Addisu ...................... 2: Medtronic, Depuy, Stryker, 4: Axiomed.
Mesisca, Jenna ......................... *Disclosed no conflict of interest.*
Mette, Makena ............................ *Disclosed no conflict of interest.*
Metzger, Melodie ....................... 6: Arthrex, Inc.
Metzger, Melodie ....................... 5: Arthrex, Medtronics.
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Metzger, Melodie F ..................... 5: Arthrex, Medtronics, MTF.
Metzl, Joshua ............................ 1: Arthrex, 3B: Arthrex.
Meulenbelt, Ingrid ..................... *Disclosed no conflict of interest.*
Meulink, Steven ....................... 3A: Zimmer Biomet, 4: Zimmer Biomet.
Meves, Alexander ...................... *Disclosed no conflict of interest.*
Meyer, Cristy ............................ *Disclosed no conflict of interest.*
Meyer, Gretchen ........................... *Disclosed no conflict of interest.*
Meyer, Gretchen A ..................... *Disclosed no conflict of interest.*
Meyer, Lucy E. ......................... *Disclosed no conflict of interest.*
Meyers, Deidre N ....................... *Disclosed no conflict of interest.*
Meyers, Kathleen ....................... *Disclosed no conflict of interest.*
Meyers, Mindy ............................ *Disclosed no conflict of interest.*
Miao, Tianfeng .......................... Disclosed no conflict of interest.
Michael, Betz .......................... Disclosed no conflict of interest.
Michalek, Art .......................... Disclosed no conflict of interest.
Michalko, Bridget ....................... Disclosed no conflict of interest.
Micheli, Brad .......................... Disclosed no conflict of interest.
Micheli, Lyle J .......................... 3C: Carticel.
Middendorf, Jill M ........................ Disclosed no conflict of interest.
Mieradili, Mulati ........................ Disclosed no conflict of interest.
Mierswa, Sabrina ......................... Disclosed no conflict of interest.
Mifune, Yutaka .......................... Disclosed no conflict of interest.
Migotsky, Nicole ......................... Disclosed no conflict of interest.
Mihalko, Marc J .......................... Disclosed no conflict of interest.
Mihaly, Eszter .......................... Disclosed no conflict of interest.
Mihara, Masahiko ......................... Disclosed no conflict of interest.
Mikaeiliagah, Elmira ..................... Disclosed no conflict of interest.
Milbrandt, Nathalie ...................... Disclosed no conflict of interest.
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Miles, Brad .............................. 1: Corin, 3B: 360 Med Care, 4: 360 Med Care.
Miles, Jon ............................... Disclosed no conflict of interest.
Miles, Jonathan .......................... 3B: Implantcast Orthopaedics, 9: Queensland Medical Technologies Ltd.
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Miller, Alice .......................... Disclosed no conflict of interest.
Miller, Brendyn J .................... Disclosed no conflict of interest.
Miller, Catherine ..................... Disclosed no conflict of interest.
Miller, Ciena .......................... Disclosed no conflict of interest.
Miller, Mark A .......................... Disclosed no conflict of interest.
Miller, Rachel .......................... Disclosed no conflict of interest.
Millett, Peter .......................... Disclosed no conflict of interest.
Millett, Peter J .......................... Disclosed no conflict of interest.
Milligan, Kenneth .................... Disclosed no conflict of interest.
Mills, David K .......................... Disclosed no conflict of interest.
Mills, Emily S .......................... Disclosed no conflict of interest.
Mills, Megan K .......................... Disclosed no conflict of interest.
Miltonberger, Emma .................... Disclosed no conflict of interest.
Mina, Botros .......................... Disclosed no conflict of interest.
Minami, Masataka ..................... Disclosed no conflict of interest.
Minas, Lucas .......................... Disclosed no conflict of interest.
Minegishi, Yuki ....................... Disclosed no conflict of interest.
Minji, Lee .............................. Disclosed no conflict of interest.
Minjoon, Oh ............................ Disclosed no conflict of interest.
Mircoff, Samuel E ...................... Disclosed no conflict of interest.
Mirochnik, Karina R ................... Disclosed no conflict of interest.
Mirvish, Asher .......................... Disclosed no conflict of interest.
Mirza, Mustajab H ..................... Disclosed no conflict of interest.
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Mitchell, Charles ...................... Disclosed no conflict of interest.
Mitchell, Michael J ................. Disclosed no conflict of interest.
Mitchell, Ulrike H ..................... Disclosed no conflict of interest.
Mitchelmore, Joanna ................. 3A: Novartis AG, 4: Novartis AG.
Mitsuzawa, Sadaki ..................... Disclosed no conflict of interest.
Mittal, Anugya ......................... Disclosed no conflict of interest.
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Mittwede, Peter ....................... Disclosed no conflict of interest.
Miura, Kota ............................ Disclosed no conflict of interest.
Miyajima, Shunsuke ................... Disclosed no conflict of interest.
Miyamoto, Azusa ...................... Disclosed no conflict of interest.
Miyamoto, Himari ..................... Disclosed no conflict of interest.
Miyamoto, Hiroshi .................... Disclosed no conflict of interest.
Miyamoto, Tomohiro .................. Disclosed no conflict of interest.
Miyatake, Kazuma ................... Disclosed no conflict of interest.
Miyatake, Kazumasa ................ Disclosed no conflict of interest.
Miyazaki, Kunihiko ................. Disclosed no conflict of interest.
Miyazaki, Ryo ......................... Disclosed no conflict of interest.
Miyazaki, Takuji ....................... Disclosed no conflict of interest.
Mizuno, Shuichi ...................... Disclosed no conflict of interest.
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3A: ZuriMED Technologies AG.

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Disclosed no conflict of interest.

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3A: Jillian Mohn.

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3A: Acumed.

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3B: JRF Ortho.

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Montgomery, Carver .................. Disclosed no conflict of interest.

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Montgomery, Melissa M.............. Disclosed no conflict of interest.

Montoya, Travis ...................... Disclosed no conflict of interest.

Montreuil, Julien ..................... Disclosed no conflict of interest.
Monument, Michael .......................... Disclosed no conflict of interest.
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Moo, Eng Kuan ................................ Disclosed no conflict of interest.
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Mooney, David ............................... Disclosed no conflict of interest.
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Moore, Blake ................................. 5: Tyber Medical.
Moore, Brady ................................. Disclosed no conflict of interest.
Moore, Douglas C ............................ Disclosed no conflict of interest.
Moore, Douglas C. ........................... Disclosed no conflict of interest.
Moore, Harold G ............................. Disclosed no conflict of interest.
Moore, Jacob ................................. Disclosed no conflict of interest.
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Moore, John ................................. Disclosed no conflict of interest.
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Moore, Sarah ................................. Disclosed no conflict of interest.
Moore, Spencer ............................. Disclosed no conflict of interest.
Moore-Lottridge, Stephanie .............. Disclosed no conflict of interest.
Mora, Jimena ................................. Disclosed no conflict of interest.
Moradi, Lida ................................. Disclosed no conflict of interest.
Moran, Barry ................................. Disclosed no conflict of interest.
Moran, Jay .......................... *Disclosed no conflict of interest.*
Moran, Meghan ....................... *Disclosed no conflict of interest.*
Moran, Steven .......................... *Disclosed no conflict of interest.*
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More, Ari Digiacomo Ocampo ......... *Disclosed no conflict of interest.*
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Moreno, Javier Rangel ............... *Disclosed no conflict of interest.*
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Morgan, Meagan J ..................... *Disclosed no conflict of interest.*
Morgan, Vince .......................... *Disclosed no conflict of interest.*
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Moridi, Atieh .......................... *Disclosed no conflict of interest.*
Morimoto, Masatoshi .................. *Disclosed no conflict of interest.*
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Morishita, Yuri .......................... *Disclosed no conflict of interest.*
Morita, Akira .......................... *Disclosed no conflict of interest.*
Morita, Yugo .......................... *Disclosed no conflict of interest.*
Morledge, Alexander .................. *Disclosed no conflict of interest.*
Morrell, Nathan T ..................... *Disclosed no conflict of interest.*
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Morrey, Mark E ......................... 7B: Elsevier.
Morrey, Mark E. ....................... 7B: Elsevier.
Morris, Alan .......................... *Disclosed no conflict of interest.*
Morris, Grace .......................... *Disclosed no conflict of interest.*
Morris, Matthew ....................... *Disclosed no conflict of interest.*
Morse, Kyle - Sustain Surgical co-owner, Sustain Surgical co-founder.

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Morton, Amy M - Disclosed no conflict of interest.

Moschetti, Wayne E - Depuy, Hereaus, Depuy, Smith and Nephew, Depuy, OREF, Microgen Dx, PJI CPG committee AAOS.

Moschini, Greta - Disclosed no conflict of interest.

Moshage, Sara G - Disclosed no conflict of interest.

Motoi, Naoki - Disclosed no conflict of interest.

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Moua, Jeanne G - Disclosed no conflict of interest.

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Mourkioti, Foteini - Disclosed no conflict of interest.

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Mobahadhi, Mohammadreza - Disclosed no conflict of interest.

Movassaghi, Kamran - Disclosed no conflict of interest.

Mowry, Katie C - Organogenesis.

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Mpofu, Laura - Disclosed no conflict of interest.

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Mueri, Christine - Zimmer Biomet.
Muhlrad, Erika P. .........................Disclosed no conflict of interest.
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Mukherjee, Kaushik ......................Disclosed no conflict of interest.
Mukherjee, Satanik ......................Disclosed no conflict of interest.
Mulcahey, Mary K .......................Disclosed no conflict of interest.
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Mullen, Scott ............................Disclosed no conflict of interest.
Mullen, Scott ............................3B: Arthrex.
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Munassi, Steven .........................Disclosed no conflict of interest.
Mundy, Christina M .....................Disclosed no conflict of interest.
Muneoka, Ken ............................Disclosed no conflict of interest.
Munger, Alana M .........................Disclosed no conflict of interest.
Munoz, Asier .............................Disclosed no conflict of interest.
Munsch, Maria ...........................Disclosed no conflict of interest.
Murahashi, Yasutaka ....................Disclosed no conflict of interest.
Murakami, Hideki .......................Disclosed no conflict of interest.
Murakami, Kimihide .....................Disclosed no conflict of interest.
Murakami, Masaaki .....................Disclosed no conflict of interest.
Murakami, Ryo .........................Disclosed no conflict of interest.
Muralidharan, Krishna ................Disclosed no conflict of interest.
Murata, Akimasa .......................Disclosed no conflict of interest.
Murata, Kenji ...........................Disclosed no conflict of interest.
Murata, Koichi ..........................Disclosed no conflict of interest.
Murata, Shizumasa .....................Disclosed no conflict of interest.
Murata, Yoichi .........................Disclosed no conflict of interest.
Muratoglu, Orhun ................. 1: Corin, Mako, Iconacy, Renovis, Arthrex, ConforMIS, Meril Healthcare, Exactech, Cambridge Polymer Group, 4: Cambridge Polymer Group, Orthopedic Technology Group, Alchimist.

Muratoglu, Orhun K ................. 1: Corin, Mako, Iconacy, Renovis, Arthrex, ConforMIS, Meril Healthcare, Exactech, Cambridge Polymer Group, 4: Cambridge Polymer Group, Orthopedic Technology Group, Alchimist.

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Murray, Hallie ....................... 3A: Tyber Medical.

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Murugesh, Deepa ................... Disclosed no conflict of interest.


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Muto, Tomoyuki ...................... Disclosed no conflict of interest.

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Myers, Casey ......................... 4: Ortho Haus, LLC.
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Myers, Casey .............................. 5: DePuy.

Myers, Casey A ......................... 4: Ortho Haus, LLC.

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Myers, Richard ........................ 5: Tyber Medical.

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Naessig, Sara A ........................ Disclosed no conflict of interest.

Nagae, Masateru ........................ Disclosed no conflict of interest.

Nagai, Kanto ............................ Disclosed no conflict of interest.

Nagai-Tanima, Momoko ............... 6: ITO CO., LTD.

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Nair, Lakshmi .......................... 8: Regenerative Engineering and Translational Medicine.

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Najibi, Alexander ..................... Disclosed no conflict of interest.
Nakada, Eiji .................. Disclosed no conflict of interest.
Nakagawa, Koichi ............... Disclosed no conflict of interest.
Nakagawa, Makoto ............... Disclosed no conflict of interest.
Nakagawa, Shuji ................ Disclosed no conflict of interest.
Nakagawa, Yusuke ............... Disclosed no conflict of interest.
Nakahara, Ichiro ............... Disclosed no conflict of interest.
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Nakahara, Ryuichi ............... Disclosed no conflict of interest.
Nakamichi, Ryo .................. Disclosed no conflict of interest.
Nakamura, Masaya ............... Disclosed no conflict of interest.
Nakamura, Noriko ............... Disclosed no conflict of interest.
Nakamura, Shinichiro .......... Disclosed no conflict of interest.
Nakamura, Shinichiro .......... 5: Kyocera.
Nakamura, Tomomasa ........... Disclosed no conflict of interest.
Nakanishi, Kazuyoshi .......... Disclosed no conflict of interest.
Nakano, Naoki .................. Disclosed no conflict of interest.
Nakashima, Yasuharu .......... Disclosed no conflict of interest.
Nakashima, Yoshio ............. 3A: Teijin Nakashima Medical Co., Ltd.
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Nakasone, Satoshi ............. Disclosed no conflict of interest.
Nakata, Eiji ..................... Disclosed no conflict of interest.
Nakata, Ken ..................... Disclosed no conflict of interest.
Nakayama, Karina H .......... Disclosed no conflict of interest.
Nakayama, Naoki ............... 4: Amgen.
Nakla, Andrew ................. Disclosed no conflict of interest.
Nakla, Andrew P. ............. Disclosed no conflict of interest.
Nalbach, Mathis ............... Disclosed no conflict of interest.
Nam, Jinwoo ..................... Disclosed no conflict of interest.
Nam, Sungmin .................. Disclosed no conflict of interest.
Namiranian, Mehrzad .......... Disclosed no conflict of interest.
Nanavaty, Aaron ...................... Disclosed no conflict of interest.
Naniwa, Shuichi ...................... Disclosed no conflict of interest.
Nano, Sarah .......................... Disclosed no conflict of interest.
Napier, T C ............................ Disclosed no conflict of interest.
Napora, Joshua ...................... Disclosed no conflict of interest.
Naqib, Ankur .......................... Disclosed no conflict of interest.
Naqvi, Kumail .......................... Disclosed no conflict of interest.
Naqvi, Syeda Masooma .............. Disclosed no conflict of interest.
Narkar, Vihang ...................... Disclosed no conflict of interest.
Narro, Analisa .......................... Disclosed no conflict of interest.
Nash, Kylie E .......................... Disclosed no conflict of interest.
Nasr, Andrew J. ...................... Disclosed no conflict of interest.
Nassour, Nour .......................... Disclosed no conflict of interest.
Nasu, Yoshihisa ........................ Disclosed no conflict of interest.
Natarajan, Padmaja .................. Disclosed no conflict of interest.
Nath, Sudarshini ..................... Disclosed no conflict of interest.
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Natoli, Roman M ..................... Disclosed no conflict of interest.
Nau, Thomas .......................... Disclosed no conflict of interest.
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Nawabi, Danyal ...................... 4: ownership interest in BetterPT and Engage Uni., 6: Received education payments from Arthrex, Styker, Smith and Nephew, and hospitality payments from Depuy Synthes and Biomet Orthopedics.
Nazal, Mark R .......................... Disclosed no conflict of interest.
Nazarian, Ara .......................... Disclosed no conflict of interest.
Nazemi, Alireza ......................... Disclosed no conflict of interest.
Naznin, Mahmuda ...................... Disclosed no conflict of interest.
Nazzal, Ehab ............................ Disclosed no conflict of interest.
Nazzal, Ehab M .......................... Disclosed no conflict of interest.
Nazzal, Murad ............................ Disclosed no conflict of interest.
Neal, Sydney ............................ Disclosed no conflict of interest.
Neal, Sydney M .......................... Disclosed no conflict of interest.
Nedder, Victoria J ...................... Disclosed no conflict of interest.
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Nellans, Kate W .......................... Disclosed no conflict of interest.
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Nelson, Alexis K ......................... Disclosed no conflict of interest.
Nelson, Amanda ........................ Disclosed no conflict of interest.
Nelson, Anna-Laura .................... Disclosed no conflict of interest.
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Nelson, Jayson R ....................... Disclosed no conflict of interest.
Nelson, Jessica .......................... Disclosed no conflict of interest.
Nelson, Jessica A ....................... Disclosed no conflict of interest.
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Nelson, Sandra Bliss .................. Disclosed no conflict of interest.
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Nepple, Cecilia .......................... Disclosed no conflict of interest.
Nepple, Cecilia M ....................... Disclosed no conflict of interest.
Neri, John P .................................. Disclosed no conflict of interest.
Neri, John P .................................. Disclosed no conflict of interest.
Neto, Mozart Q .................................. Disclosed no conflict of interest.
Neufeld, Eric V .................................. Disclosed no conflict of interest.
Neuwirth, Alexander L .................. Disclosed no conflict of interest.
Newcomb, Emily .......................... Disclosed no conflict of interest.
Newell, Benjamin W .................. Disclosed no conflict of interest.
Newell, Benjamin W .................. Disclosed no conflict of interest.
Newman, Harrah .................. Disclosed no conflict of interest.
Newman, Hunter .................. Disclosed no conflict of interest.
Newton, Michael .................. Disclosed no conflict of interest.
Newton, Michael D .................. Disclosed no conflict of interest.
Newton, Patrick .................. Disclosed no conflict of interest.
Ney, Kayla E .................. Disclosed no conflict of interest.
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Ng, Mitchell ........................ 3B: Ferghana Partners.
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Nguyen, Dai Hai .................. Disclosed no conflict of interest.
Nguyen, Michael .................. Disclosed no conflict of interest.
Nguyen, Nicholas .................. Disclosed no conflict of interest.
Nguyen, Phong K .................. Disclosed no conflict of interest.
Nguyen, Uyen N .................. Disclosed no conflict of interest.
Nguyen-Edquilang, Julie ........... Disclosed no conflict of interest.
Ngwe, Hervé .................. Disclosed no conflict of interest.
Nhan, Jordan .................. Disclosed no conflict of interest.

Nho, Shane ................................**Disclosed no conflict of interest.**


Ni, Jianlong ...............................**Disclosed no conflict of interest.**

Nian, Patrick ................................**Disclosed no conflict of interest.**

Nicholas, Mikolajewicz..............**Disclosed no conflict of interest.**

Nichols, Anne E.C. .................**Disclosed no conflict of interest.**

Nichols, Anne EC ......................**Disclosed no conflict of interest.**

Nichols, Jennifer A .................**Disclosed no conflict of interest.**

Nichols, Jennifer A. ...............**Disclosed no conflict of interest.**

Nichols, Michael .......................**Disclosed no conflict of interest.**

Nicholson, Allen .......................**Disclosed no conflict of interest.**

Nicholson, Gregory .................**Disclosed no conflict of interest.**

Nicholson, Howard .................**Disclosed no conflict of interest.**

Nicolaou, Daemeon .................2: AONA.

Nicolas, Metzler F .....................**Disclosed no conflict of interest.**

Nicolay, Richard .....................**Disclosed no conflict of interest.**

Nicoll, Steven .........................**Disclosed no conflict of interest.**

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Niebur, Glen ..............................5: DePuy Synthes.

Niebur, Glen L .........................4: Multiple, 5: DePuy Synthes.

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Niikura, Takahiro .......................... 5: Tomita Pharmaceutical Co. Ltd.
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Nims, Robert J. ............................. 1: Agathos, 7A: Agathos.
Nims, Robert J. ............................. 7A: Agathos, 7B: Agathos.
Ning, Bin ..................................... Disclosed no conflict of interest.
Ninomiy, Toshiharu ......................... Disclosed no conflict of interest.
Nippolainen, Ervin ......................... Disclosed no conflict of interest.
Nishi, Masanori .............................. Disclosed no conflict of interest.
Nishida, Keiichiro ......................... Disclosed no conflict of interest.
Nishida, Kotaro .............................. Disclosed no conflict of interest.
Nishida, Kyohei .............................. Disclosed no conflict of interest.
Nishida, Ryota ............................... Disclosed no conflict of interest.
Nishida, Yoshio .............................. Disclosed no conflict of interest.
Nishimoto, Hanako ......................... Disclosed no conflict of interest.
Nishimura, Akinobu ....................... Disclosed no conflict of interest.
Nishimura, Fumihiro ...................... Disclosed no conflict of interest.
Nishimura, Haruki ......................... Disclosed no conflict of interest.
Nishimura, Ichiro ......................... Disclosed no conflict of interest.
Nishimura, Yuki ............................ Disclosed no conflict of interest.
Nishio, Naoko .............................. Disclosed no conflict of interest.
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Noble, Philip C ...................... 1: Zimmer Biomet; Stryker, 3B: Zimmer Biomet, 4: Joint View, 7B: Springer, 9: International Society for Technology in Arthroplasty.

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Noll, Alexander ..................... Disclosed no conflict of interest.

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Noonan, Benjamin .................. Disclosed no conflict of interest.

Noonan, Benjamin C ............... Disclosed no conflict of interest.

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Novais, Eduardo D ................ Disclosed no conflict of interest.

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Novak, Kendra ...................... Disclosed no conflict of interest.
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Nuelle, Clayton...2: Vericel, Arthrex, 3B: Guidepoint Consulting, 6: AO Foundation, Arthroscopy, 7B: Arthroscopy, 8: Arthroscopy, 9: AAOS, AOSSM, AANA.
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Nunez, Johanna H...Disclosed no conflict of interest.
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Nwachuku, Ikenna...Disclosed no conflict of interest.
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Ocampo, Ricardo ........................................... Disclosed no conflict of interest.
Ochenjele, George ........................................... Disclosed no conflict of interest.
Ochi, Hiroki ........................................... Disclosed no conflict of interest.
Ochiai, Naoyuki ........................................... Disclosed no conflict of interest.
Oda, Takahiro ........................................... Disclosed no conflict of interest.
Oda, Yoshitaka ........................................... Disclosed no conflict of interest.
Oe, Keisuke ........................................... Disclosed no conflict of interest.
Oest, Megan E ........................................... Disclosed no conflict of interest.
Ogando, Courtney ........................Disclosed no conflict of interest.
Ogasawara, Issei .........................Disclosed no conflict of interest.
Ogawa, Munehiro .........................Disclosed no conflict of interest.
Ogawa, Takahisa .........................Disclosed no conflict of interest.
Ogawa, Takeshi ..........................Disclosed no conflict of interest.
Ogawa, Takuya ............................Disclosed no conflict of interest.
Oghenesume, Oghenewoma P........Disclosed no conflict of interest.
Ogunlade, Olusegun .....................Disclosed no conflict of interest.
Ogunsola, Ayobami .....................Disclosed no conflict of interest.
Ogunsola, Ayobami S ..................Disclosed no conflict of interest.
Ogura, Takahiro .........................Disclosed no conflict of interest.
Oh, Chundo ...............................Disclosed no conflict of interest.
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Oh, Grace .................................Disclosed no conflict of interest.
Oh, Joo Han ...............................Disclosed no conflict of interest.
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Ohara, Tomoyuki .........................Disclosed no conflict of interest.
Ohashi, Suzuyo .........................Disclosed no conflict of interest.
Ohkoshi, Yasumitsu .....................Disclosed no conflict of interest.
Ohnishi, Hiroki ..........................Disclosed no conflict of interest.
Ohno, Kinji ...............................Disclosed no conflict of interest.
Ohori, Tomoki ............................Disclosed no conflict of interest.
Oichi, Takeshi ............................Disclosed no conflict of interest.
Oikawa, Ryunosuke ......................Disclosed no conflict of interest.
Oikawa, Shinya ...........................Disclosed no conflict of interest.
Ojanen, Simo .............................Disclosed no conflict of interest.
Okada, Keiko .............................Disclosed no conflict of interest.
Okada, Seiji ..............................Disclosed no conflict of interest.
Okada, Shuichi ....................... Disclosed no conflict of interest.
Okada, Yohei ........................ Disclosed no conflict of interest.
Okamoto, Masakazu ............... Disclosed no conflict of interest.
Okamura, Kensuke ................. Disclosed no conflict of interest.
Okawa, Atsushi ....................... Disclosed no conflict of interest.
Okazaki, Ken ......................... Disclosed no conflict of interest.
Okazaki, Tomoya .................... Disclosed no conflict of interest.
Oki, Satoshi .......................... Disclosed no conflict of interest.
Okimura, Kenjiro ................... Disclosed no conflict of interest.
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Oktarina, Anastasia ................. Disclosed no conflict of interest.
Okuyama, Koki ....................... Disclosed no conflict of interest.
Oladimeji, Akinola .................. Disclosed no conflict of interest.
Oladimeji, Akinola E ............... Disclosed no conflict of interest.
Oladiran, Ajibola .................... Disclosed no conflict of interest.
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Oliver, David ........................ Disclosed no conflict of interest.
Oliver, Elizabeth A ................ Disclosed no conflict of interest.
Olson, Lucas C ....................... Disclosed no conflict of interest.
Omich, Yasuyuki ..................... Disclosed no conflict of interest.
Omire-Mayor, DianneMarie ....... Disclosed no conflict of interest.
Omoumi, Patrick ..................... Disclosed no conflict of interest.
Omoyni, Richard ..................... Disclosed no conflict of interest.
Onaga, Masamichi ................... Disclosed no conflict of interest.
Ondrechen, Mary ................... Disclosed no conflict of interest.
Ong, Jemi ............................... Disclosed no conflict of interest.
Ong, Michael Tim yun ............... Disclosed no conflict of interest.
Onggo, Sharon ............................. Disclosed no conflict of interest.
Ongini, Esteban .............................. Disclosed no conflict of interest.
Onishi, Eijiro ................................. Disclosed no conflict of interest.
Onishi, Kentaro .............................. Disclosed no conflict of interest.
Onodera, Jun ................................. Disclosed no conflict of interest.
Onodera, Tomohiro .......................... Disclosed no conflict of interest.
Onoi, Yuma ...................................... Disclosed no conflict of interest.
Onyekweli, Tito .............................. Disclosed no conflict of interest.
Opalinski, Jacob ............................... 3A: Garwood Medical Devices, 4: Garwood Medical Devices.
Opoka, Allen J. ............................... Disclosed no conflict of interest.
Oral, Ebru .......................... 1: Corin, Iconacy, Arthrex, ConforMIS, Aston Medical, Exactech, 3B: WL Gore, 7B: JBMR, 8: JBMR, 9: SFB.
Oral, Ebru .......................... 1: Corin, Iconacy, Renovis, Arthrex, ConforMIS, Meril Healthcare, Exactech; 3B-WL Gore & Assoc; 7/8 – JBMR; SFB.
Orava, Heta ................................. Disclosed no conflict of interest.
Oravec, Daniel ............................... Disclosed no conflict of interest.
Ordonez Diaz, Tamara .......................... Disclosed no conflict of interest.
Ordway, Nathaniel R ...................... 5: Stryker.
Ordway, Nathaniel R ...................... 5: Stryker.
Ormond, Michael ............................. 3A: Stryker, 4: Stryker.
Ornitz, David ............................... Disclosed no conflict of interest.
Ornowski, Jessica N .......................... Disclosed no conflict of interest.
Oropallo, Jaiden ............................. Disclosed no conflict of interest.
Orozco, Brianna ............................. Disclosed no conflict of interest.
Orozco, Brianna S .......................... *Disclosed no conflict of interest.*
Orr, Daniel .................................. *Disclosed no conflict of interest.*
Orr, Sophie .................................. *Disclosed no conflict of interest.*
Ortolani, Maurizio .......................... *Disclosed no conflict of interest.*
Oruc, Doga .................................. 3A: MTF Biologics.
Osborn, Zachary ............................. *Disclosed no conflict of interest.*
Osei-Hwedieh, David ....................... *Disclosed no conflict of interest.*
Osei-Hwedieh, David O. ................... *Disclosed no conflict of interest.*
Oshige, Toshihisa ........................... *Disclosed no conflict of interest.*
Oshima, Yasushi ............................. *Disclosed no conflict of interest.*
Oshiro, Hiromichi ........................... *Disclosed no conflict of interest.*
Osipov, Benjamin ........................... *Disclosed no conflict of interest.*
Osone, Tatsunori ............................ *Disclosed no conflict of interest.*
Ostermann, Lauren ........................... *Disclosed no conflict of interest.*
Ota, Mitsutoshi .............................. *Disclosed no conflict of interest.*
Ota, Satoshi ................................. *Disclosed no conflict of interest.*
Otani, Shunya ............................... *Disclosed no conflict of interest.*
Otero, Miguel ............................... *Disclosed no conflict of interest.*
Ott, Kelly R ................................. *Disclosed no conflict of interest.*
Ottenberg, Gregory .......................... *Disclosed no conflict of interest.*
Ou, Joshua ................................. *Disclosed no conflict of interest.*
Ouchi, Koki ................................. *Disclosed no conflict of interest.*
Ouellet, Jean ............................... *Disclosed no conflict of interest.*
Ouellet, Jean A ............................. *Disclosed no conflict of interest.*
Ouellette, Elizabeth A .................... *Disclosed no conflict of interest.*
Ouerfelli, Ouathak .......................... *Disclosed no conflict of interest.*
Outerleys, Jereme .......................... 3B: Theia Markerless Inc.
Ou-Yang, David ............................. *Disclosed no conflict of interest.*
Overmiller, Brock ......................... *Disclosed no conflict of interest.*
Overmiller, Brock ......................... 3A: Caira Surgical.
Overybey, Juliana ....................... Disclosed no conflict of interest.
Owen, Aaron .......................... Disclosed no conflict of interest.
Owen, Izzy .............................. Disclosed no conflict of interest.
Owens, Brett .......................... Disclosed no conflict of interest.
Owens, Brett D .......................... 3B: Vericel, Miach Orthopaedics.
Owens, Jade S .......................... Disclosed no conflict of interest.
Owens, Jade S .......................... Disclosed no conflict of interest.
Owieka, Anais ......................... Disclosed no conflict of interest.
Owings, Tammy ....................... Disclosed no conflict of interest.
Oxendine, Ila .......................... Disclosed no conflict of interest.
Oya, Yasutaka .......................... Disclosed no conflict of interest.
Oyaizu, Takuya ....................... Disclosed no conflict of interest.
Oyebamiji, Omolabake .............. Disclosed no conflict of interest.
Oyekan, Anthony ..................... Disclosed no conflict of interest.
Oyer, Mark ............................. Disclosed no conflict of interest.
Ozaki, Toshifumi ...................... Disclosed no conflict of interest.
Ozbek, Emri Anil ..................... Disclosed no conflict of interest.
Ozeki, Nobutake ...................... Disclosed no conflict of interest.
Paakkari, Petri ....................... Disclosed no conflict of interest.
Pacheco, Marguerite A ............ Disclosed no conflict of interest.
Pacheco, Yan .......................... Disclosed no conflict of interest.
Pacheco-Brousseau, Lissa .......... Disclosed no conflict of interest.
Paci, James ............................ Disclosed no conflict of interest.
Pacifici, Maurizio .................... Disclosed no conflict of interest.
Pack, Chelsea .......................... Disclosed no conflict of interest.
Packer, Jonathan ..................... Disclosed no conflict of interest.


Padua Tavares, Luciana ..........................Disclosed no conflict of interest.

Page, Mitchell ..................................Disclosed no conflict of interest.

Page, Suzanne ..................................Disclosed no conflict of interest.

Paglia, David ..................................Disclosed no conflict of interest.

Pahoff, Stephen ..............................Disclosed no conflict of interest.

Pajulas, Abigail ..................................Disclosed no conflict of interest.

Paku, Daniel ..................................Disclosed no conflict of interest.

Pal, Suvra .......................................Disclosed no conflict of interest.

Paladino, Lucas ..................................Disclosed no conflict of interest.

Palepu, Vivek ..................................Disclosed no conflict of interest.


Palma, Joaquin ..............................Disclosed no conflict of interest.

Palmer, Daniel .................................Disclosed no conflict of interest.

Pan, Chi-Chun ..................................Disclosed no conflict of interest.

Pan, Haiying ..................................Disclosed no conflict of interest.

Pan, Xiaohua ..................................Disclosed no conflict of interest.

Panchapakesan, Karuna ......................Disclosed no conflict of interest.

Pandey, Manoj ..................................Disclosed no conflict of interest.

Pandian, Ganesh N ............................Disclosed no conflict of interest.

Pandit, Abhay ..................................Disclosed no conflict of interest.

Pando, Alejandro .............................Disclosed no conflict of interest.

Pandya, Nirav ..................................Disclosed no conflict of interest.

Panebianco, Christopher J. ..............Disclosed no conflict of interest.

Panfilov, Egor ..................................Disclosed no conflict of interest.

Pang, Yidan ..................................Disclosed no conflict of interest.

Panicker, Arjun ...............................Disclosed no conflict of interest.

Pannellini, Tania ..............................Disclosed no conflict of interest.
Pannu, Tejbir ............................................... 8: Journal of Orthopaedic Surgery and Research.
Paoli, Allison .............................................. Disclosed no conflict of interest.
Papalamprou, Angela ................................. 4: BioNTech.
Papalamprou, Angela ................................. 4: BioNTech SE.
Para, Ashok .............................................. Disclosed no conflict of interest.
Paradi, Sophie G ........................................ Disclosed no conflict of interest.
Pareek, Ayoosh ........................................... Disclosed no conflict of interest.
Pareek, Ayoosh ........................................... 6: Dupuy Synthes - Food and Beverage.
Paria, Nandina .......................................... Disclosed no conflict of interest.
Parides, Michael ........................................ Disclosed no conflict of interest.
Parikh, Manish .......................................... Disclosed no conflict of interest.
Parisi, Thomas ........................................... Disclosed no conflict of interest.
Park, Adam Y ............................................ Disclosed no conflict of interest.
Park, Bo Young .......................................... Disclosed no conflict of interest.
Park, Christine .......................................... Disclosed no conflict of interest.
Park, David (Hyeon) ................................. Disclosed no conflict of interest.
Park, GaYoung .......................................... Disclosed no conflict of interest.
Park, Gil Young .......................................... Disclosed no conflict of interest.
Park, Il-Jung ............................................. Disclosed no conflict of interest.
Park, Jae Woo .......................................... Disclosed no conflict of interest.
Park, Joo Hyun .......................................... Disclosed no conflict of interest.
Park, Jung-wee .......................................... Disclosed no conflict of interest.
Park, Kwan .............................................. Disclosed no conflict of interest.
Park, Kwang Hwan ................................. Disclosed no conflict of interest.
Park, Sang-Hyun ....................................... Disclosed no conflict of interest.
Park, Seo-Young ........................................ Disclosed no conflict of interest.
Park, Wonman .......................................... Disclosed no conflict of interest.
Parker, David ........................................... 3C: 360 Med Care, 4: Trium, Personalised Surgery, 5: Arthrex, Smith & Nephew.
Parker, Dylan J ........................................... Disclosed no conflict of interest.
Parker, Sarah ........................................Disclosed no conflict of interest.
Parola, Rown ........................................Disclosed no conflict of interest.
Parreno, Justin ......................................Disclosed no conflict of interest.
Parson, Jacob .......................................Disclosed no conflict of interest.
Parsons, Bradford O ..............................3B: Arthrex.
Partain, Brittany ..................................Disclosed no conflict of interest.
Parvataneni, Hari ..................................Disclosed no conflict of interest.
Pascual-Garrido, Cecilia .........................3B: ARVIS, LEXI, 5: NIH, OREF.
Passini, Fabian ....................................Disclosed no conflict of interest.
Pasta, Salvatore ....................................Disclosed no conflict of interest.
Pasternack, Jordan B ..............................Disclosed no conflict of interest.
Paszek, Matthew ..................................Disclosed no conflict of interest.
Patel, Akshar V ....................................Disclosed no conflict of interest.
Patel, Bharat ......................................3A: DePuy Synthes of Johnson and Johnson MedTech.
Patel, Bharat ......................................3A: DePuy Synthes.
Patel, Deep ........................................Disclosed no conflict of interest.
Patel, Jay ............................................Disclosed no conflict of interest.
Patel, Jay ............................................3B: NovoPedics, 4: NovoPedics, Forsagen.
Patel, Jay M ..............................3B: NovoPedics Inc., 4: NovoPedics Inc., Forsagen LLC.
Patel, Om ........................................Disclosed no conflict of interest.
Patel, Pritesh .....................................Disclosed no conflict of interest.
Patel, Priya ........................................3A: Stryker, 4: Stryker.
Patel, Rohan R ....................................Disclosed no conflict of interest.
Patel, Ronak .......................................Disclosed no conflict of interest.
Patel, Sandip .......................................Disclosed no conflict of interest.
Patel, Savan ........................................Disclosed no conflict of interest.
Patel, Shirali .......................................Disclosed no conflict of interest.
Patel, Shivam H .................................Disclosed no conflict of interest.
Patel, Stuti .........................................Disclosed no conflict of interest.
Patel, Yashna .....................................Disclosed no conflict of interest.
Patetta, Michael Disclosed no conflict of interest.
Pathak, Suraj Disclosed no conflict of interest.
Pathak, Surak Disclosed no conflict of interest.
Pathrikar, Tanvi V Disclosed no conflict of interest.
Paton, Kat Disclosed no conflict of interest.
Paton, Kat O Disclosed no conflict of interest.
Patrick, Cahill Disclosed no conflict of interest.
Patterson, Folly Disclosed no conflict of interest.
Patterson, Folly M Disclosed no conflict of interest.
Patton, Kayley Disclosed no conflict of interest.
Paudel, Sharada Disclosed no conflict of interest.
Paulsen, Katelyn Disclosed no conflict of interest.
Paulus, Paige Disclosed no conflict of interest.
Paulus, Paige A Disclosed no conflict of interest.
Pavani, Chiara Disclosed no conflict of interest.
Pavão, Douglas Mello Disclosed no conflict of interest.
Pavlesen, Sonja Disclosed no conflict of interest.
Paxton, Naomi C Disclosed no conflict of interest.
Payne, Ashley Disclosed no conflict of interest.
Payne, Ashley N Disclosed no conflict of interest.
Payne, Christian Disclosed no conflict of interest.
Payne, Karin Disclosed no conflict of interest.
Payne, Karin A 9: ORS.
Payne, McKenna Disclosed no conflict of interest.
Paz, Alexander Disclosed no conflict of interest.
Pean, Christian Disclosed no conflict of interest.
Pean, Christian A Disclosed no conflict of interest.
Pearl, Adam Disclosed no conflict of interest.

Pearle, Andrew 1: Royalties from Zimmer Biomet, 3B: consulting fees from Exactech, Smith & Nephew, Stryker Corporation, and Zimmer Biomet, 4: Ownership interest in Engage Surgical, Knee Guardian, PerfectFit, and Therma1, 6: Education support from Arthrex.
Pearle, Andrew .......................3B: Depuy Synthes, Smith and Nephew, 5: Stryker Corp.
Pearle, Andrew .......................3B: - Stryker - Mako Surgical Corp., Biomet, Inc.
Pearle, Andrew .......................5: immer Biomet, Stryker, Exactech, Smith & Nephew, Arthrex.
Pearle, Andrew .......................1: Zimmer Biomet, Stryker, Exactech, Smith & Nephew, Arthrex, 3A: KneeGuardian, ACLIP.
Pearle, Andrew .......................3B: Exactech, Smith & Nephew, Stryker, Zimmer Biomet, Arthrex, Engage Surgical, Knee Guardian, PerfectFit, Therma1.
Pearson, Hailley ......................Disclosed no conflict of interest.
Pedaprolu, Krishna ..................Disclosed no conflict of interest.
Pedoia, Valentina ....................5: Research funding from GE Healthcare.
Pedoia, Valentina ....................Disclosed no conflict of interest.
Peebles, Annalise ....................Disclosed no conflict of interest.
Peffers, Mandy .......................Disclosed no conflict of interest.
Pei, Ming .............................Disclosed no conflict of interest.
Pekmezian, Ashley ..................Disclosed no conflict of interest.
Pellegrinelli, Alexandre ..........6: Institutional support for this research was provided by MicroPort Orthopedics.
Pellegrinelli, Alexandre .......Disclosed no conflict of interest.
Pelle, Dominic .......................Disclosed no conflict of interest.
Pellegrini, Caroline ................Disclosed no conflict of interest.
Pelletier, Matthew .................Disclosed no conflict of interest.
Pelletier, Matthew H ................1: SeaSpine.
Pellicore, Matthew J ................Disclosed no conflict of interest.
Peloquin, John ......................Disclosed no conflict of interest.
Peluso, Catherine ..................3A: Paid Employee of Stryker.
Pena Fernandez, Marta ..........Disclosed no conflict of interest.
Pendleton, Diana ...................Disclosed no conflict of interest.
Peng, Xiaoyuan .....................Disclosed no conflict of interest.
Peng, Ying ..........................Disclosed no conflict of interest.
Peng, Yun ...........................3A: NuVasive.
Peniche Silva, Carlos J. Disclosed no conflict of interest.

Pennebaker, Scott E. Disclosed no conflict of interest.

Pepe, Gregory 3A: Stryker, 4: Stryker.

Peralta, Santiago Disclosed no conflict of interest.

Peralta-Herrera, Eduardo Disclosed no conflict of interest.

Perce, Alex Disclosed no conflict of interest.

Peredo, Ana Disclosed no conflict of interest.

Peredo, Ana P. Disclosed no conflict of interest.

Pereira, Renata C. Disclosed no conflict of interest.

Perez, Katee N. Disclosed no conflict of interest.


Perreault, Eric J. Disclosed no conflict of interest.

Perrone, Mattia Disclosed no conflict of interest.

Perry, Kevin Disclosed no conflict of interest.

Perry, Tiffany 3B: Misonix— I am a consultant for this company with two current funded research projects going with them.

Persad, Lomas Disclosed no conflict of interest.

Persad, Lomas S. Disclosed no conflict of interest.

Pershad3, Prayag Disclosed no conflict of interest.

Person, Xavier J Disclosed no conflict of interest.

Persons, Amanda L. Disclosed no conflict of interest.

Persson, Andreas Disclosed no conflict of interest.

Peters, James R. Disclosed no conflict of interest.

Peters, James R. Disclosed no conflict of interest.

Petersen, Courtney A. Disclosed no conflict of interest.

Petersen, Emily Disclosed no conflict of interest.

Peterson, Andrew Disclosed no conflict of interest.
Peterson, Andrew C .................. Disclosed no conflict of interest.
Peterson, Andrew C .................. Disclosed no conflict of interest.
Peterson, Benjamin .................. Disclosed no conflict of interest.
Peterson, Danielle F .................. Disclosed no conflict of interest.
Peterson, Jonathan R .................. Disclosed no conflict of interest.
Peterson, Kaya .................. Disclosed no conflict of interest.
Petrick, Anthony .................. Disclosed no conflict of interest.
Petrie, Kyla A .................. Disclosed no conflict of interest.
Petrousek, Stéphane .................. Disclosed no conflict of interest.
Petrov, Dmitriy .................. Disclosed no conflict of interest.
Petruccelli, Joseph .................. Disclosed no conflict of interest.
Pfeiffenberger, Moritz .................. Disclosed no conflict of interest.
Pferdehirt, Lara .................. Disclosed no conflict of interest.
Phadtare, Sangita .................. Disclosed no conflict of interest.
Pham, Christine T.N .................. Disclosed no conflict of interest.
Pham, Christine TN .................. Disclosed no conflict of interest.
Pham, Quang Long .................. Disclosed no conflict of interest.
Phan, Hong .................. Disclosed no conflict of interest.
Phan, Lisa .................. Disclosed no conflict of interest.
Philippon, Marc .................. 1: Smith & Nephew, Arthrosurface, Conmed, 9: AJSM Editorial Board.
Philippon, Marc .................. Disclosed no conflict of interest.
Philippon, Marc C .................. Disclosed no conflict of interest.
Phillips, Jennifer N .................. Disclosed no conflict of interest.
Phillips, Matthew .......................... 3B: Stryker.


Phillips, Rachel .......................... Disclosed no conflict of interest.

Phillips, Tammy .......................... Disclosed no conflict of interest.

Phillips, Tessa .......................... Disclosed no conflict of interest.

Philpott, Holly .......................... Disclosed no conflict of interest.


Phondge, Varoon .......................... Disclosed no conflict of interest.

Placentini, Alexander .................. Disclosed no conflict of interest.

Pianta, Elisa ............................. Disclosed no conflict of interest.

Piarulli, Luigi ............................ Disclosed no conflict of interest.

Piazza, Stephen ......................... 3B: Stryker.

Pichika, Raji ............................. Disclosed no conflict of interest.

Pickering, Edmund I ................... Disclosed no conflict of interest.


Pierce, Kirk ............................. Disclosed no conflict of interest.

Pierce, Kirk C ............................ Disclosed no conflict of interest.

Pietrzak, Maciej ........................ Disclosed no conflict of interest.

Pilkey, Keith ............................. Disclosed no conflict of interest.

Pillai, Ajay ............................... Disclosed no conflict of interest.

Pilson, Holly ............................ Disclosed no conflict of interest.

Pina Jr, Dagoberto ...................... Disclosed no conflict of interest.

Piña Jr., Dagoberto ..................... Disclosed no conflict of interest.

Pinamont, William ..................... Disclosed no conflict of interest.

Pine, Haleigh ........................... Disclosed no conflict of interest.

Pineda Guzman, Roberto A ........... Disclosed no conflict of interest.

Pinette, Megan .......................... Disclosed no conflict of interest.

Pink, Christine ........................ Disclosed no conflict of interest.

Pinpin, Camille ........................ Disclosed no conflict of interest.
Pioli, Peter .........................*Disclosed no conflict of interest.*

Pipitone, Anthony ....................*Disclosed no conflict of interest.*

Piple, Amit ..........................*Disclosed no conflict of interest.*

Piple, Amit S. ..........................*Disclosed no conflict of interest.*

Pitcairn, Samuel .....................*Disclosed no conflict of interest.*

Pittaluga, Julia ..........................3A: Julia Pittaluga.

Piuzzi, Nicolas ..........................3B: Stryker, 8: ISCT, Orthopaedic Research Society.


Piva, Sara ..............................*Disclosed no conflict of interest.*

Pizarek, John A ..........................*Disclosed no conflict of interest.*

Plaisance, Connor .....................*Disclosed no conflict of interest.*

Plank, Christian ..........................3A: Ethris GmbH.


Plano Clark, Vicki .....................*Disclosed no conflict of interest.*

Platz, Uwe ..............................*Disclosed no conflict of interest.*

Pleshko, Nancy ..........................*Disclosed no conflict of interest.*

Ploeg, Heidi-Lynn ......................*Disclosed no conflict of interest.*

Poeze, Martijn ..........................*Disclosed no conflict of interest.*

Pohlig, Ryan ..........................*Disclosed no conflict of interest.*

Poitras, Stephane ......................*Disclosed no conflict of interest.*

Polamalu, Sene .........................*Disclosed no conflict of interest.*

Polamalu, Sene K .......................*Disclosed no conflict of interest.*

Poland, Michael J ......................*Disclosed no conflict of interest.*

Polanek, Maxwell ......................*Disclosed no conflict of interest.*

Poli, Andrea ...........................*Disclosed no conflict of interest.*

Polio, William ..........................*Disclosed no conflict of interest.*
Politikou, Olga .......................... 
Pollok, Karen E .......................... 
Polly, David .......................... 3B: Sl-Bone. 
Polsky, Evan .......................... 
Polster, Joshua ..........................
Polus, Jennifer .......................... 
Pompano, Rebecca R .......................... 
Ponnuru, Padmavathi .......................... 
Popchak, Adam J .......................... 
Poplawski, Jacob ..........................
Popoff, Steven N ..........................
Poramba-Liyanage, Deepani W. .......................... 
Porter, Annie ..........................
Porter, Danni ..........................
Porter, Ryan M ..........................
Post, Corine ..........................
Potluri, Tanvi ..........................
Potter, Barrett ..........................
Potter, Hollis ..........................
Potter, Hollis .......................... 5: GE Healthcare.
Potter, Morgan N. ..........................
Potter, Ryan ..........................
Pounds, Genevieve ..........................
Pourmodheji, Reza ..........................
Pourzal, Robin .......................... 5: Stryker, Zimmer, 8: Biotribology.
Pourzal, Robin .......................... 5: Zimmer, Stryker, 8: Biotribology Journal.
Pourzal, Robin .......................... 5: Zimmer biomet, Stryker, 8: Biotribology.
Pourzal, Robin .......................... 5: Zimmer Biomet, Stryker.
Pourzal, Robin .......................... 5: Styker, Zimmer Biomet, 8: Biotribology.
Pourzal, Robin
Disclosed no conflict of interest.

Pourzal, Robin
Disclosed no conflict of interest.

Pourzal, Robin
Disclosed no conflict of interest.

Pourzal, Robin
Disclosed no conflict of interest.

Pourzal, Robin
Disclosed no conflict of interest.

Pourzal, Robin
Disclosed no conflict of interest.

Pourzal, Robin
Disclosed no conflict of interest.

Pourzal, Robin
Disclosed no conflict of interest.

Powell Smitheman, Hayley
Disclosed no conflict of interest.

Powell, Douglas
Disclosed no conflict of interest.

Power, Rachael N
Disclosed no conflict of interest.

Prabahar, Archana
Disclosed no conflict of interest.

Prabhu, Kevin
Disclosed no conflict of interest.

Pradhan, Gourango
Disclosed no conflict of interest.

Pradhan, Pratik
Disclosed no conflict of interest.

Pranatharthi Haran, Annapurna
Disclosed no conflict of interest.

Preisegger, Matias
Disclosed no conflict of interest.

Premkumar, Ajay
7B: Elsevier: Publishing royalties, financial or material support, 8: HSS Journal: Editorial or governing board.

Premkumar, Ajay
Disclosed no conflict of interest.

Price, Brandon
Disclosed no conflict of interest.

Price, Christopher
Disclosed no conflict of interest.

Price, James
3A: Applied Medical Technology, Inc.

Price, Matthew R
Disclosed no conflict of interest.

Priddy, Lauren B
Disclosed no conflict of interest.

Prieto, Hernan
Disclosed no conflict of interest.

Proffen, Benedikt L
3B: Miach Orthopaedics, 4: Miach Orthopaedics.

Prokop, Mathias
Disclosed no conflict of interest.

Provencher, Matt

Provencher, Matthew
Provencher, Matthew ............... 1: Arthrex, Inc, Anika therapeutics INC, 3B: Arthrex, Inc, 6: Gemini Mountain Medical, LLC, Joint Restoration Foundation, INC, Medwest Associates, Gemini Medical LLC, Bioventus LLC.


Pruneski, James ...................... Disclosed no conflict of interest.

Pruthi, Saksham ..................... Disclosed no conflict of interest.

Pucha, Saitheja A ..................... Disclosed no conflict of interest.

Puetzer, Jennifer L ................... Disclosed no conflict of interest.

Puetzer, Jenny ......................... Disclosed no conflict of interest.

Puetzer, Jenny L ....................... Disclosed no conflict of interest.

Pufe, Thomas .......................... Disclosed no conflict of interest.

Pugely, Andrew J ..................... 3B: Globus Medical, Medtronic, 7A: Globus Medical.


Puloski, Shannon KT ................ Disclosed no conflict of interest.

Punatar, Nisha ....................... Disclosed no conflict of interest.

Punati, Ritvik ......................... Disclosed no conflict of interest.

Pupa, Lauren E ....................... Disclosed no conflict of interest.

Purdue, Edward ...................... Disclosed no conflict of interest.

Puri, Simarjeet ....................... Disclosed no conflict of interest.

Purmessur, Devina ................... Disclosed no conflict of interest.
Puttlitz, Christian

Pyrrak-Nolte, Laura J

Qi, Pan

Qi, Yi

Qian, Baoli

Qian, Lewen

Qian, Yongxian

QIAO, Wei

Qin, Ling

Qin, Qizhi

Qiu, Yusheng

Qu, Feini

Queen, Robin

Queiroz Neto, Mozart

Quenneville, Cheryl

Quevedo Gonzalez, Fernando

Queen, Robin

Queen, Robin

Queiroz Neto, Mozart

Quevedo Gonzalez, Fernando J

Qui, Ruomeng

Quintero, Daniel

Quirk, James

Qureshi, Adeena

Qureshi, Sheeraz

Rachala, Sridhar

Radulski, Mariana

Raffai, Robert

Raggio, Cathleen

Rahimi, Homaira

Rahman, Atia

Disclosed no conflict of interest.
Rai, Ajinkya ........................................Disclosed no conflict of interest.
Rai, Muhammad Farooq ...............Disclosed no conflict of interest.
Raina, Deepak.................................Disclosed no conflict of interest.
Raina, Deepak B.............................4: DBR owns stock in a non-listed company Moroxite AB.
Raina, Deepak Bushan...................4: DR is stockholder in Moroxite AB, Sweden.
Raina, Deepak Bushan...................4: Deepak Raina is stockholder in Moroxite AB, Sweden.
Rainbolt, Joshua .........................Disclosed no conflict of interest.
Rainbow, Roshni............................Disclosed no conflict of interest.
Rainer, William G.........................Disclosed no conflict of interest.
Rainforth, WM..............................Disclosed no conflict of interest.
Rajagopal, Karthikeyan..................Disclosed no conflict of interest.
Rajah, Elmer.................................Disclosed no conflict of interest.
Rajahraman, Vinaya......................Disclosed no conflict of interest.
Rajapakse, Chamith.......................Disclosed no conflict of interest.
Rajapakse, Chamith S....................Disclosed no conflict of interest.
Raji, Oluwatodimu Richard.............3B: Aurora Spine, PainTEQ, Osteo Centric Technologies, Facet Dynamics, Olympus Terumo Biomaterials.
Raji, Oluwatodimu Richard.............3B: Aurora Spine, PainTEQ, Osteo Centric Therapeutics, Facet Dynamics, Olympus Terumo Biomaterials.
Rakauskas, Taylor R......................Disclosed no conflict of interest.
Rakhra, Kawan.............................Disclosed no conflict of interest.
Rakowski, Dylan...........................Disclosed no conflict of interest.
Rama Krishna Meka, Sai...............Disclosed no conflict of interest.
Ramadan, Ahmed..........................Disclosed no conflict of interest.
Ramanathan, Rahul.......................Disclosed no conflict of interest.
Ramappa, Arun.............................Disclosed no conflict of interest.
Ramasamy, Soundhar.....................Disclosed no conflict of interest.
Ramesh, SOWMYA.........................Disclosed no conflict of interest.
Ramirez, Gabriel.........................Disclosed no conflict of interest.
Ramji, Alim F...............................Disclosed no conflict of interest.
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Ranawat, Anil ......................... 2: Arthrex, 3B: Anika, Bodycad, MAKO, Smith and Nephew, 4: Conformis, Enhatch.
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Ranganathan, Sruthi .................. *Disclosed no conflict of interest.*
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RAO, Ying ............................... *Disclosed no conflict of interest.*
Rapagna, Sophie ....................... *Disclosed no conflict of interest.*
Rascoe, Alexander .................... *Disclosed no conflict of interest.*
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Rasoulinejad, Parham ............... *Disclosed no conflict of interest.*
Rasquinha, Rhea ....................... *Disclosed no conflict of interest.*
Rate, William ........................... *Disclosed no conflict of interest.*
Rathjen, Jonathan L. ............... *Disclosed no conflict of interest.*
Ratnasamy, Philip ..................... *Disclosed no conflict of interest.*
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...Disclosed no conflict of interest.

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...Disclosed no conflict of interest.

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...Disclosed no conflict of interest.

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...Disclosed no conflict of interest.

Reals, Rebecca  
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Renfree, Sean......................*Disclosed no conflict of interest.*
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Robiati, Louise ................... *Disclosed no conflict of interest.*
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Robinson, James .................. *Disclosed no conflict of interest.*
Robinson, Jessica .................. *Disclosed no conflict of interest.*
Robinson, Samuel .................. *Disclosed no conflict of interest.*
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Rooks, Nynke B …………………………………………………………Disclosed no conflict of interest.
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Rosendorf, Jessica …………………………………………………………Disclosed no conflict of interest.
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Rosengren, Björn E. …………………………………………………………Disclosed no conflict of interest.
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Roy, Krishnendu ..............................*Disclosed no conflict of interest.*
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Ruderman, Lindsey ...................*Disclosed no conflict of interest.*
Rudisill, Katelyn E ......................*Disclosed no conflict of interest.*
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Ruh, Ethan ......................... Disclosed no conflict of interest.
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Rullan, Pedro ...................... Disclosed no conflict of interest.
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Rullkoetter, Paul .................. 4: Ortho Haus LLC.
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Rütten, Stephan .................... Disclosed no conflict of interest.
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Sabino, Fabio ................................Disclosure no conflict of interest.
Sabzevari, Soheil ..............................Disclosure no conflict of interest.
Saccone, Nancy L .............................Disclosure no conflict of interest.
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Sahu, Debasis .................................Disclosure no conflict of interest.
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Saifi, Comron ................................1: Nuvasive, Restore 3D, 3B: Nuvasive (Vertera), Zimmer.
Sailer, Wyatt M ...............................Disclosure no conflict of interest.
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Saito, Kenichiro .............................Disclosure no conflict of interest.
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Saitou, Riku ...................... Disclosed no conflict of interest.
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Sakai, Takashi .................... Disclosed no conflict of interest.
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Sato, Kohei .............................. Disclosed no conflict of interest.
Sato, Seira .............................. Disclosed no conflict of interest.
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Sawamura, Hideaki .............................. Disclosed no conflict of interest.
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*Disclosed no conflict of interest.*

Schmidt, Tannin  
3B: Lubris Biopharma, 4: Lubris Biopharma, 5: Lubris Biopharma, Novartis, 6: Lubris Biopharma.

Schmidt, Tannin A.  

Schmitt, Mark  
*Disclosed no conflict of interest.*

Schmitz, Randy J  
*Disclosed no conflict of interest.*

Schnabel, Lauren V  
*Disclosed no conflict of interest.*

Schnabel, Lauren V.  
*Disclosed no conflict of interest.*

Schnaser, Erik  
3B: Stryker, 5: Smith and Nephew.

Schneble, Christopher A  
*Disclosed no conflict of interest.*

Schneider, Gregory  
*Disclosed no conflict of interest.*

Schneider, Marco T  
*Disclosed no conflict of interest.*

Schneider, Prism  

Schneider, Prism  
5: Johnson & Johnson, Smith & Nephew, 8: Canadian Journal of Surgery, Osteoporosis Canada.

Schneider, Prism S  
5: Johnson & Johnson, Smith & Nephew, 8: Canadian Journal of Surgery, Osteoporosis Canada.

Schnur, Julie  
*Disclosed no conflict of interest.*
Schoenecker, Jonathan ........................ Disclosed no conflict of interest.
Scholl, Brody ................................ Disclosed no conflict of interest.
Scholl, Laura ................................ 3A: Stryker, 4: Stryker.
Schoonen, Anna ............................... Disclosed no conflict of interest.
Schoonraad, Sarah ............................ Disclosed no conflict of interest.
Schoppa, Astrid ................................ Disclosed no conflict of interest.
Schreiber, Martin A ............................ 1: QGenda, 3B: Haemonetics, CSL Behring, Tricol, 4: multiple Pharmaceutical companies, 5: Haemonetics, CSL Behring, 8: Journal of Trauma and Acute Care Surgery, Shock.
Schroder, Steven J ............................. Disclosed no conflict of interest.
Schroeder, Gregory D .......................... Disclosed no conflict of interest.
Schroeppel, J. Paul ............................ 3B: Arthrex, 5: Smith and Nephew, 6: Arthrex fellowship educational funding.
Schueppert, Emily R ........................... Disclosed no conflict of interest.
Schultz, Blake .................................. Disclosed no conflict of interest.
Schulz, Jacob .................................. 3B: orthopediatrics spine paid consultant and defense expert position in medical malpractice local law firm.
Schupbach, Drew .............................. Disclosed no conflict of interest.
Schurman, Charles A. ........................ Disclosed no conflict of interest.
Schwab, Joseph ............................... Disclosed no conflict of interest.
Schwab, Joseph H. ............................ Disclosed no conflict of interest.
Schwartz, Ariel ................................ Disclosed no conflict of interest.
Schwartz, Gabi ................................. Disclosed no conflict of interest.
Schwartz, Zvi ................................ 5: A.B. Dental.
Schwartz, Zvi .................................. 5: AB Dental.
Schwartz, Zvi .................................. Disclosed no conflict of interest.
Schwartz-Fernandes, Francisco ........................ Disclosed no conflict of interest.
Schwarz, Edward ...............Disclosed no conflict of interest.
Schwarz, Edward M ...............Disclosed no conflict of interest.
Schwarz, Edward M .....................3B: Consult with BioVinc.
Schwarz, Edward M ...............Disclosed no conflict of interest.

Schwarzkopf, Ran .....................1: Smith and Nephew, 3B: Smith and Nephew, 4: Gauss Surgical, PSI, 5: Smith and Nephew, Intelijoint, 8: Arthroplasty Today, Journal of Arthroplasty, 9: AAHKS.


Schweiger, Cameron ...............Disclosed no conflict of interest.

Schwer, Jonas ...............Disclosed no conflict of interest.


Schwitalle, Maik ...............Disclosed no conflict of interest.

Scigliano, Noah M ...............Disclosed no conflict of interest.

Scott, Devon M ..........Disclosed no conflict of interest.

Scott, Elizabeth J ..........Disclosed no conflict of interest.

Scott, Frank ...............Disclosed no conflict of interest.

Scott, Mike ...............Disclosed no conflict of interest.


Scuderi, Giles ...............Disclosed no conflict of interest.

Scuderi, Matthew G ...............Disclosed no conflict of interest.

Sculco, Peter .....................3B: DePuy Synthe, Intelijoint Surgical, Zimmer, Lima Corporate, EOS Imaging, 4: Parvizi Surgical Innovation, Intelijoint Surgical.

Sculco, Peter ...............Disclosed no conflict of interest.


Scull, Grant ...............Disclosed no conflict of interest.
Scull, Grant M .......................... Disclosed no conflict of interest.
Seabaugh, Kathryn A .................. Disclosed no conflict of interest.
Sears, Chandler ......................... Disclosed no conflict of interest.
Sebastian, Aimy ......................... Disclosed no conflict of interest.
Sebastian, Sujeesh ...................... Disclosed no conflict of interest.
Sebastian, Talia .......................... Disclosed no conflict of interest.
Sebastiani, Romano ..................... Disclosed no conflict of interest.
Sebra, Robert ............................ Disclosed no conflict of interest.
Secerovic, Amra ......................... Disclosed no conflict of interest.
Secor, Erica ............................... Disclosed no conflict of interest.
Sedlacek, Abigail L ..................... Disclosed no conflict of interest.
Seeley, Mark .............................. 3B: Orthopediatrics, 7A: Orthopediatrics.
Seetharam, Abhijit ...................... Disclosed no conflict of interest.
Sefko, Julianne A ......................... Disclosed no conflict of interest.
Segal, Kathryn R ......................... Disclosed no conflict of interest.
Segil, Neil ............................... Disclosed no conflict of interest.
Seguin, Bernard ......................... Disclosed no conflict of interest.
Seide, Ketsia ............................. Disclosed no conflict of interest.
Seiden, Emily E ......................... Disclosed no conflict of interest.
Seifret, Alan ............................. Disclosed no conflict of interest.
Seim, Howard ............................ Disclosed no conflict of interest.
Seitz, Amee L ............................ 8: JOSPT Editorial Board Member, 9: ASSET Board Member; AOPT Research Chair.
Seitz, Amee L ......................... 8: JOSPT Editorial Board, 9: ASSET Board Member, AOPT Research Chair.
Seitz, Andreas .......................... Disclosed no conflict of interest.
Seitz, Andreas M ......................... Disclosed no conflict of interest.
Sekar, Amita ............................. Disclosed no conflict of interest.
Sekihata, Hiroshi ....................... Disclosed no conflict of interest.
Sekiya, Ichiro .......................... Disclosed no conflict of interest.
Seliktar, Dror .......................... Disclosed no conflict of interest.
Selim, Omar ........................................Disclosed no conflict of interest.
Selim, Omar A ........................................Disclosed no conflict of interest.
Sell, Scott ........................................Disclosed no conflict of interest.
Selvam, Shanmugam ..........................3A: Nextcure.
Semler, Eric ........................................Disclosed no conflict of interest.
Senga, Yoshiyuki ..............................Disclosed no conflict of interest.
Sensini, Alberto ...............................Disclosed no conflict of interest.
Senter, Carlin .......................................Disclosed no conflict of interest.
Senthilkumar, Sureshkumar ...........Disclosed no conflict of interest.
Seo, Bo Ri ........................................Disclosed no conflict of interest.
Seo, Hojoon ........................................Disclosed no conflict of interest.
Seo, Jeonghyeon ...............................Disclosed no conflict of interest.
Seo, Justin ........................................Disclosed no conflict of interest.
Seok, Moon Chul ........................................Disclosed no conflict of interest.
Sepulveda, Diana E .......................Disclosed no conflict of interest.
Sequeira, Sean B ........................................Disclosed no conflict of interest.
Sequeira, Sean B ..................3A: Acumed.
Serra, Tiziano ........................................Disclosed no conflict of interest.
Sethi, Dalip ........................................Disclosed no conflict of interest.
Setliff, Joshua ........................................Disclosed no conflict of interest.
Setliff, Joshua C ..................Disclosed no conflict of interest.
Setliff, Joshua Charles ..................Disclosed no conflict of interest.
Setoyama, Yu ........................................Disclosed no conflict of interest.
Setton, Lori ..........................4: Cytex Therapeutics, PhaseBio Pharmaceuticals.
Setton, Lori A ........................................Disclosed no conflict of interest.
Setton, Lori A ..........................4: Cytex Therapeutics, PhaseBio Pharmaceuticals.
Seykora, Andrew W ..................3A: Acumed.
Seymore, Kayla ........................................Disclosed no conflict of interest.
Seymore, Kayla D ..................Disclosed no conflict of interest.

Shabarish, Shrutha Keerthi ....... Disclosed no conflict of interest.


Shah, Anup............................ 3B: Arthrex Inc.

Shah, Harsh N ......................... Disclosed no conflict of interest.

Shah, Hetal S ......................... Disclosed no conflict of interest.

Shah, Roshan .......................... Disclosed no conflict of interest.


Shah, Vatsal ............................ Disclosed no conflict of interest.

Shah, Veeraj ............................ Disclosed no conflict of interest.

Shaikh, Siraj ........................... Disclosed no conflict of interest.

Shammas, Helen ........................ Disclosed no conflict of interest.

Shamritsky, David ..................... Disclosed no conflict of interest.

Shams, Kameron ........................ Disclosed no conflict of interest.

Shang, Jiangyinzi ..................... Disclosed no conflict of interest.

Shannon, Michael ..................... Disclosed no conflict of interest.

Shannon, Michael F ................... Disclosed no conflict of interest.

Shao, Pei-Lin ........................... Disclosed no conflict of interest.

Shao, Pei-Ling .......................... Disclosed no conflict of interest.

Sharma, Ashish Ranjan ................ Disclosed no conflict of interest.

Sharma, Blanka ......................... 7A: Blanka Sharma has financial relationships with 42 Bio, Inc. and Direct Biologics, Inc.

Sharma, Blanka ......................... 7A: 42 Bio, Inc., Direct Biologics, Inc.

Sharma, Jhanvi ......................... Disclosed no conflict of interest.

Sharma, Ratna ......................... Disclosed no conflict of interest.

Sharp, Emily E .......................... Disclosed no conflict of interest.
Shasavarani, Shaya

Shatzel, Joseph J

Shaver, Dylan

Shaver, Joseph C.

Shaw, Jeremy

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Shaw, Jeremy D

Shaw, Kylie G

Shaw, Sharon

Shay-Winkler, Kritton

Shea, Jill

Shea, Kevin G

Shearer, Jordan

Sheehy, Eamon J

Shefelbine, Sandra

Shelburne, Kevin

Shelburne, Kevin B

Shelburne, Kevin B

Shelest, Oksana

Shen, Bo

Shen, Hua

Shen, Huaishuang

Shen, Jie

Shen, Karen C

Shen, Leyao

Shen, Nian

Shen, Oscar Y

Shen, Po-Chih

Sheng, Kai
Shenoy, Aarti ........................... Disclosed no conflict of interest.
Shenoy, Sreekala ....................... Disclosed no conflict of interest.
Shephard, Leah .......................... Disclosed no conflict of interest.
Sherlock, Ben ............................. Disclosed no conflict of interest.
Sherman, Alain ........................... Disclosed no conflict of interest.
Sherman, Seth ............................. Disclosed no conflict of interest.
Sherman, Seth L .......................... Disclosed no conflict of interest.
Sherman, William ....................... Disclosed no conflict of interest.
Sheth, Mihir .............................. Disclosed no conflict of interest.
Shetye, Snehal S ........................ Disclosed no conflict of interest.
Sheu, Ming-Thau ......................... Disclosed no conflict of interest.
Sheyn, Dmitriy ........................... Disclosed no conflict of interest.
Sheyn, Julia ............................... Disclosed no conflict of interest.
Shi, Aaron ............................... Disclosed no conflict of interest.
Shi, Brendan .............................. Disclosed no conflict of interest.
Shi, Liu .................................. Disclosed no conflict of interest.
Shi, Tong ................................. Disclosed no conflict of interest.
Shi, Vivian ............................... Disclosed no conflict of interest.
Shi, Wen .................................. Disclosed no conflict of interest.
Shi, Zhibin ............................... Disclosed no conflict of interest.
Shibata, Mao .............................. Disclosed no conflict of interest.
Shichman, Ittai ........................... Disclosed no conflict of interest.
Shields, John ............................ 3B: Smith and Nephew, 5: Smith and Nephew.
Shih, Yuru .................................. Disclosed no conflict of interest.
Shikanov, Ariella ........................ Disclosed no conflict of interest.
Shillabeer, Dionne ....................... Disclosed no conflict of interest.
Shim, In Kyong ........................... Disclosed no conflict of interest.
Shimamura, Yasunori .................... Disclosed no conflict of interest.
Shimizu, Hirokazu ....................... Disclosed no conflict of interest.
Shimizu, Michelle ....................... Disclosed no conflict of interest.
Shimizu, Michelle R ..................Disclosed no conflict of interest.
Shimizu, Michelle R ..................Disclosed no conflict of interest.
Shimizu, Noriyuki .....................Disclosed no conflict of interest.
Shimizu, Takaki .......................Disclosed no conflict of interest.
Shimizu, Tomohiro ....................Disclosed no conflict of interest.
Shimizu, Yuichi ........................Disclosed no conflict of interest.
Shimizu, Yukiyo ........................Disclosed no conflict of interest.
Shimmin, Andrew .....................1: Corin, MatOrtho, 3B: Corin, MatOrtho, 3C: 360 Med Care, 4: Corin.
Shimoe, Takashi .......................Disclosed no conflict of interest.
Shimoi, Tatsunori .....................Disclosed no conflict of interest.
Shimoto, Takeshi ......................Disclosed no conflict of interest.
Shin, Alexander ......................Disclosed no conflict of interest.
Shin, Alexander Y ....................Disclosed no conflict of interest.
Shin, Beomssoo .......................Disclosed no conflict of interest.
Shin, Caleb ............................Disclosed no conflict of interest.
Shin, David ............................Disclosed no conflict of interest.
Shin, John H. ..........................Disclosed no conflict of interest.
Shin, Sang-Jin .........................Disclosed no conflict of interest.
Shin, Takaei ...........................Disclosed no conflict of interest.
Shinohara, Issei .......................Disclosed no conflict of interest.
Shiota, Junki ...........................Disclosed no conflict of interest.
Shirwaiker, Rohan ....................Disclosed no conflict of interest.
Shiwaku, Kosuke ......................Disclosed no conflict of interest.
Shkhyan, Ruzanna ....................Disclosed no conflict of interest.
Shoemaker, Joseph ...................Disclosed no conflict of interest.
Shore, Benjamin J ....................Disclosed no conflict of interest.
Shore, Eileen .........................Disclosed no conflict of interest.
Shore, Eileen M. ......................Disclosed no conflict of interest.
Short, Walter H .......................Disclosed no conflict of interest.
Shreyan, Majumdar ...................Disclosed no conflict of interest.
Shringapure, Saloni .................. *Disclosed no conflict of interest.*
Shringarpure, Saloni .................. *Disclosed no conflict of interest.*
Shu, Kobayashi .................. *Disclosed no conflict of interest.*
Shu, Ye .......................... *Disclosed no conflict of interest.*
Shuda, Jamie.................. *Disclosed no conflict of interest.*
Shue, Jennifer .................. *Disclosed no conflict of interest.*
Shu, Ye .......................... *Disclosed no conflict of interest.*
Shunda, Jamie.................. *Disclosed no conflict of interest.*
Shuichi, Mizuno .................. *Disclosed no conflict of interest.*
Shukla, Sanjai.................. *Disclosed no conflict of interest.*
Shull, Peter B .................. *Disclosed no conflict of interest.*
Shultz, Sandra J .................. *Disclosed no conflict of interest.*
Shuster, John .................. *Disclosed no conflict of interest.*
Shuster, John T .................. *Disclosed no conflict of interest.*
Shutt, Molly .......................... 3A: RevBio, Inc.
Shyu, Peter .................. *Disclosed no conflict of interest.*
Shyu, Peter T .................. *Disclosed no conflict of interest.*
Shyu, Peter T .................. *Disclosed no conflict of interest.*
Siciliano, Carly .................. *Disclosed no conflict of interest.*
Siddique, Ateeque .................. *Disclosed no conflict of interest.*
Siegmund, Thomas .................. *Disclosed no conflict of interest.*
Sigurdsson, Haraldur B ............. *Disclosed no conflict of interest.*
Sikder, Prabaha .................. *Disclosed no conflict of interest.*
Sikes, Katie .................. *Disclosed no conflict of interest.*
Silbernagel, Karin M .................. *Disclosed no conflict of interest.*
Silbernagel, Karin M G .................. *Disclosed no conflict of interest.*
Silva, Matthew .......................... 8: JOR, Bone, CTI.
Silva, Matthew .................. *Disclosed no conflict of interest.*
Silva, Matthew .......................... 9: JOR Editorial Board, Bone CTI, ORS Board of Directors.
Silva, Matthew J .......................... 8: Editorial Board: JOR, Bone, CTI.
Silvestros, Pavlos .................. *Disclosed no conflict of interest.*
Simiele, David .................. *Disclosed no conflict of interest.*
Simington, Jacquelyn .......................... Disclosed no conflict of interest.
Simister, Sam .................................. Disclosed no conflict of interest.
Simkin, Jennifer ............................... Disclosed no conflict of interest.
Simon, Peter .................................... 5: CoreLink, Pressio, Inc.
Simone, Brittany A. ............................ Disclosed no conflict of interest.
Simpson, Hamish ............................... Disclosed no conflict of interest.
Simpson, Stefanie J. .......................... Disclosed no conflict of interest.
Sin, Ashley .......................... Disclosed no conflict of interest.
Sinder, Benjamin ............................... Disclosed no conflict of interest.
Singer, Jacob .......................... Disclosed no conflict of interest.
Singer, Ronald ............................... Disclosed no conflict of interest.
Singh, Amanveer ............................. Disclosed no conflict of interest.
Singh, Anita .......................... Disclosed no conflict of interest.
Singh, Anshu .......................... Disclosed no conflict of interest.
Singh, Gurpreet .................................. 3A: NuVasive.
Singh, Harjeev ............................... Disclosed no conflict of interest.
Singh, Harsev ............................... Disclosed no conflict of interest.
Singh, Mallika ............................... Disclosed no conflict of interest.
Singh, Prerana ............................... Disclosed no conflict of interest.
singh, Purva .......................... Disclosed no conflict of interest.
Singh, Supriya ............................... Disclosed no conflict of interest.
Singh, Vijender ............................... Disclosed no conflict of interest.
Sink, Ernest .......................... Disclosed no conflict of interest.
Sinn, Anthony L ............................... Disclosed no conflict of interest.
Sipek, Kirsten ............................... Disclosed no conflict of interest.
Sipes, Griffin C .............................. Disclosed no conflict of interest.
Sipola, Anniina ............................... Disclosed no conflict of interest.
Sise, CV .......................... Disclosed no conflict of interest.
Siso, Deniz .......................... Disclosed no conflict of interest.
Sivasundaram, Lakshmanan .......................... Disclosed no conflict of interest.
Siverino, Claudia .................. Disclosed no conflict of interest.
Skarda, Emily .................. Disclosed no conflict of interest.
Skedros, John G. .................. Disclosed no conflict of interest.
Skeith, Leslie .................. Disclosed no conflict of interest.
Skelley, Nathan .................. Disclosed no conflict of interest.
Skelley, Nathan Wm. ................. Disclosed no conflict of interest.
Skelton, Anne .................. Disclosed no conflict of interest.
Skubik-Peplaski, Camille ........... Disclosed no conflict of interest.
Slater, Christopher .................. Disclosed no conflict of interest.
Slatter, Shadera .................. Disclosed no conflict of interest.
Slobogean, Gerard .................. 9: OTA.
Sloper, Daniel .................. Disclosed no conflict of interest.
Smeeton, Joanna .................. Disclosed no conflict of interest.
Smit, Kevin .................. Disclosed no conflict of interest.
Smith, Andy .................. Disclosed no conflict of interest.
Smith, Andy K. ................. Disclosed no conflict of interest.
Smith, Anna N. .................. Disclosed no conflict of interest.
Smith, Carly .................. Disclosed no conflict of interest.
Smith, Carly J .................. Disclosed no conflict of interest.
Smith, Clinton .................. Disclosed no conflict of interest.
Smith, Colin R .................. Disclosed no conflict of interest.
Smith, Hannah M .................. Disclosed no conflict of interest.
Smith, Harvey .................. Disclosed no conflict of interest.
Smith, Harvey E .................. Disclosed no conflict of interest.
Smith, Kyra .................. Disclosed no conflict of interest.
Smith, Kyra W.Y .................. Disclosed no conflict of interest.


Smith, Langan S ....................... Disclosed no conflict of interest.


Smith, Nolan S ....................... Disclosed no conflict of interest.

Smith, Simeon .......................... Disclosed no conflict of interest.

Smith, Tyler .......................... Disclosed no conflict of interest.

Smitheman, Hayley .................... Disclosed no conflict of interest.

Smitheman, Hayley Powell ......... Disclosed no conflict of interest.

Smoak, Jason .......................... Disclosed no conflict of interest.

Smolev, Emma .......................... Disclosed no conflict of interest.


Snedeker, Jess ....................... 1: Karl Storz Endoscopy GmbH, ZuriMED Technologies AG, 3C: Octapharma AG, Novartis AG, 4: ZuriMED Technologies AG, 9: ZuriMED Technologies AG.


Snider, J. Caleb ...................... Disclosed no conflict of interest.

Snuggs, Joseph ...................... Disclosed no conflict of interest.

Snyder, Brian .......................... 3B: Orthopediatrics.

Snyder, Brian ....................... Disclosed no conflict of interest.

Snyder, Brian D ...................... Disclosed no conflict of interest.

SOKHI, UPNEET .................... 3A: Hospital for Special Surgery, Weill Cornell Medical College.

Solitro, Giovanni ................... Disclosed no conflict of interest.

Solitro, Giovanni F ................ Disclosed no conflict of interest.
Solomon, Lucian Disclosed no conflict of interest.
Soltanihafshejani, Navid Disclosed no conflict of interest.
Soman, Pranav 5: 3D Microfluidics, LLC.
Somerville, Lyndsay Disclosed no conflict of interest.
Son, Yang 3A: Zimmer Biomet.
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Sonekatsu, Mayumi Disclosed no conflict of interest.
Song, Amy Disclosed no conflict of interest.
Song, Bowen Disclosed no conflict of interest.
Song, Ke Disclosed no conflict of interest.
Song, Lee Disclosed no conflict of interest.
Song, Michelle Disclosed no conflict of interest.
Song, Wei Disclosed no conflict of interest.
Soo, Chia 9: C.S. is founder and/or past board member of Bone Biologics Inc./Bone Biologics Corp., who sublicense Nell-1 patents from the UC Regents, who also hold equity in the company.
Sood, Anshum Disclosed no conflict of interest.
Sood, Anshum
Sorensen, Carter Disclosed no conflict of interest.
Sosa, Branden Disclosed no conflict of interest.
Soslowsky, Lou Disclosed no conflict of interest.
Soslowsky, Lou J Disclosed no conflict of interest.
Soslowsky, Lou J. Disclosed no conflict of interest.
sotozono, yasutaka Disclosed no conflict of interest.
Sottosanti, J. Scott Disclosed no conflict of interest.
South, Sanique M Disclosed no conflict of interest.
Souza, Richard B Disclosed no conflict of interest.
Sowa, Gwendolyn Disclosed no conflict of interest.
Spack, Katherine A Disclosed no conflict of interest.
Spack, Katherine A.
Spaeter, Thomas Disclosed no conflict of interest.
Spagnoli, Anna Disclosed no conflict of interest.
Spang, Jeffrey T Disclosed no conflict of interest.
Spangenberg, Gregory Disclosed no conflict of interest.
Spangenberg, Gregory W Disclosed no conflict of interest.
Spence, Dominique B Disclosed no conflict of interest.
Spiker, Andrea M Disclosed no conflict of interest.
Spiller, Kassandra V Disclosed no conflict of interest.
Spindler, Kurt 1: OBERD, 2: DJO, 3B: Emory DSMB, NFL, Novopeds, 9: AAOS, American Orthopaedic Society for Sports Medicine, ORS.
Spinelli, Sarah Disclosed no conflict of interest.
Spirig, José Miguel Disclosed no conflict of interest.
Sprague, Andrew L Disclosed no conflict of interest.
Sprague, Andrew L Disclosed no conflict of interest.
Sprague, Sheila Disclosed no conflict of interest.
Spray, David Disclosed no conflict of interest.
Sprenkle, Trenton P Disclosed no conflict of interest.
Springstead, James Disclosed no conflict of interest.
Spritzer, Charles Disclosed no conflict of interest.
Spritzer, Charles E Disclosed no conflict of interest.
Squire, Matthew 3B: Heraeus Medical, 7A: Zimmer Biomet.
Squires, Mathieu D Disclosed no conflict of interest.
Sriram, Varun Disclosed no conflict of interest.
Sroga, Grazyna E Disclosed no conflict of interest.
Stake, Ingrid K Disclosed no conflict of interest.
Stake, Ingrid K 6: Arthrex Inc.
Stange, Richard Disclosed no conflict of interest.


Stannard, James P ......................................3B: Arthrex, DePuy, Orthopedic Designs N. America, Smith and Nephew, 5: NIH, DOD, Arthrex, 6: Thieme, 7B: Thieme, 8: J of Knee Surgery, 9: AOA, AO Foundation, AO N. America, Mid-America OA.

Stans, Britta ................................................Disclosed no conflict of interest.

Stapley, Sarah .............................................Disclosed no conflict of interest.

Statchen, Thomas ........................................Disclosed no conflict of interest.

Statum, Sheronda .........................................Disclosed no conflict of interest.

Staub, Jacob ................................................Disclosed no conflict of interest.

Stavenschi, Elena ........................................Disclosed no conflict of interest.

Stebral, Hannah ..........................................Disclosed no conflict of interest.

Stebral, Hannah J .........................................Disclosed no conflict of interest.

Steele, Lucas ..............................................Disclosed no conflict of interest.

Stefani, Laurel .............................................Disclosed no conflict of interest.

Stefanik, Joshua ..........................................Disclosed no conflict of interest.

Stefanovic, Tina ..........................................Disclosed no conflict of interest.

Stefko, Joseph M .........................................Disclosed no conflict of interest.

Stegemann, Andrew P ..................................Disclosed no conflict of interest.

Stein, Alexandra ..........................................Disclosed no conflict of interest.

Steineman, Brett ..........................................Disclosed no conflict of interest.

Stenroth, Lauri ..........................................Disclosed no conflict of interest.

Stepanovich, Matthew ..................................Disclosed no conflict of interest.

Stephan, Christopher ...................................Disclosed no conflict of interest.

Stephan, Stephen .........................................Disclosed no conflict of interest.

Stephen, Samuel .........................................Disclosed no conflict of interest.
Stephen, Samuel J. Disclosed no conflict of interest.
Steppacher, Simon Disclosed no conflict of interest.
Sterrett, John D Disclosed no conflict of interest.
Stevens, Kathryn J 5: General Electric.
Stevens, Patrick Disclosed no conflict of interest.
Stevenson, Christina M Disclosed no conflict of interest.
Steward, Oswald Disclosed no conflict of interest.
Stewart, Amanda Disclosed no conflict of interest.
Stewart, Elizabeth Disclosed no conflict of interest.
Stewart, Holly Disclosed no conflict of interest.
Stewart, Holly L Disclosed no conflict of interest.
Stewart, Matthew Disclosed no conflict of interest.
Steyl, Samantha Disclosed no conflict of interest.
Stickley, Megan Disclosed no conflict of interest.
Stinson, Spencer Disclosed no conflict of interest.
Stockham, Elise Disclosed no conflict of interest.
Stocks, Omar G Disclosed no conflict of interest.
Stoddart, Martin J Disclosed no conflict of interest.
Stoeckl, Brendan Disclosed no conflict of interest.
Stojceski, Filip Disclosed no conflict of interest.
Stoker, Aaron 1: MTF, Arthrex, MTF.
Stoker, Aaron M 1: Musculoskeletal Transplant Foundation, MTF.
Stoker, Aaron M 1: Musculoskeletal Transplant Foundation.
Stoker, Aaron M Disclosed no conflict of interest.
Stokes, Hannah Disclosed no conflict of interest.
Stokes, Hannah L Disclosed no conflict of interest.
Stoltz, Michael J Disclosed no conflict of interest.
Stone, Austin ..................  Disclosed no conflict of interest.
Stone, Ben ......................  Disclosed no conflict of interest.
Stone, Benjamin ...............  Disclosed no conflict of interest.
Stone, Benjamin K. ..........  Disclosed no conflict of interest.
Stone, Kevin R .................  Disclosed no conflict of interest.
Stone, Laura ...................  Disclosed no conflict of interest.
Stone, Laura S .................  Disclosed no conflict of interest.
Stoneback, Jason ..............  Disclosed no conflict of interest.
Stoneback, Jason W ..........  Disclosed no conflict of interest.
Stover, Michael ...............  Disclosed no conflict of interest.
Stowe, Emma J ..................  Disclosed no conflict of interest.
St-Pierre, Jean-Philippe ......  Disclosed no conflict of interest.
Straatman, Lauren ............  Disclosed no conflict of interest.
Strait, Alex ....................  Disclosed no conflict of interest.
Strand, Kathryn ...............  Disclosed no conflict of interest.
Straw, Philip A ..................  Disclosed no conflict of interest.
Streeter, Samuel S ............  Disclosed no conflict of interest.
Striano, Brendan M ............  Disclosed no conflict of interest.
Strickland, Colin D ..........  Disclosed no conflict of interest.
Strong, Jonathan ..............  Disclosed no conflict of interest.
Stucky, Renee ..................  Disclosed no conflict of interest.
Stupp, Samuel ..................  Disclosed no conflict of interest.
Stupp, Samuel I ...............  Disclosed no conflict of interest.
Sturdy, Cassandra ..........  Disclosed no conflict of interest.
Sturz, Geraldine D ..........  Disclosed no conflict of interest.
Su, Charles .....................  Disclosed no conflict of interest.


Su, Eileen Y ..................................Disclosed no conflict of interest.

Su, Favian ..................................Disclosed no conflict of interest.

Su, Jin ..................................Disclosed no conflict of interest.

Su, Kai-Li ..................................Disclosed no conflict of interest.

Su, Kai-Li ..................................Disclosed no conflict of interest.

Su, Eileen Y ..................................Disclosed no conflict of interest.

Subbiah, Ramesh ..................Disclosed no conflict of interest.

Subih, Murad ..........................Disclosed no conflict of interest.

Subih, Murad A ..................Disclosed no conflict of interest.

Subramanian, Anu ..................Disclosed no conflict of interest.

Suchiman, Eka ..................Disclosed no conflict of interest.

Suda, Yoshihito ..................Disclosed no conflict of interest.

Sudo, Akihiro ..................Disclosed no conflict of interest.

Sudo, Akihiro ..................Disclosed no conflict of interest.

Sudo, Hideki ..................Disclosed no conflict of interest.

Sudo, Kazuki ..................Disclosed no conflict of interest.

Sueishi, Takuya ..................Disclosed no conflict of interest.

Sugano, Nobuhiko ..................Disclosed no conflict of interest.

Sugawara, Atsushi ..................Disclosed no conflict of interest.

Sugimoto, Hironori ...............Disclosed no conflict of interest.

Sugimoto, Kazutaka ...............1: DePuy Synthes, 3B: DePuy Synthes.

Sugimura, Natsuki ..................Disclosed no conflict of interest.

Sugino, Tatsuro ..................Disclosed no conflict of interest.

Sugita, Naoki ..................Disclosed no conflict of interest.

Sugiura, Kosuke ..................Disclosed no conflict of interest.

Sugiyama, Osamu ..................Disclosed no conflict of interest.
Suh, Nina
Disclosed no conflict of interest.

Suhaiba, Aisha
Disclosed no conflict of interest.

Suhardi, Vincentius
Disclosed no conflict of interest.

Suhardi, Vincentius J
Disclosed no conflict of interest.

Suhardi, Vincentius Jeremy
Disclosed no conflict of interest.

Sukenari, Tsuyoshi
Disclosed no conflict of interest.

Sukopp, Matthias
Disclosed no conflict of interest.

Suleiman, Linda I
3B: DePuy, A Johnson & Johnson Company.

Sullentrup, Anna
Disclosed no conflict of interest.

Sullentrup, Anna N
Disclosed no conflict of interest.

Sullivan, Anna Lia
Disclosed no conflict of interest.

Sullivan, Thomas
Disclosed no conflict of interest.

Sultana, Jamalia
Disclosed no conflict of interest.

Sumith, Meera
Disclosed no conflict of interest.

Sumughan, Saurav
Disclosed no conflict of interest.

Sun, Changqi
Disclosed no conflict of interest.

Sun, Hui
Disclosed no conflict of interest.

Sun, Jui-Sheng
Disclosed no conflict of interest.

Sun, Lu
3A: ZSFab.

Sun, Mengting
Disclosed no conflict of interest.

Sun, Shuting
3A: BioVinc.

Sun, Yani
Disclosed no conflict of interest.

Sunami, Kuniko
Disclosed no conflict of interest.

Sunamura, Satoko
Disclosed no conflict of interest.

Sundberg, Oskar
Disclosed no conflict of interest.

Sung, Joseph Jao Yiu
Disclosed no conflict of interest.

Supronowicz, Peter R
3A: Peter R Supronowicz.

Suraci, Corey
Disclosed no conflict of interest.

Surowiec, Rachel
Disclosed no conflict of interest.

Suruga, Makoto
Disclosed no conflict of interest.
Sutton, Kamren ................. Disclosed no conflict of interest.
Sutton, Marriah .................. Disclosed no conflict of interest.
Suzuki, Daisuke .................... Disclosed no conflict of interest.
Suzuki, Hisataka ................. Disclosed no conflict of interest.
Suzuki, Sho’ji ........................ Disclosed no conflict of interest.
Suzuki, Shoji ........................ Disclosed no conflict of interest.
Suzuki, Tomoaki .................... Disclosed no conflict of interest.
Suzuki, Tomoto ...................... Disclosed no conflict of interest.
Suzuki, Yuki ........................ Disclosed no conflict of interest.
Svendsen, Clive ..................... Disclosed no conflict of interest.
Svetli Kalistratova, Venina ...... Disclosed no conflict of interest.
Swahn, Hannah .................... Disclosed no conflict of interest.
Swain, Lauren ...................... Disclosed no conflict of interest.
Swami, Nathan .................... Disclosed no conflict of interest.
Swami, Pooja ........................ Disclosed no conflict of interest.
Swan, Glenn ....................... Disclosed no conflict of interest.
Swank, Michael ................... 1: Smith and Nephew, 5: DePuy.
SWARNKAR, GAURAV ................ Disclosed no conflict of interest.
Swift, Sibyl ......................... 3B: cbdMD.
Swindell, Hasani .................. Disclosed no conflict of interest.
Swingle, Kelsey L .................. Disclosed no conflict of interest.
Swink, Isaac ....................... Disclosed no conflict of interest.
Swope, Steve ....................... 3A: DePuy Synthes Joint Reconstruction.
Sykes, Madeline .................. Disclosed no conflict of interest.
Sylvestre, Daniel J ................ Disclosed no conflict of interest.
Synder, Brian D .................... Disclosed no conflict of interest.
Szabo, Emily ....................... 3A: Neuronoff, Inc., 4: Neuronoff, Inc.
Szabo, Nicole ...................... Disclosed no conflict of interest.
Szczesny, Spencer .......................... *Disclosed no conflict of interest.*

Szivek, John ................................. 4: Stryker.

Taboas, Juan M ............................... *Disclosed no conflict of interest.*

tachi, hiroyuki .............................. *Disclosed no conflict of interest.*

TACHIBANA, SHOTARO ....................... *Disclosed no conflict of interest.*

Taft, Carter ................................. *Disclosed no conflict of interest.*

Tafur, Julio Castillo ....................... *Disclosed no conflict of interest.*

Taghlabi, Khaled M ........................ *Disclosed no conflict of interest.*

Tagil, Magnus ............................... 4: Magnus Tagil is stockholder in Moroxite AB, Sweden.

Tagil, Magnus ............................... *Disclosed no conflict of interest.*

Tägil, Magnus ............................... 4: MT owns stocks in a non-listed company Moroxite AB, Sweden.

Tägil, Magnus ............................... 4: MT is stockholder in Moroxite AB, Sweden.

Taguchi, Takashi ............................ *Disclosed no conflict of interest.*

Taha, Mahmoud Reda ....................... *Disclosed no conflict of interest.*

Tahayeri, Anthony .......................... *Disclosed no conflict of interest.*

Tahmasebi Birgani, Zeinab ............... *Disclosed no conflict of interest.*

Tai, Andrew ................................. *Disclosed no conflict of interest.*

Tai, Chia .......................... 6: ITO CO., LTD.

Taiji, Ryo ................................. *Disclosed no conflict of interest.*

Taira, Ethan ............................... *Disclosed no conflict of interest.*

Tajima, Goro ............................... *Disclosed no conflict of interest.*

Tajima, Takafumi ........................... *Disclosed no conflict of interest.*

Tajima, Takuya ............................. *Disclosed no conflict of interest.*

Tajimi, Takahiro .......................... *Disclosed no conflict of interest.*

Takaba, Keishi ............................. *Disclosed no conflict of interest.*

Takada, Ryohei ............................ *Disclosed no conflict of interest.*

Takaesu, Mika .............................. *Disclosed no conflict of interest.*

Takagi, Michiaki .......................... *Disclosed no conflict of interest.*

Takahashi, Daisuke ......................... *Disclosed no conflict of interest.*

Takahashi, Haruna ......................... *Disclosed no conflict of interest.*
Takahashi, Hiroshi ................. Disclosed no conflict of interest.
Takahashi, Hiroyuki ................. 3A: Teijin Nakashima Medical Co., Ltd.
Takahashi, Ikuo ...................... Disclosed no conflict of interest.
Takahashi, Katsunori ............... Disclosed no conflict of interest.
Takahashi, Kenji ..................... Disclosed no conflict of interest.
Takahata, Kei ........................ Disclosed no conflict of interest.
Takahiro, Natsume ................. Disclosed no conflict of interest.
Takao, Tomoka ....................... Disclosed no conflict of interest.
Takarada, Takeshi .................. Disclosed no conflict of interest.
Takase, Kyohei ...................... Disclosed no conflict of interest.
Takashima, Kazuma ................ Disclosed no conflict of interest.
Takasu, Chiharu ..................... Disclosed no conflict of interest.
Takatori, Ryota ..................... Disclosed no conflict of interest.
Takatsuji, Kenta .................... Disclosed no conflict of interest.
Takawira, Catherine ............... Disclosed no conflict of interest.
Takaya, Shogo ....................... Disclosed no conflict of interest.
Takayanagi, Kiyomi ................ Disclosed no conflict of interest.
Takayanagi, Kyomi ................. Disclosed no conflict of interest.
Takayanagi, Satoshi ............... Disclosed no conflict of interest.
Takegami, Norihiko ............... Disclosed no conflict of interest.
Takehiro, Yamamoto ............... Disclosed no conflict of interest.
Takemori, Toshiyuki ............... Disclosed no conflict of interest.
Takemoto, Genta .................... Disclosed no conflict of interest.
Takenaga, Tetsuya .................. Disclosed no conflict of interest.
Takeoka, Yoshiki ................... Disclosed no conflict of interest.
Takeshita, Katsushi ............... Disclosed no conflict of interest.
Taketomi, Shuji ..................... Disclosed no conflict of interest.
Taketomi, Shuji ..................... 9: JOSKAS.
Taketomi, Shuji ..................... 5: Stryker Corp.
Takeuchi, Hisataka ............... Disclosed no conflict of interest.
Takeuchi, Makoto.......Disclosed no conflict of interest.
Takeuchi, Naohide.....Disclosed no conflict of interest.
Takeuchi, Satoshi.....Disclosed no conflict of interest.
Takeura, Nobuaki.....Disclosed no conflict of interest.
Takeyama, Masanobu..Disclosed no conflict of interest.
Takusagawa, Toru......Disclosed no conflict of interest.
Talaski, Grayson Talaski...Disclosed no conflict of interest.
Taleb, Shahnaz.........Disclosed no conflict of interest.
Talentino, Spencer....Disclosed no conflict of interest.
Talhelm, Jacob.......Disclosed no conflict of interest.
Talib, Sumbal.........Disclosed no conflict of interest.
Taluson, Paul.........Disclosed no conflict of interest.
Taluson, Paul G.......Disclosed no conflict of interest.
Tam, Wai Kit..........Disclosed no conflict of interest.
Tamai, Hidenobu......Disclosed no conflict of interest.
Tamaki, Shunsuke.....Disclosed no conflict of interest.
Tamaki, Yasuaki.......Disclosed no conflict of interest.
Tamara, Mengis.......Disclosed no conflict of interest.
Tamburro, Margaret K..Disclosed no conflict of interest.
Tamburro, Margaret K. Disclosed no conflict of interest.
Tan, Ek..................Disclosed no conflict of interest.
Tan, Ek T.................Disclosed no conflict of interest.
Tan, Jiaqi...............Disclosed no conflict of interest.
Tan, Tian...............Disclosed no conflict of interest.
Tan, Xiaohong.........Disclosed no conflict of interest.
Tanaka, Hiroshi........Disclosed no conflict of interest.
Tanaka, Miho.........Disclosed no conflict of interest.
Tanaka, Miho............1: Fuji Film.
Tanaka, Sakae.........Disclosed no conflict of interest.
Tanaka, Shinya..................Disclosed no conflict of interest.
Tanaka, Shuya..................Disclosed no conflict of interest.
Tanaka, Yasuhito..................Disclosed no conflict of interest.
Tanei, Zen-ichi.................Disclosed no conflict of interest.
Tang, Amy........................Disclosed no conflict of interest.
Tang, Liping......................Disclosed no conflict of interest.
Tang, My M.......................Disclosed no conflict of interest.
Tang, My My.....................Disclosed no conflict of interest.
Tang, Nina (Shirley).............Disclosed no conflict of interest.
Tang, Ping........................Disclosed no conflict of interest.
Tang, Ruhang....................1: Agathos.
Tang, Simon......................8: Associate Editor of Osteoarthritis and Cartilage.
Tang, Simon.......................Disclosed no conflict of interest.
Tang, Simon Y.................8: Osteoarthritis and Cartilage Editor.
Tang, Simon Y..................Disclosed no conflict of interest.
Tang, Yunting....................Disclosed no conflict of interest.
Tang, Yunting Melissa........Disclosed no conflict of interest.
Tanguay, Adam P.................Disclosed no conflict of interest.
Taniguchi, Cullen..............Disclosed no conflict of interest.
Taniguchi, Noboru..............Disclosed no conflict of interest.
Tannast, Moritz...............Disclosed no conflict of interest.
Tanska, Petri....................Disclosed no conflict of interest.
Tantone, Ryan..................Disclosed no conflict of interest.
Tao, Litao.......................Disclosed no conflict of interest.
Tarabishi, Albaraa........Disclosed no conflict of interest.
Taraflde, Solaiman........Disclosed no conflict of interest.
Tarakemeh, Armin........Disclosed no conflict of interest.
Tarantino, Roberto........Disclosed no conflict of interest.
Tareen, Naureen .................. Disclosed no conflict of interest.
Tashbib, Eliya ..................... Disclosed no conflict of interest.
Tashiro, Eiji ........................ Disclosed no conflict of interest.
Tashman, Scott ..................... Disclosed no conflict of interest.
Tassey, Jade ....................... Disclosed no conflict of interest.
Tatapudi, Suhas .................... Disclosed no conflict of interest.
Tatara, Alexander M. .............. Disclosed no conflict of interest.
Tateyama, Yui ...................... Disclosed no conflict of interest.
Tatum, Marcus ..................... Disclosed no conflict of interest.
Tatum, Marcus M. .................. Disclosed no conflict of interest.
Tatusko, Megan ................... Disclosed no conflict of interest.
Tavabi, Nazgol ..................... Disclosed no conflict of interest.
Tawackoli, Wafa ................... Disclosed no conflict of interest.
Tawaratsumida, Hiroki .......... Disclosed no conflict of interest.
Taye, Nandaraj .................... Disclosed no conflict of interest.
Taylor, Isaiah T.................. Disclosed no conflict of interest.
Taylor, Kelly ...................... Disclosed no conflict of interest.
Taylor, Levin W .................. Disclosed no conflict of interest.
Taylor, Lilliana M ................ Disclosed no conflict of interest.
Taylor, Mark ...................... Disclosed no conflict of interest.
Taylor, Mark ...................... 5: DePuy Synthes.
Taylor, Mark ...................... 5: Synopsys Inc.
Taylor, Paris E .......................... Disclosed no conflict of interest.
Taylor, Paris E .......................... Disclosed no conflict of interest.
Taylor, Paul ............................. 5: NeuroSpine Foundation who coordinate and manage the patient database receive institutional support: Life Health Care, NuVasive, Signus.
Taylor, Samuel A ........................ 1: Don Joy Orthopedics.
Taylor, Samuel A ........................ Disclosed no conflict of interest.
Taylor, Sarah E .......................... Disclosed no conflict of interest.
Tayne, Samantha ........................ Disclosed no conflict of interest.
Teague, Alexander J ...................... Disclosed no conflict of interest.
Tedesco, Amanda ........................ Disclosed no conflict of interest.
Tedesco, Amanda N ....................... Disclosed no conflict of interest.
Teinturier, Tim D .......................... Disclosed no conflict of interest.
Teissier, Victoria .......................... Disclosed no conflict of interest.
Teixeira, Graciosa ........................ Disclosed no conflict of interest.
Teixeiro, Emma ............................. Disclosed no conflict of interest.
Tekkey, Tara ............................... Disclosed no conflict of interest.
Telfer, Scott ............................... Disclosed no conflict of interest.
Temple-Oberle, Claire .................... Disclosed no conflict of interest.
Templeton, Kimberly ..................... 8: CORR.
Templeton, Kimberly .....................
Templin, Markus ........................... Disclosed no conflict of interest.
Teng, Polly ................................. Disclosed no conflict of interest.
TERADA, Hidenobu ........................ Disclosed no conflict of interest.
Teramoto, Atsushi ........................ Disclosed no conflict of interest.
Terauchi, Masanori ........................ Disclosed no conflict of interest.
Terhune, Elizabeth ........................ Disclosed no conflict of interest.
Terkawi, Alaa ............................... Disclosed no conflict of interest.
Terkawi, M Alaa  
Disclosed no conflict of interest.

Terkawi, Mohamad Alaa  
Disclosed no conflict of interest.

Terragnoli, Flavio  
Disclosed no conflict of interest.

Terrones, Lori  
Disclosed no conflict of interest.

Terschluse, Jordan M  
Disclosed no conflict of interest.

Terukawa, Alaa  
Disclosed no conflict of interest.

Teruo, Okano  
4: CellSeed Inc.

Tessier, Victoria  
Disclosed no conflict of interest.

Tetteh, Abigail  
Disclosed no conflict of interest.

Tevlin, Ruth  
Disclosed no conflict of interest.

Teytelbaum, David E  
Disclosed no conflict of interest.

Tezuka, Fumitake  
Disclosed no conflict of interest.

Tezuka, Taro  
Disclosed no conflict of interest.

Tha, Khin Khin  
Disclosed no conflict of interest.

Thai, Victoria  
Disclosed no conflict of interest.

Thakral, Rishi  
Disclosed no conflict of interest.

Thakur, Shriya Singh  
Disclosed no conflict of interest.

Thaler, Roman  
Disclosed no conflict of interest.

Thampi, Parvathy  
Disclosed no conflict of interest.

Thao, Alexandria K  
Disclosed no conflict of interest.

Thayer, Adriyana  
Disclosed no conflict of interest.

Thelen, Darryl  
Disclosed no conflict of interest.

Thewlis, Dominic  
5: Xalud Therapeutics, Allay Therapeutics.

Thi, Mia  
Disclosed no conflict of interest.

Thiel, Geoffrey Van  
Disclosed no conflict of interest.

Thiessen, Jonathan D  
Disclosed no conflict of interest.

Thirukumaran, Caroline  
2: Honoraria from Brown University, National Institutes of Health, 5: Grants from the National Institutes of Health and the University of Rochester, 8: Section Editor: Current Osteoporosis Reports – Disparities Section.

Thirukumaran, Caroline P  
2: Brown University, National Institutes of Health, 5: National Institutes of Health, University of Rochester, 8: Section Editor: Current Osteoporosis Reports – Disparities Section.
Thomas, Alexander..........................Disclosed no conflict of interest.
Thomas, Dylan..............................Disclosed no conflict of interest.
Thomas, Jeremiah..........................Disclosed no conflict of interest.
Thomas, Joy..................................Disclosed no conflict of interest.
Thomas, Matthew A.......................Disclosed no conflict of interest.
Thomas, Stacey..............................Disclosed no conflict of interest.
Thometz, John...............................Disclosed no conflict of interest.
Thomopoulos, Stavros.....................Disclosed no conflict of interest.
Thomopoulos, Stavros A..................Disclosed no conflict of interest.
Thompson, Amy..............................Disclosed no conflict of interest.
Thompson, Jacob D..........................Disclosed no conflict of interest.
Thompson, Jr., Dominic M..............Disclosed no conflict of interest.
Thompson, Kelly.............................Disclosed no conflict of interest.
Thompson, Matt............................3A: Stryker, 4: Stryker.
Thompson, Matthew.......................Disclosed no conflict of interest.
Thompson, William R......................Disclosed no conflict of interest.
Thomson, Andrew.................................Disclosed no conflict of interest.
Thorne, Tyler...............................Disclosed no conflict of interest.
Thorpe, Steven..........................Disclosed no conflict of interest.

Thurlow, Nat A............................Disclosed no conflict of interest.
Thurner, Philipp J.........................Disclosed no conflict of interest.
Tian, Xinggui..............................Disclosed no conflict of interest.
Tien, Ryan..................................Disclosed no conflict of interest.
Tierney, Peyton.........................Disclosed no conflict of interest.
Tiffany, Aleczandria.....................Disclosed no conflict of interest.
Tilstra-Smith, A. Christine..........Disclosed no conflict of interest.
Tilton, Maryam .........................Disclosed no conflict of interest.
Timmen, Melanie ......................Disclosed no conflict of interest.
Ting, Kang ..............................9: K.T. is the founder and/or past board member of Bone Biologics Inc./Bone Biologics Corp., who sublicense Nell-1 patents from the UC Regents, who also hold equity in the company.
Tinga, Selena ..........................5: OssAbility.
Tinguely, Yann .........................Disclosed no conflict of interest.
Tinsley, Jake ..........................Disclosed no conflict of interest.
Tisano, Breann .........................Disclosed no conflict of interest.
Tiulpin, Aleksei ......................Disclosed no conflict of interest.
Toba, Naoki ............................Disclosed no conflict of interest.
Tobert, Daniel G. .....................Disclosed no conflict of interest.
Tobo, Connor ..........................Disclosed no conflict of interest.
Toci, Gregory R .......................Disclosed no conflict of interest.
Todd, Dwight .........................3A: DePuy Synthes Joint Reconstruction.
Tognato, Riccardo .....................Disclosed no conflict of interest.
Tohka, Jussi ............................Disclosed no conflict of interest.
Tohse, Noritsugu ......................Disclosed no conflict of interest.
Tokarski, Andrew .....................Disclosed no conflict of interest.
Toki, Shunichi .........................Disclosed no conflict of interest.
Tokuhirao, Taiki ......................Disclosed no conflict of interest.
Tokura, Takeo ..........................Disclosed no conflict of interest.
Tom, Cassandra .......................Disclosed no conflict of interest.
Tome, Yasunori .........................Disclosed no conflict of interest.
Tominaga, Hiroyuki ...................Disclosed no conflict of interest.
Tomita, Tetsuya .......................9: Japan College of Rheumatology.
Tomita, Tetsuya .......................Disclosed no conflict of interest.
Tommasini, Steven M ..................Disclosed no conflict of interest.
Tomoaki, Suzuki ......................Disclosed no conflict of interest.
Tomoko, Koshimae ...................Disclosed no conflict of interest.
Tone, Shine ...........................Disclosed no conflict of interest.
Tong, Anh                      Disclosed no conflict of interest.
Tong, Michelle W                Disclosed no conflict of interest.
Tong, Wade (Weidong)            3A: DePuy Synthes.
Tong, Wei                      Disclosed no conflict of interest.
Tong, Xiaole                   Disclosed no conflict of interest.
Tonomura, Hitoshi              Disclosed no conflict of interest.
Topping, Daniel                Disclosed no conflict of interest.
Torabian, Kaveh A              Disclosed no conflict of interest.
Torres Espin, Abel             Disclosed no conflict of interest.
Torrollion, Marine             3A: Blue-Ortho.
Tortorella, Micky D            Disclosed no conflict of interest.
Torzilli, Peter                Disclosed no conflict of interest.
Torzilli, Peter A              Disclosed no conflict of interest.
Tosi, Laura                    Disclosed no conflict of interest.
Toth, Ferenc                   Disclosed no conflict of interest.
Tower, Robert                  Disclosed no conflict of interest.
Tower, Robert J                Disclosed no conflict of interest.
Toya, Masakazu                 Disclosed no conflict of interest.
Töyräs, Juha                   Disclosed no conflict of interest.
Tracey, Olivia                 Disclosed no conflict of interest.
Tran, Daniel                   3A: Ensign Pharmaceutical, Inc.
Tran, Khoa S                   Disclosed no conflict of interest.
Tran, Richard                  3A: Acuitive Technologies Inc.
Tran, Son                      Disclosed no conflict of interest.
Travascio, Francesco           Disclosed no conflict of interest.
Travers, Nathan                Disclosed no conflict of interest.
Traweger, Andreas              Disclosed no conflict of interest.
Trbojevich, Raul               Disclosed no conflict of interest.
Trenkwalder, Katharina .................. Disclosed no conflict of interest.
Trent, Jonathan .......................... Disclosed no conflict of interest.
Trevino, Noe ............................... Disclosed no conflict of interest.
Trikha, Vivek ............................... Disclosed no conflict of interest.
Triplett, Ashley .......................... Disclosed no conflict of interest.
Trivedi, Hari ............................... Disclosed no conflict of interest.
Trivedi, Jay ................................. Disclosed no conflict of interest.
Trofa, David P .................. Disclosed no conflict of interest.
Troop, Leia D .............................. Disclosed no conflict of interest.
Trouillot, Colette E. .................. Disclosed no conflict of interest.
Trout, Sally ............................... Disclosed no conflict of interest.
Trout, Sally M .............................. Disclosed no conflict of interest.
Trout, Sally May .......................... Disclosed no conflict of interest.
Troy, Karen L .............................. Disclosed no conflict of interest.
Trujanovic, Robert ........................ Disclosed no conflict of interest.
Truong, Huy ............................... Disclosed no conflict of interest.
Tryfonidou, Marianna .................. Disclosed no conflict of interest.
Tryfonidou, Marianna A .................. Disclosed no conflict of interest.
Tsai, Ariane ............................... Disclosed no conflict of interest.
Tsai, Tsung-Yuan .................. 4: TAOIMAGE Co., LTD.
Tsai, Tsung-Yuan .................. Disclosed no conflict of interest.
Tsai, Yu Hsin .............................. Disclosed no conflict of interest.
Tse, Shannon .............................. Disclosed no conflict of interest.
Tsinman, Tonia .................. Disclosed no conflict of interest.
Tsinman, Tonia K .................. Disclosed no conflict of interest.
Tsubosaka, Masanori .................. Disclosed no conflict of interest.
Tsujii, Kentaro .................. Disclosed no conflict of interest.
Tsujii, Kunikazu .................. Disclosed no conflict of interest.
Tsujii, Akira .................. Disclosed no conflict of interest.
Tsujimoto, Ryu .................. Disclosed no conflict of interest.
Disclosed no conflict of interest.
Uchida, Taisuke ......................Disclosed no conflict of interest.
Uchihara, Yoshinobu ..................Disclosed no conflict of interest.
Uddin, Sardar .........................Disclosed no conflict of interest.
Uehara, Ryota ..........................Disclosed no conflict of interest.
Uehara, Takenori .......................Disclosed no conflict of interest.
Ueki, Yasuyoshi .......................Disclosed no conflict of interest.
Uematsu, Takuya ......................Disclosed no conflict of interest.
Uemura, Keisuke .......................Disclosed no conflict of interest.
Ueno, Masaya ..........................Disclosed no conflict of interest.
Ugarte, Annalisa P ....................Disclosed no conflict of interest.
Uhl, Tim .................................Disclosed no conflict of interest.
Ukeba, Daisuke .........................Disclosed no conflict of interest.
Ukishiro, Kengo .......................Disclosed no conflict of interest.
Unal, Mustafa ..........................Disclosed no conflict of interest.
Ungurean jr., Victor ..................Disclosed no conflict of interest.
Ungurean, Victor .....................Disclosed no conflict of interest.
Unno, Aiko .............................Disclosed no conflict of interest.
Uppstrom, Tyler J .....................Disclosed no conflict of interest.
Uppuganti, Sasidhar ..................Disclosed no conflict of interest.
Ura, Katsuro ..........................Disclosed no conflict of interest.
Ural, Ani ...............................Disclosed no conflict of interest.
Urish, Kenneth .......................5: Smith & Nephew.
Urish, Kenneth .......................5: Smith & Nephew.
Urquhart, Jennifer ...................Disclosed no conflict of interest.
Urvoy, Manuel ........................3A: Imascap.
Usami, Yuna ...........................Disclosed no conflict of interest.
Utagawa, Kurando ....................Disclosed no conflict of interest.
Uyekawa, Scott ....................................3A: NuVasive.
Uyekawa, Scott K ....................................3A: NuVasive, 4: NuVasive.
Uzu, Megumi ....................................Disclosed no conflict of interest.
Uzzo, Connor ....................................Disclosed no conflict of interest.
Väänänen, Sami P ....................................Disclosed no conflict of interest.

Vaccaro, Alexander .................................1: Aesculap, atlas spine, globus, medtronic, spinewave, stryker,
advanced spinal intellectual properties, avaz surgical, AVKN patient driven care, bonovo orthopaedics,
computational biodynamics., 3B: Atlas spine, depuy, gerson lehrman group, globus, innovative surgical
design, medtronic, nuvasive, spinewave, stryker, 4: Advanced spinal intellectual properties, avaz
surgical, AVKN patient driven care, bonovo orthopaedics, computational biodynamics, 5: Elsevier,
jaypee, medtronic, taylor Fancis/Hodder & Stoughton, thieme, AO spine, 8: AO Spine, 9: American
academy of orthopaedic surgery, sentryx.

Vaccaro, Alexander R ................................Disclosed no conflict of interest.


Vadivel, Jagasivamani ................................Disclosed no conflict of interest.

Vahidi, Ghazal ....................................Disclosed no conflict of interest.

Vaidya, Rachana ....................................Disclosed no conflict of interest.

Vaidya, Rachana S ....................................Disclosed no conflict of interest.

Vail, Thomas ....................................Disclosed no conflict of interest.

Vail, Thomas P ....................................Disclosed no conflict of interest.

Vaish, Bhavya ....................................Disclosed no conflict of interest.

Vaishali, Ravikumar ................................Disclosed no conflict of interest.

Vakili, Samira ....................................Disclosed no conflict of interest.

Valcourt, Randy ....................................Disclosed no conflict of interest.


Valdevit, Antonio ................................5: Xenix Medical.

Valentino, Alexandra .........................3A: Stryker, 4: Stryker.

Valkealahti, Maarit ..........................Disclosed no conflict of interest.

Vallier, Heather A ..........................Disclosed no conflict of interest.

van Arkel, Richard ..........................Disclosed no conflict of interest.

Van Citters, Douglas W ..................3B: Johnson and Johnson, 5: Medacta, RevBio, DePuty Synthes Joint
Reconstruction, ConforMIS, Total Joint Orthopedics.

van de Groes, Sebastiaan A.W. ........ Disclosed no conflict of interest.
van der Heide, Daphne.........*Disclosed no conflict of interest.*
van der Meulen, Marjolein ......*Disclosed no conflict of interest.*
van der Meulen, Marjolein C H.*Disclosed no conflict of interest.*
van der Wal, Robert ..............*Disclosed no conflict of interest.*
van Deventer, Leland .............*Disclosed no conflict of interest.*
Van Duyn, Christine .............*Disclosed no conflict of interest.*


*van Griensven, Martijn..........7B: EJMR, 8: EJMR, AOTS, 9: President section research - german society ortho and trauma surgery.*

Van Handel, Ben ..................*Disclosed no conflict of interest.*
Van Klei, McKinley ...............*Disclosed no conflict of interest.*
Van Osch, Gerjo J.V.M. ..........*Disclosed no conflict of interest.*
van Oudenaarden, Alexander ...*Disclosed no conflict of interest.*
Van Rysselberghe, Noelle L ......*Disclosed no conflict of interest.*
van Weeren, René ..................*Disclosed no conflict of interest.*
van Wijnen, Andre ..................*Disclosed no conflict of interest.*
Van Zeeland, Emily M .............*Disclosed no conflict of interest.*
Van, Benjamin ......................*Disclosed no conflict of interest.*
Vancer, Dylan ......................*Disclosed no conflict of interest.*
Vandenbergen, Nicholas ..........*Disclosed no conflict of interest.*
Vander Voort, Wyatt ..............*Disclosed no conflict of interest.*
Vanderby, Ray ......................*Disclosed no conflict of interest.*
Vangeli, Sydney ...................*Disclosed no conflict of interest.*
VanHelmond, Taylor A ..........*Disclosed no conflict of interest.*
Vanlandingham, Michelle ........*Disclosed no conflict of interest.*
Vantucci, Casey ...................*Disclosed no conflict of interest.*
Vap, Alexander ....................*Disclosed no conflict of interest.*
Varela Mattatall, Gabriel ..........Disclosed no conflict of interest.
Varga, Peter ..........................Disclosed no conflict of interest.
Vargas, Diego ..........................Disclosed no conflict of interest.
Varghese, Shyni .......................Disclosed no conflict of interest.
Varner, Amanda J. ....................Disclosed no conflict of interest.
Varthi, Arya G ........................Disclosed no conflict of interest.
Vasconcelos, Belmiro ..................Disclosed no conflict of interest.
Vashishth, Deepak .....................Disclosed no conflict of interest.
Vasireddi, Nikhil ......................Disclosed no conflict of interest.
Vater, Corina ..........................Disclosed no conflict of interest.
Vaughan, Quianna ......................Disclosed no conflict of interest.
Vaughan, Ted J ........................Disclosed no conflict of interest.
Vaughn, Kya ............................Disclosed no conflict of interest.
Vazquez, Louis .........................Disclosed no conflict of interest.
Vazquez, Oscar ........................Disclosed no conflict of interest.
Vega, Sebastian L .....................Disclosed no conflict of interest.
Vega-Soto, Emmanuel ..................Disclosed no conflict of interest.
Vega-Soto, Emmanuel E ...............Disclosed no conflict of interest.
Velasco, Cassandra ...................Disclosed no conflict of interest.
Veneziale, Alyssa N ..................Disclosed no conflict of interest.
Venkatachala Babu, Jantri ......Disclosed no conflict of interest.
Verdonschot, Nico .....................3B: Invibio Ltd.
Verdonschot, Nico .....................Disclosed no conflict of interest.
Verdonschot, Nico .....................3B: Invibio Ltd, Exactech, Inc.
Verdonschot, Nico .....................3B: ExeacTech, Inc.; Invibio Ltd.
Vergara-Anglim, Alexandra ....Disclosed no conflict of interest.
Verlaan, Jorrit-Jan .....................Disclosed no conflict of interest.
Verma, Kamalesh .......................... Disclosed no conflict of interest.

Verma, Nikhil .......................... Disclosed no conflict of interest.


Verma, Rohit .......................... Disclosed no conflict of interest.

Vernengo, Andrea ....................... Disclosed no conflict of interest.

Vessal, Mani .......................... Disclosed no conflict of interest.

Vidal, Armando .......................... 3B: Arthrex, Inc, Gemini Mountain Medical, LLC, Stryker Corporation, Bodycad USA Corp, Smith and Nephew, Inc, Vericel Corporation, Bioventus LLC, Gemini Medical LLC.


Vidt, Meghan .......................... Disclosed no conflict of interest.

Vigdorchik, Johnathan ............... 1: DePuy Synthes, 3B: DePuy Synthes.

Vigdorchik, Jonathan ............... 1: Corin, DePuy, 3B: DePuy, Intellijoint Surg, Stryker, 4: Aware, Corin, Intellijoint Surg, Ortho AI, Polaris, 8: AAHKS, JBJS.

Vijayakumar, Priyadarshini ...... Disclosed no conflict of interest.

Villacis Nunez, Carla N ............... Disclosed no conflict of interest.

Villalba, Jordi .......................... 3B: Smith and Nephew.

Villegas, Alex ....................... Disclosed no conflict of interest.

Vinagolu, Rajasekhar ............... Disclosed no conflict of interest.

Viola, Dan .......................... Disclosed no conflict of interest.

Viola, Randall ....................... 1: Linvatec Corporation, Osteomed, LLC, 3B: Linvatec Corporation, Osteomed, LLC.

Virah Sawmy, Khushnouma ...... Disclosed no conflict of interest.

Viraraghavan, Girish .................. Disclosed no conflict of interest.

Visgauss, Julia ...................... Disclosed no conflict of interest.

Vishwanath, Karan ................... Disclosed no conflict of interest.

Vishwanath, Neel ................... Disclosed no conflict of interest.

Visnes, Håvard ....................... Disclosed no conflict of interest.

Visperas, Anabelle .................. Disclosed no conflict of interest.

Vitienes, Isabela ..................... Disclosed no conflict of interest.
VIVACQUA, THIAGO .................. *Disclosed no conflict of interest.*

Vives, Michael ....................... *Disclosed no conflict of interest.*

Vo, Nam .................................. *Disclosed no conflict of interest.*

Voce, Gianna T.......................... *Disclosed no conflict of interest.*

Vodovotz, Lena ......................... *Disclosed no conflict of interest.*

Vogel, Viola ............................ *Disclosed no conflict of interest.*

Volk, Susan W ............................ *Disclosed no conflict of interest.*

Volk, Victoria .......................... *3B: Ortho Haus, LLC.*

Volk, Victoria ......................... *Disclosed no conflict of interest.*

Volosov, Mark .......................... *Disclosed no conflict of interest.*

von Rechenberg, Brigitte ........... *Disclosed no conflict of interest.*

von Stade, Devin ....................... *Disclosed no conflict of interest.*

Vonck, Caroline E ..................... *Disclosed no conflict of interest.*

Voos, James ............................. *Disclosed no conflict of interest.*

Voos, James ............................. *3B: Arthrex, 5: Arthrex.*

Vopat, Bryan ............................


Vopat, Bryan ............................. *3B: DePuy, 6: Stryker.*

Vopat, Bryan ............................. *Disclosed no conflict of interest.*


Vopat, Lisa .............................. *Disclosed no conflict of interest.*

Vopat, Matthew ......................... *Disclosed no conflict of interest.*

Vopat, Matthew L ...................... *Disclosed no conflict of interest.*

Voronov, Roman ........................ *Disclosed no conflict of interest.*

Vorstenbosch, Joshua ................. *Disclosed no conflict of interest.*

Vosbikian, Michael .................. *Disclosed no conflict of interest.*

Vrana, Kent E .......................... *Disclosed no conflict of interest.*

Vresilovic, Edward ................. *3A: Camber Spine.*

Vu, Elizabeth ......................... *Disclosed no conflict of interest.*
Vu, Elizabeth K ....................... disclosed no conflict of interest.
Vu, Khoa .................................. disclosed no conflict of interest.
Vu, Stephanie .......................... disclosed no conflict of interest.
Vyskocil, Joseph ....................... disclosed no conflict of interest.
Wach, Amanda ......................... disclosed no conflict of interest.
Wach, Arden ............................. disclosed no conflict of interest.
Wachs, Rebecca A ...................... disclosed no conflict of interest.
Wachs, Rebecca A ........................ disclosed no conflict of interest.
Wada, Hiroyuki ......................... disclosed no conflict of interest.
Wada, Keizo ............................. disclosed no conflict of interest.
Wada, Kensuke .......................... disclosed no conflict of interest.
Wagley, Yadav ........................... disclosed no conflict of interest.
Wagner, Andrea ......................... disclosed no conflict of interest.
Wagner, Nicholas ...................... disclosed no conflict of interest.
Wagner, Tarah ........................... disclosed no conflict of interest.
Wahbeh, Jenna M ...................... disclosed no conflict of interest.
Wajda, Benjamin ....................... disclosed no conflict of interest.
Wakabayashi, Hiroki .................. disclosed no conflict of interest.
Wakabayashi, Kenjiro ................. disclosed no conflict of interest.
Walaszek, Michelle .................... disclosed no conflict of interest.
Walch, Gilles ................................ disclosed no conflict of interest.
Walczak, Brian ......................... disclosed no conflict of interest.
Waldman, Stephen ..................... disclosed no conflict of interest.
Waldman, Stephen D ................. disclosed no conflict of interest.
Walgenbach, Ann ...................... disclosed no conflict of interest.
Walk, Remy .............................. disclosed no conflict of interest.
Walk, Remy E ........................... disclosed no conflict of interest.
Walker, Jamison K ..................... disclosed no conflict of interest.
Walker, Lizzie ......................... disclosed no conflict of interest.
Walker, Sarah E ....................... disclosed no conflict of interest.
Walker, Taryn .......................... disclosed no conflict of interest.
Wallace, Joseph .......................... disclosed no conflict of interest.
Wallace, Joseph M .......................... disclosed no conflict of interest.
Walley, Kempland C. .......................... disclosed no conflict of interest.
Walsh, Jeremy .......................... disclosed no conflict of interest.
Walsh, Mack X .......................... disclosed no conflict of interest.
Walsh, William .......................... disclosed no conflict of interest.
Walsh, William .......................... 3B: NuVasive, 5: NuVasive.
Walsh, William R .......................... disclosed no conflict of interest.
Walter, Benjamin .......................... disclosed no conflict of interest.
Walter, William .......................... 1: MatOrtho, 2: Johnson & Johnson, 4: Navbit.
Walter, William L .......................... 1: MatOrtho, 2: Johnson & Johnson, 4: 360 Med Care, Navbit.
Walters, Jhunnelle .......................... disclosed no conflict of interest.
Walterscheid, Zakk .......................... disclosed no conflict of interest.
Walton, Bonnie L .......................... disclosed no conflict of interest.
Walton, David .......................... disclosed no conflict of interest.
Walton, David M .......................... disclosed no conflict of interest.
Walton, Zeke J .......................... disclosed no conflict of interest.
Waltz, Robert .......................... disclosed no conflict of interest.
Waltz, Robert A .......................... 5: Arthrex, Smith and Nephew.
Wan, Derrick C .......................... disclosed no conflict of interest.
Wan, Rou .......................... disclosed no conflict of interest.
Wang, Allan .......................... disclosed no conflict of interest.
Wang, Annie .......................... disclosed no conflict of interest.
Wang, Bin .......................... disclosed no conflict of interest.
Wang, Bing .......................... disclosed no conflict of interest.
Wang, Bowen .......................... disclosed no conflict of interest.
Wang, Carol .......................... disclosed no conflict of interest.
Wang, Chao .......................... disclosed no conflict of interest.
Wang, Chau-Zen .................. Disclosed no conflict of interest.
Wang, Cong ...................... Disclosed no conflict of interest.
Wang, Dalin ...................... Disclosed no conflict of interest.
Wang, Dan ....................... Disclosed no conflict of interest.
Wang, Dong ...................... 4: Ensign Pharmaceutical, Inc.
Wang, Dong ...................... Disclosed no conflict of interest.
Wang, Edward .................. Disclosed no conflict of interest.
Wang, Edward D ................ Disclosed no conflict of interest.
Wang, Elizabeth ............... Disclosed no conflict of interest.
Wang, Haixing .................. Disclosed no conflict of interest.
Wang, Hao ....................... Disclosed no conflict of interest.
Wang, James H-C. .............. Disclosed no conflict of interest.
Wang, Jennifer C ................ Disclosed no conflict of interest.
Wang, Jennifer C ............... Disclosed no conflict of interest.
Wang, Jijia ....................... Disclosed no conflict of interest.
Wang, Jingyi ..................... Disclosed no conflict of interest.
Wang, Joon Ho .................. Disclosed no conflict of interest.
Wang, Kaidi ..................... Disclosed no conflict of interest.
Wang, Kun ....................... Disclosed no conflict of interest.
Wang, Lai ....................... Disclosed no conflict of interest.
Wang, Lin ....................... 3A: DePuy Synthes.
Wang, ling ....................... Disclosed no conflict of interest.
Wang, Liyun ..................... Disclosed no conflict of interest.
Wang, Mei ....................... Disclosed no conflict of interest.
Wang, Ming ..................... Disclosed no conflict of interest.
Wang, Minghui .................. Disclosed no conflict of interest.
Wang, Miqi ..................... Disclosed no conflict of interest.
Wang, Nian ..................... Disclosed no conflict of interest.
Wang, Ning ..................... Disclosed no conflict of interest.
Wang, Pei Wei .................. Disclosed no conflict of interest.
Wang, Qi ............................... Disclosed no conflict of interest.
Wang, Qiuru .......................... Disclosed no conflict of interest.
Wang, Quanming ..................... Disclosed no conflict of interest.
Wang, Rong ........................... Disclosed no conflict of interest.
Wang, Rongliang ........................ Disclosed no conflict of interest.
Wang, Shangping ..................... Disclosed no conflict of interest.
Wang, Shenghao ........................ Disclosed no conflict of interest.
Wang, Shubo .......................... Disclosed no conflict of interest.
Wang, Sun Young ...................... Disclosed no conflict of interest.
Wang, Tao .............................. Disclosed no conflict of interest.
Wang, Tian .............................. Disclosed no conflict of interest.
Wang, Tianbai .......................... Disclosed no conflict of interest.
Wang, Wei .............................. Disclosed no conflict of interest.
Wang, Weiguang ...................... Disclosed no conflict of interest.
Wang, Wenzheng ...................... Disclosed no conflict of interest.
Wang, William Y ...................... Disclosed no conflict of interest.
Wang, Xi ............................... Disclosed no conflict of interest.
Wang, Xiaodu .......................... Disclosed no conflict of interest.
Wang, Xiaofang ....................... Disclosed no conflict of interest.
Wang, Xinhui .......................... Disclosed no conflict of interest.
Wang, Yadong ......................... Disclosed no conflict of interest.
Wang, Yan-Hsiung .................... Disclosed no conflict of interest.
Wang, Yong ............................ Disclosed no conflict of interest.
Wang, Yufan .......................... Disclosed no conflict of interest.
Wang, Yufeng .......................... Disclosed no conflict of interest.
Wang, Zachary ........................ Disclosed no conflict of interest.
Wang, Zhongkui ....................... Disclosed no conflict of interest.
Wang, Zhulian ........................ 3A: Ensign Pharmaceutical, Inc.
Wanivenhaus, Florian .................. Disclosed no conflict of interest.
Wannomae, Keith ...................... Disclosed no conflict of interest.
Wannomae, Keith K .................. *Disclosed no conflict of interest.*
Warburton, Christopher ............ *Disclosed no conflict of interest.*
Ward, Spencer A .................... *Disclosed no conflict of interest.*
Ward, Zachary ........................ *Disclosed no conflict of interest.*
Waren, Daniel ........................ *Disclosed no conflict of interest.*
Warme, Winston J .................... *Disclosed no conflict of interest.*
Warner, Stephen ..................... 2: Stryker, Smith & Nephew, 3B: Depuy Synthes, 9: AO, OTA, AAOS.
Warren, Russell ..................... 4: A Gelity Biomechanics Corp.
Warren, Russell F ................... *Disclosed no conflict of interest.*
Warren, Russell F ................... 1: Arthrex, Inc.
Warrier, Alec .......................... *Disclosed no conflict of interest.*
Wasi, Murtaza .......................... *Disclosed no conflict of interest.*
Wassef, Christina ........................ *Disclosed no conflict of interest.*
Wastvedt, Solveig ........................ *Disclosed no conflict of interest.*
Watanabe, Hideaki ........................ *Disclosed no conflict of interest.*
Watanabe, Hiroshi ........................ *Disclosed no conflict of interest.*
Watanabe, Kota ........................ *Disclosed no conflict of interest.*
Watanabe, Masahiko ........................ *Disclosed no conflict of interest.*
Watanabe, Masatoki ........................ *Disclosed no conflict of interest.*
Watanabe, Shu ........................ *Disclosed no conflict of interest.*
Watkins, Amanda ........................ *Disclosed no conflict of interest.*
Watkins, Amanda R ........................ *Disclosed no conflict of interest.*
Watkins, Lauren ........................ 6: Siemens Healthineers, Canon Medical Solutions USA.
Watkins, Lauren ........................ 6: Siemens Healthineers.
Watkins, Lauren E ........................ 6: Siemens Healthineers USA, Canon Medical Systems USA.
Watson, J Tracy ........................ 1: Nuvasive, Biomet/Zimmer, Arthrex, Smith & Nephew, 3C: Bioventus.
Weard, Lauren S ........................ *Disclosed no conflict of interest.*
Weaver, Adam ........................ *Disclosed no conflict of interest.*
Weaver, Michael J ........................ 3A: Mass General Brigham, 7A: OsteoCentric Technologies.
Weber, Michael ........................ *Disclosed no conflict of interest.*
Weber, Michael H. Disclosed no conflict of interest.
Wechsler, Jacob T. Disclosed no conflict of interest.
Weder, Gilles Disclosed no conflict of interest.
Wee, Hwa Bok Disclosed no conflict of interest.
Wee, Hwabok Disclosed no conflict of interest.
Weeks, Jason Disclosed no conflict of interest.
Wegrzyn, Julien Disclosed no conflict of interest.
Wei, Lei Disclosed no conflict of interest.
Wei, Shuo Disclosed no conflict of interest.
Wei, Xin Disclosed no conflict of interest.
Weiler, Marek Disclosed no conflict of interest.
Weinberg, J. Brice Disclosed no conflict of interest.
Weinschenk, Robert Disclosed no conflict of interest.
Weinstein, Marc A. 3B: CoreLink, 5: Orthofix, Inc.
Weinstein, Stuart L. 1: Wolters Kluwer, 8: OREF.
Weintraub, Matthew Disclosed no conflict of interest.
Weir, Jared 3A: Weir Orthopedics, 3B: Stryker Orthopaedics, 4: Stryker Orthopaedics.
Weir, Jared 3B: Paid consultant.
Weis, MaryAnn Disclosed no conflict of interest.
Weisemann, Ferdinand Disclosed no conflict of interest.
Weiser, Jennifer Disclosed no conflict of interest.
Weiss, Jeffrey Disclosed no conflict of interest.
Weiss, Jeffrey A. Disclosed no conflict of interest.
Weiss, Kurt R. Disclosed no conflict of interest.
Weiss, Stephanie N. Disclosed no conflict of interest.
Weiss-Laxer, Nomi Disclosed no conflict of interest.
Weiss-Laxer, Nomi S. Disclosed no conflict of interest.
Welbeck, Arakua N. Disclosed no conflict of interest.
Welfley, Avery H. Disclosed no conflict of interest.
Welhaven, Hope ..................... Disclosed no conflict of interest.

Welhaven, Hope D .................. Disclosed no conflict of interest.

Welhaven, Hope D .................. Disclosed no conflict of interest.

Wells, Jocelyn ...................... Disclosed no conflict of interest.

Wells, Joel ........................ 3B: Ethicon.

Wells, Joel ........................ 3B: Johnson & Johnson.

Wen, Bang-Yu ...................... Disclosed no conflict of interest.

Wen, Sicheng ...................... Disclosed no conflict of interest.

Wentzel, Dylan ...................... Disclosed no conflict of interest.

Werner, Brian ...................... 3B: Arthrex Inc, Flexion Therapeutics, Biomet.

Werner, Frederick W .............. 4: Moximed, 9: HWBI.

Werner, Frederick W .............. 4: Moximed.

Wernke, Michael .................. Disclosed no conflict of interest.

Werre, Stephen R.................. Disclosed no conflict of interest.

Werth, Paul M ...................... Disclosed no conflict of interest.

Wertheimer, Michael R ........... Disclosed no conflict of interest.

Wessels, Emma ..................... Disclosed no conflict of interest.

Wessinger, Audrey C .............. Disclosed no conflict of interest.

West, Charles ...................... Disclosed no conflict of interest.


Weston, Jacob ..................... Disclosed no conflict of interest.

Westrich, Geoffrey ............... 1: Exactech, Stryker, 2: Stryker, 3B: Ethicon, Stryker, 5: Stryker, 8: EOA, Knee Society.


Westrich, Geoffrey ............... 1: Exactech, Inc, 3B: Exactech, Inc, Stryker - Mako Surgical Corp.

Wethey, Cambria.................. Disclosed no conflict of interest.

Weyers, Miriam ................... Disclosed no conflict of interest.

Whalen, Janey ..................... Disclosed no conflict of interest.

Whalen, Ryan ..................... Disclosed no conflict of interest.

Wheatley, Benjamin .............. Disclosed no conflict of interest.
Wheatley, Mitchell GA .................. disclosed no conflict of interest.
Whitaker, Colin ......................... disclosed no conflict of interest.
White, Christopher A .................. disclosed no conflict of interest.
White, Jacob .......................... disclosed no conflict of interest.
White, Micaela .......................... disclosed no conflict of interest.
White, Sarah .......................... disclosed no conflict of interest.
Whiting, Jordyn ........................ disclosed no conflict of interest.
Whitney, Kaitie .......................... disclosed no conflict of interest.
Whitton, Chris .......................... disclosed no conflict of interest.
Whyne, Cari .......................... disclosed no conflict of interest.
Whyte, Noelle .......................... disclosed no conflict of interest.
Wichman, Daniel M .................. disclosed no conflict of interest.
Wick, Joseph .......................... disclosed no conflict of interest.
Wick, Katherine ......................... disclosed no conflict of interest.
Wickiewicz, Thomas .................. 1: Stryker.
Wickiewicz, Thomas .................. 3B: Stryker.
Wickiewicz, Thomas .................. 5: Stryker-MAKO.
Wickiewicz, Thomas .................. 1: Royalties from Stryker.
Wickiewicz, Thomas L .................. 1: Styker-MAKO.
Wickman, John ......................... disclosed no conflict of interest.
Wideman, Laurie ......................... disclosed no conflict of interest.
Widmer, Jonas .......................... disclosed no conflict of interest.
Widowski, Tina .......................... disclosed no conflict of interest.
Wiehenkamp, Lennart .................. disclosed no conflict of interest.
Wier, Julian .......................... disclosed no conflict of interest.
Wiesli, Matthias G .................. disclosed no conflict of interest.
Wiesner, Uli .......................... 3B: Elucida Oncology, Inc.
Wiesner, Uli B .......................... disclosed no conflict of interest.
Wilder, Lauren .................. Disclosed no conflict of interest.
Wilebski, Benjiman J .......... Disclosed no conflict of interest.
Wiley, Rachel .................. Disclosed no conflict of interest.
Wilken, Jason ................. Disclosed no conflict of interest.
Wilken, Jason M ............... Disclosed no conflict of interest.
Wilkin, Geoffrey .............. Disclosed no conflict of interest.
Wilkinson, J Mark ............. Disclosed no conflict of interest.
Willems, Nathalie ............. 3A: Stryker, 4: Stryker.
Willett, Nick ................... Disclosed no conflict of interest.
Willett, Nick J ................ Disclosed no conflict of interest.
Willey, Michael ............... Disclosed no conflict of interest.
Willey, Michael C. ............ Disclosed no conflict of interest.
Williams, Abby ............... Disclosed no conflict of interest.
Williams, Alicia ............... Disclosed no conflict of interest.
Williams, Ashley A .......... Disclosed no conflict of interest.
Williams, Brandon .......... Disclosed no conflict of interest.
Williams, Brandon P .......... Disclosed no conflict of interest.
Williams, Caleb ............... Disclosed no conflict of interest.
Williams, David E .......... Disclosed no conflict of interest.
Williams, David R .......... Disclosed no conflict of interest.
Williams, Dustin .......... Disclosed no conflict of interest.
Williams, Frances .......... Disclosed no conflict of interest.
Williams, Gregory .......... 3A: NuVasive, 4: NuVasive.
Williams, Gregory M .......... 3A: NuVasive, 4: NuVasive.
Williams, Joel ................. Disclosed no conflict of interest.
Williams, Jonathan C .......... Disclosed no conflict of interest.
Williams, Justin .............. Disclosed no conflict of interest.
Williams, Kylie E ............ Disclosed no conflict of interest.
Williams, Nerissa .......... Disclosed no conflict of interest.
Williams, Rebecca .............................Disclosed no conflict of interest.
Williams, Riley J ..............................Disclosed no conflict of interest.
Williams, Sophie ..............................5: DePuy Synthes, 6: DePuy Synthes, 8: Bone and Joint Research, 9: British Orthopaedic Research Society.
Williamson, Alexander N ....................Disclosed no conflict of interest.
Williamson, Lucinda ..........................Disclosed no conflict of interest.
Williamson, Tyler K ..........................Disclosed no conflict of interest.
Willie, Bettina .................................Disclosed no conflict of interest.
Willie, Bettina M ...............................Disclosed no conflict of interest.
Willing, Ryan ..................................3B: Lima Corporate, Stryker.
Willing, Ryan ..................................3B: Lima, 5: Stryker.
Willing, Ryan .................................Disclosed no conflict of interest.
Willms, Scott .................................Disclosed no conflict of interest.
Wills, Dan ..........................Disclosed no conflict of interest.
Willwacher, Steffen ..........................Disclosed no conflict of interest.
Wilson, Harrison ..............................Disclosed no conflict of interest.
Wilson, Harrison S ............................Disclosed no conflict of interest.
Wilson, Heather ...............................Disclosed no conflict of interest.
Wilson, Jaron P ..............................Disclosed no conflict of interest.
Wilson, Seth .................................Disclosed no conflict of interest.
Wilson, Stephen Patrick .....................Disclosed no conflict of interest.
Wilzman, Andrew .............................Disclosed no conflict of interest.
Wimmer, Markus A ...........................3C: Endolab, 5: Corin, Liposphere, 6: CeramTec, Stryker, 8: Elsevier, 9: ICRS.
Wimmer, Markus A ...........................3C: Endolab, 5: Corin, Liposphere, 6: Stryker, CeramTec, 8: Corin, Liposphere, 9: Corin, Liposphere.
Winalsiki, Carl .................................Disclosed no conflict of interest.
Winalski, Carl S .......................... 6: Parexel, CartiHeal, Janssen Research and Development, Siemens.


Windhagen, Henning .................. Disclosed no conflict of interest.

Windhager, Reinhard .................. Disclosed no conflict of interest.

Windle, Jolene J ........................ Disclosed no conflict of interest.

Windolf, Markus ...................... Disclosed no conflict of interest.

Winlove, Peter ........................ Disclosed no conflict of interest.

Winter, Nathan ....................... Disclosed no conflict of interest.

Wirth, Brunhilde ..................... Disclosed no conflict of interest.

Wise, Barton ........................... Disclosed no conflict of interest.

Wise, Brent ............................ Disclosed no conflict of interest.

Wise, Brian C ......................... Disclosed no conflict of interest.

Wise, Carol ........................... Disclosed no conflict of interest.

Wise, Carol A ........................ Disclosed no conflict of interest.

Wise, Casey ........................... 3A: DePuy Synthes Joint Reconstruction, 4: Johnson & Johnson.

Wise, Casey ........................... 3A: DePuy Synthes.

Wist, Sara ............................. Disclosed no conflict of interest.

Wittstein, Jocelyn .................... 6: Arthrex, Prodigy Surgical, Aesculap Biologics.


Wittwer, Taylor ...................... Disclosed no conflict of interest.

Wiznia, Daniel H ..................... Disclosed no conflict of interest.

Wojda, Sam .......................... Disclosed no conflict of interest.

Wojda, Samantha J .................. Disclosed no conflict of interest.

Wolf, Megan ........................ Disclosed no conflict of interest.

Wolfe, Amber M ....................... Disclosed no conflict of interest.

Wolfe, Preston ....................... Disclosed no conflict of interest.

Wolfram, Uwe ......................... Disclosed no conflict of interest.

Wolfson, David ...................... 3A: DePuy Synthes Joint Reconstruction.

Wolfson, David ...................... 3A: Depuy Synthes.
Wolfson, Julian .......................... Disclosed no conflict of interest.
Wolfstadt, Jesse I .......................... Disclosed no conflict of interest.
Wolleb, Maja .......................... Disclosed no conflict of interest.
Wolterbeek, Nienke .......................... Disclosed no conflict of interest.
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Wong, Andrew .......................... Disclosed no conflict of interest.
Wong, Che Hang Jason .......................... Disclosed no conflict of interest.
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Wong, Tiana J .......................... Disclosed no conflict of interest.
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Woodard, Erik .......................... 3A: Erik Woodard.
Woodling, Kellie .......................... Disclosed no conflict of interest.
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Woods, Ian .......................... Disclosed no conflict of interest.
Woods, Paige S. .......................... Disclosed no conflict of interest.
Woolley, William John .......................... Disclosed no conflict of interest.
Working, Zachary M .......................... 8: Journal of Orthopaedic Trauma, 9: Orthopaedic Trauma Association, ISFR.
Working, Zachary W .......................... 8: Journal of Orthopaedic Trauma, 9: OTA.
woster, patrick .......................... Disclosed no conflict of interest.
Wright, Jennifer L .......................... Disclosed no conflict of interest.
Wright, Thomas .......................... 3B: Exactech, Inc., 7A: Exactech, Inc.
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Wright, Timothy .......................... Disclosed no conflict of interest.
Wright, Timothy ................. 7A: Exactech, Knee Society, LimaCorporate, Mathys.


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Wu Martinez, Oliver ................ Disclosed no conflict of interest.

Wu, Bin ................................ Disclosed no conflict of interest.

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Wu, Shun-Cheng ..................... Disclosed no conflict of interest.

Wu, Stephanie ..................... Disclosed no conflict of interest.

Wu, Yongren ......................... Disclosed no conflict of interest.

Wu, Yuanqiao ...................... 3A: ZSFab.
Wuertz, Karin.......................... *Disclosed no conflict of interest.*
Wuertz-Kozak, Karin............. 8: Brain and Spine.
Wukich, Dane K .................. 3B: Orthofix Medical Inc., Stryker and Wright Medical, 7A: Arthrex Inc.
Wunderli, Stefania L .......... 3A: A. Menarini GmbH.
Wunderli, Stefania L ........... 3C: A. Menarini GmbH.
Wyand, Trevor .................. *Disclosed no conflict of interest.*
Wyatt, Hayley ..................... *Disclosed no conflict of interest.*
Xavier, Jorden ..................... *Disclosed no conflict of interest.*
Xi, Yin .......................... *Disclosed no conflict of interest.*
Xia, Yang .......................... *Disclosed no conflict of interest.*
Xiang, Shiqi ...................... *Disclosed no conflict of interest.*
Xiao, Li (Jasmine) ............... *Disclosed no conflict of interest.*
Xiao, Pengwei .................... *Disclosed no conflict of interest.*
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Xu, Kai .......................... 3A: ZSFab.
Xu, Peng .......................... *Disclosed no conflict of interest.*
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Yamoah, Archibald A. ..................Disclosed no conflict of interest.
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Yang, Guangli .............................Disclosed no conflict of interest.
Yang, Huizhou .............................Disclosed no conflict of interest.
Yang, Irene ...............................Disclosed no conflict of interest.
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Yang, Xinlin ..............................Disclosed no conflict of interest.
Yang, Xionggang .........................Disclosed no conflict of interest.
Yang, Xu ........................................3A: Hospital for Special Surgery.
Yang, Xu ........................................Disclosed no conflict of interest.
Yang, Yang ........................................Disclosed no conflict of interest.
Yang, Yangyang ..................................Disclosed no conflict of interest.
Yang, Yongkang ..................................Disclosed no conflict of interest.
Yang, Yunzhi ......................................Disclosed no conflict of interest.
Yang, Zhengmeng ..................................Disclosed no conflict of interest.
Yanik, Elizabeth L ................................Disclosed no conflict of interest.
Yanke, Adam B ..................................5: NIH.
Yao, Hai ........................................Disclosed no conflict of interest.
Yao, Lutian ........................................Disclosed no conflict of interest.
Yao, Vincent ......................................Disclosed no conflict of interest.
Yaseen, Raheel Yaseen .........................Disclosed no conflict of interest.
Yasuda, Kazunori ................................Disclosed no conflict of interest.
Yasuda, Tadashi ..................................Disclosed no conflict of interest.
Yasui, Youichi ....................................Disclosed no conflict of interest.
Yau, Anne ........................................Disclosed no conflict of interest.
Yazdekhasti, Amirhossein ....................Disclosed no conflict of interest.
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Ye, Tong ..........................................Disclosed no conflict of interest.
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Yellowley, Clare E ......................Disclosed no conflict of interest.
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Yerby, Scott .........................3A: Si-Bone.
Yeung, Kelvin .........................3B: AK Medical Inc.
Yiantsos, Olga ......................Disclosed no conflict of interest.
Yik, Jasper .........................Disclosed no conflict of interest.
Yik, Jasper HN ......................4: Tesio Pharmaceuticals, 8: ORS, ICRS.
Yin, Jimin .........................Disclosed no conflict of interest.
Yin, Jordan .........................Disclosed no conflict of interest.
Ying, Jun .........................Disclosed no conflict of interest.
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Yiu, Hon-Pan ......................Disclosed no conflict of interest.
Ylisiurua, Sampo ...................Disclosed no conflict of interest.
Yokoe, Takuji ......................Disclosed no conflict of interest.
Yokota, Isao ......................Disclosed no conflict of interest.
Yokota, Shunichi ..................Disclosed no conflict of interest.
Yokoyama, Yoichi ................Disclosed no conflict of interest.
Yonemori, Kan ................Disclosed no conflict of interest.
Yoneno, Moe ..................Disclosed no conflict of interest.
Yoo, Brad .........................Disclosed no conflict of interest.
Yoo, Jae Chul ....................3B: Exactech, Inc., 7A: Exactech, Inc.
Yoo, Je-Hyun ..................Disclosed no conflict of interest.
Yoo, Jeong Joon ..................3B: Corentec company.
Yoon, Clair ......................Disclosed no conflict of interest.
Yoon, Dong Hwan ................Disclosed no conflict of interest.
Yoon, Dong Suk ................Disclosed no conflict of interest.
Yoon, Jae Youn ................Disclosed no conflict of interest.
Yoon, Jee Wook ..................Disclosed no conflict of interest.
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Yoshitomi, Hiroyuki ....Disclosed no conflict of interest.
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Youngstrom, Daniel ....Disclosed no conflict of interest.
Yousefi, Farbod ..............Disclosed no conflict of interest.
Yousefi, Mojtaba ..........Disclosed no conflict of interest.
Yu, Chenhao .................Disclosed no conflict of interest.
Yu, Elaine W…………………………4: Opko, 5: Amgen, 8: JBMR, Bone, 9: ASBMR.
Yu, Fang F…………………………Disclosed no conflict of interest.
Yu, Haiquan …………………………Disclosed no conflict of interest.
Yu, Jia ………………………………Disclosed no conflict of interest.
Yu, Jun ………………………………Disclosed no conflict of interest.
Yu, Kanglun …………………………Disclosed no conflict of interest.
Yu, Ling ………………………………Disclosed no conflict of interest.
Yu, Marc G …………………………Disclosed no conflict of interest.
Yu, Miao ……………………………Disclosed no conflict of interest.
Yu, S. Michael ……………………4: 3Helix.
Yu, Seungju Michael ……………1: 3Helix, Inc.
Yu, Victoria …………………………Disclosed no conflict of interest.
Yu, Wanxin …………………………Disclosed no conflict of interest.
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Yu, William T ………………………Disclosed no conflict of interest.
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Yu, Yinxian …………………………Disclosed no conflict of interest.
Yu, Zhe ………………………………Disclosed no conflict of interest.
Yuan, Huipin ………………………3A: employee at Kuros Biosciences Bv.
Yue, Li ………………………………Disclosed no conflict of interest.
Yufeng, Wang ………………………Disclosed no conflict of interest.
Yuh, Catherine ……………………Disclosed no conflict of interest.
Yuh, Jean ……………………………Disclosed no conflict of interest.
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Yurube, Takashi ……………………Disclosed no conflict of interest.
Zabawa, Luke ………………………Disclosed no conflict of interest.
Zachariou, Venetia .......................... Disclosed no conflict of interest.
Zaffagnini, Stefano ........................ 3B: Smith & Nephew, De Puy.
Zaheer, Aroob .............................. Disclosed no conflict of interest.
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Zeng, Li .................................. 3B: Remedium Bio, Inc.
Zeng, Wei .............................. Disclosed no conflict of interest.
Zeng, Yuze .............................. Disclosed no conflict of interest.
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Zhang, Zongtao ............................3A: b-ONE Ortho.
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Zitnay, Jared L.......................*Disclosed no conflict of interest.*
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Zoretic, Sydney.......................3A: Sydney Zoretic.
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Zou, Ke..................................*Disclosed no conflict of interest.*
Zou, Trudy..............................*Disclosed no conflict of interest.*
Zuchelli, Andrea......................*Disclosed no conflict of interest.*
Zucherman, Jim.........................3B: Ivivi, Benvenue, Nocimed, 3C: Spine 21, 4: Ivivi, Spine 21, Benvenue, Rio grande, Sparktek, Active Implants.
Zucherman, Jim.........................3B: Ivivi, Benvenue, Nocimed, 3C: Spine21, 4: Ivivi, Nocimed, Spine21, Sparktek, Rio grande.
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Zukowski, Hannah.....................*Disclosed no conflict of interest.*
Zumpano, Bernadette................3A: Garwood Medical Devices, 4: Garwood Medical Devices.
Zwingenberger, Stefan..............*Disclosed no conflict of interest.*