

ORS 2022 Disclosure Index

Abbasian, Mohammadreza*Disclosed no conflict of interest.*

Abdeen, Ayesha.....*Disclosed no conflict of interest.*

Abdel, Matthew7A: Stryker; 7B: Springer; 9: AAOS.

Abdul, Temilola*Disclosed no conflict of interest.*

Abe, Yuichiro*Disclosed no conflict of interest.*

Abe, Yuichiro*Disclosed no conflict of interest.*

Abraham, Adam C*Disclosed no conflict of interest.*

Abraham, Adam C.*Disclosed no conflict of interest.*

Abraham, Paul F*Disclosed no conflict of interest.*

Afara, Isaac O.....*Disclosed no conflict of interest.*

Agarwal, Pranay*Disclosed no conflict of interest.*

Agarwal, Sanchita.....*Disclosed no conflict of interest.*

Agel, Julie.....*Disclosed no conflict of interest.*

Agrawal, Praful3A: Intuitive Surgical Inc.

Ahamed, Fayyaz*Disclosed no conflict of interest.*

Ahmad, Mubashir.....*Disclosed no conflict of interest.*

Ahmed, Rafay*Disclosed no conflict of interest.*

Ahmed, Saima.....*Disclosed no conflict of interest.*

Ahn, Taeyong.....*Disclosed no conflict of interest.*

Aibinder, William.....3B: Exactech, Inc.

Aitken, Holly D.....*Disclosed no conflict of interest.*

Akanda, Shamimur Rahman*Disclosed no conflict of interest.*

Akbar, Moeed.....*Disclosed no conflict of interest.*

Akk, Antonina K.....*Disclosed no conflict of interest.*

Akkus, Zeynettin.....*Disclosed no conflict of interest.*

Al Zoubi, Farid.....*Disclosed no conflict of interest.*

Al-Adlaan, Assad A*Disclosed no conflict of interest.*

Alagha, Hadi.....*Disclosed no conflict of interest.*

Albert, Hanne*Disclosed no conflict of interest.*

Albro, Michael B*Disclosed no conflict of interest.*

Alder, Kareme.....*Disclosed no conflict of interest.*

Alepuz, Adrian J.....*Disclosed no conflict of interest.*

Alexander, Peter G*Disclosed no conflict of interest.*

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

Alfayyadh, Abdulmajeed.....*Disclosed no conflict of interest.*

Alford, Andrea*Disclosed no conflict of interest.*

Alhamad, Mostafa.....*Disclosed no conflict of interest.*

Alhasan, Hend.....*Disclosed no conflict of interest.*

Ali, Azhar A3A: Stryker.

Aliakbarighavimi, Soheila.....*Disclosed no conflict of interest.*

Alighanbari, Mohsen*Disclosed no conflict of interest.*

Alini, Mauro7B: JOR Spine, ORS; 8: JOR Spine.

Allan-Rahill, Nathaniel H.....*Disclosed no conflict of interest.*

Allen, Christine3A: KenSci, Inc.

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

Alvarez, Jonathan*Disclosed no conflict of interest.*

Amadio, Joseph M.....*Disclosed no conflict of interest.*

Amadio, Peter.....*Disclosed no conflict of interest.*

Ambite, Ines.....*Disclosed no conflict of interest.*

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

Ampadi Ramachandran, Remya*Disclosed no conflict of interest.*

Anabaraonye, Nancy*Disclosed no conflict of interest.*

Anantha Krishnan, Ahilan*Disclosed no conflict of interest.*

Andarawis-Puri, Nelly.....*Disclosed no conflict of interest.*

Anderson, Andrew*Disclosed no conflict of interest.*

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

Anderson, David E*Disclosed no conflict of interest.*

Anderson, Don.....4: Iowa Simulation Solutions, LLC.

Anderson, Don.....4: Iowa Simulation Solutions.

Anderson, Don D*Disclosed no conflict of interest.*

Anderson, Don D.4: Iowa Simulation Solutions.

Anderst, William.....9: CSRS Grants Committee.

Anderst, William.....9: CSRS.

Anderst, William.....5: Smith & Nephew; 9: CSRS Grants Committee.

Andre, Graham*Disclosed no conflict of interest.*

Andreassen, Thor E.....*Disclosed no conflict of interest.*

Angibaud, Laurent D.....3A: Exactech.

Ansari, Mohammad Y.....*Disclosed no conflict of interest.*

Antonyak, Mark A*Disclosed no conflict of interest.*

Antrobus, Romare*Disclosed no conflict of interest.*

Applegate, Lee*Disclosed no conflict of interest.*

Aram, Luke J.3A: DePuy Synthes; 4: Johnson and Johnson.

Arjmand, Navid.....*Disclosed no conflict of interest.*

Aronow, Bruce*Disclosed no conflict of interest.*

Arteaga, Alexandra.....*Disclosed no conflict of interest.*

Arts, Jacobus J.*Disclosed no conflict of interest.*

Artzi, Natalie.....*Disclosed no conflict of interest.*

Aruwajoye, Olumide*Disclosed no conflict of interest.*

Asano, Tsuyoshi.....*Disclosed no conflict of interest.*

Ashmyan, Roman*Disclosed no conflict of interest.*

Ashraf, Sadaf*Disclosed no conflict of interest.*

Assi, Sereen A*Disclosed no conflict of interest.*

Ateshian, Gerard A*Disclosed no conflict of interest.*

Athwal, George S......*Disclosed no conflict of interest.*

Atkins, Penny R.....*Disclosed no conflict of interest.*

Atkinson, John P.*Disclosed no conflict of interest.*

Ausman, Robin*Disclosed no conflict of interest.*

Avalos, Pablo*Disclosed no conflict of interest.*

Awosanya, Olatundun D.*Disclosed no conflict of interest.*

Ayres, Douglas K*Disclosed no conflict of interest.*

Ayushman, Manish*Disclosed no conflict of interest.*

Azar, Tala*Disclosed no conflict of interest.*

Babich, John*Disclosed no conflict of interest.*

Babikian, George M1: Smith Nephew; 2: Smith Nephew; 3B: Smith Nephew.

Back, Jungho*Disclosed no conflict of interest.*

Badura, Jeffrey M.3A: Medtronic; 4: Medtronic.

Bae, Hyun1: DePuy J&J, Nuvasive, Stryker, Zimmer Biomet; 3B: DePuy J&J, Nuvasive, Stryker, Zimmer Biomet; 4: DePuy J&J, Prosidyant, Medtronic; 5: Medtronic, Spine Art, Nuvasive, Mesoblast, Limiflex Spine, Intrinsic Therapeutics; 9: Korean American Spine Society, Engage Surgical.

Baez, Rafael3A: Stryker; 4: Stryker.

Bahk, Ji Hoon*Disclosed no conflict of interest.*

Bahney, Chelsea1: Iota Biosciences; 9: Orthopaedic Research Society, Tissue Engineering and Regenerative Medicine International Society, Orthopaedic Trauma Association.

Bahney, Chelsea1: TERMIS, OTA, Iota Biosciences; 9: Orthopaedic Research Society.

Bailey, Jeannie*Disclosed no conflict of interest.*

Bailey, Jeannie F3B: Hinge Health; 4: Bioniks.

Baitner, Miriam*Disclosed no conflict of interest.*

Bajpayee, Ambika*Disclosed no conflict of interest.*

Baker, Andrew1: Viscus.

Baker, Bree*Disclosed no conflict of interest.*

Baker, Brendon M*Disclosed no conflict of interest.*

Ball, Erin E.*Disclosed no conflict of interest.*

Ball, Hope C.*Disclosed no conflict of interest.*

Ballatori, Alexander*Disclosed no conflict of interest.*

Bandi, Marc3A: Zimmer Biomet; 4: Zimmer Biomet.

Banffy, Michael B2: Smith and Nephew; 3B: Smith and Nephew, Stryker, Vericel.

Banks, Scott1: DJO, Stryker; 2: DJO; 3B: DJO, MicroPort, OnPoint; 4: OnPoint; 9: ISTA.

Bansal, Sachi*Disclosed no conflict of interest.*

Bansal, Sonia.....*Disclosed no conflict of interest.*

Bao, Guangyu*Disclosed no conflict of interest.*

Barajas, J. Nicholas*Disclosed no conflict of interest.*

Barba, Adriana.....*Disclosed no conflict of interest.*

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

Barcellona, Marcos.....*Disclosed no conflict of interest.*

Baré, Jonathan.....*1: Corin; 2: Corin; 3B: Corin, MatOrtho; 3C: 360 Med Care; 4: Corin, 360 Med Care; 5: MatOrtho.*

Barg, Alexej.....*Disclosed no conflict of interest.*

Barreto, Gonçalo*Disclosed no conflict of interest.*

Barton, Kristen.....*Disclosed no conflict of interest.*

Batailler, Cecile.....*Disclosed no conflict of interest.*

Baumann, Jack R.....*Disclosed no conflict of interest.*

Bautista, Andre.....*Disclosed no conflict of interest.*

Bautista, Catherine A*Disclosed no conflict of interest.*

Bayer, Steve.....*Disclosed no conflict of interest.*

Bayram, Banu*Disclosed no conflict of interest.*

Beaule, Paul*1: Medacta, MicroPort, MatOrtho, Corin; 3B: MicroPort, DePuy Synthes, Zimmer Biomet, MatOrtho; 5: MicroPort Orthopedics, DePuy/Johnson & Johnson, Zimmer Biomet, Corin, Medacta; 7B: Wolters Kluwer; 9: International Society for Hip Arthroscopy.*

Beaule, Paul E*1: Medacta, MicroPort, MatOrtho, Corin; 3B: MicroPort, DePuy Synthes, Zimmer Biomet, MatOrtho; 5: MicroPort Orthopedics, DePuy/Johnson & Johnson, Zimmer Biomet, Corin, Medacta; 9: International Society for Hip Arthroscopy.*

Beck, Belinda B*3A: The Bone Clinic.*

Beena Valsan, Vaishnavi*Disclosed no conflict of interest.*

Behrens, Andrew*Disclosed no conflict of interest.*

Bell, Rebecca.....*Disclosed no conflict of interest.*

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

Bellido, Teresita.....*Disclosed no conflict of interest.*

Benetti, Edmondo*Disclosed no conflict of interest.*

Bensreti, Husam Eldin*Disclosed no conflict of interest.*

Bergholt, Mads S*Disclosed no conflict of interest.*

Bergman, Rachel.....*Disclosed no conflict of interest.*

Bergstrom, Annika.....*Disclosed no conflict of interest.*

Berman, Alycia.....*Disclosed no conflict of interest.*

Berry, Daniel3B: Bodycad, DePuy; 4: Bodycad; 5: DePuy; 7A: DePuy; 7B: Elsevier, Wolters Kluwer Health - Lippincott Williams & Wilkins; 8: Journal of Bone and Joint Surgery - American; 9: Current Concepts in Joint Replacement (Hip Society and Knee Society), International Hip Society, Orthopaedic Research and Education Foundation, Mayo Clinic Board of Governors.

Berube, Erin*Disclosed no conflict of interest.*

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

Bettencourt, Jacob*Disclosed no conflict of interest.*

Betz, Michael*Disclosed no conflict of interest.*

Bhadouria, Neharika*Disclosed no conflict of interest.*

Bhakhri, Rhea*Disclosed no conflict of interest.*

Bhutani, Nidhi.....*Disclosed no conflict of interest.*

Bigueti, Claudia*Disclosed no conflict of interest.*

Bijukumar, Divya*Disclosed no conflict of interest.*

Billings, Caroline*Disclosed no conflict of interest.*

Binder-Markey, Benjamin I*Disclosed no conflict of interest.*

Birk, David*Disclosed no conflict of interest.*

Birk, David E.....*Disclosed no conflict of interest.*

Blatter, Iris3A: Zimmer Biomet.

Block, Julie*Disclosed no conflict of interest.*

Blokpoel Ferreras, Lia.....*Disclosed no conflict of interest.*

Blosser, Rachel J.....*Disclosed no conflict of interest.*

Boerckel, Joel.....*Disclosed no conflict of interest.*

Boerckel, Joel D*Disclosed no conflict of interest.*

Böhm, Harald.....*Disclosed no conflict of interest.*

Boldt, Kevin*Disclosed no conflict of interest.*

Bollag, Wendy B*Disclosed no conflict of interest.*

Bonewald, Lynda*Disclosed no conflict of interest.*

Bonnevie, Edward3A: Johnson and Johnson.

Bonnevie, Edward*Disclosed no conflict of interest.*

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

Boone, Kyle W*Disclosed no conflict of interest.*

Borjali, Alireza*Disclosed no conflict of interest.*

Bostrom, Mathias*3B: Smith & Nephew, Memphis, TN, paid consultant.*

Bostrom, Mathias*1: Smith & Nephew.*

Bostrom, Mathias P.g.*3B: Smith & Nephew.*

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

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

Bouxsein, Mary L*3B: Keros Therapeutics; 4: Keros Therapeutics, Acceleron Pharma; 9: Executive Committee of the American Society of Bone and Mineral Research.*

Bowen, Edward*Disclosed no conflict of interest.*

Boyce, Brendan F*Disclosed no conflict of interest.*

Bozynski, Chantelle C*Disclosed no conflict of interest.*

Bracey, Daniel*Disclosed no conflict of interest.*

Bradley, Patrick X*Disclosed no conflict of interest.*

Brady, Alex W.*Disclosed no conflict of interest.*

Brahmachary, Priyanka*Disclosed no conflict of interest.*

Brama, Pieter*Disclosed no conflict of interest.*

Brendel, Matt*Disclosed no conflict of interest.*

Briggs, Karen*Disclosed no conflict of interest.*

Brillinger, Julia*Disclosed no conflict of interest.*

Brooks, Daniel J*Disclosed no conflict of interest.*

Brophy, Robert*8: Journal of the American Academy of Orthopaedic Surgery, American Journal of Sports Medicine.*

Brothers, Kimberly M*Disclosed no conflict of interest.*

Browe, David*Disclosed no conflict of interest.*

Brown, Edward*Disclosed no conflict of interest.*

Brown, Jessica*Disclosed no conflict of interest.*

Brown, Tammy*Disclosed no conflict of interest.*

Brucato, Valerio*Disclosed no conflict of interest.*

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

Brudnicki, Philip.....*Disclosed no conflict of interest.*

Bruijn, Joost de.....3A: Kuros Biosciences BV; 4: Kuros Biosciences AG.

Brunner, Florian.....*Disclosed no conflict of interest.*

Brusalis, Christopher*Disclosed no conflict of interest.*

Bruzzaniti, Angela.....*Disclosed no conflict of interest.*

Bryniarski, Anna*Disclosed no conflict of interest.*

Buchanan, Thomas S.*Disclosed no conflict of interest.*

Buchowski, Jacob*Disclosed no conflict of interest.*

Buckley, Conor.....5: Integra.

Buckley, Jenni*Disclosed no conflict of interest.*

Bulun, Serdar E.*Disclosed no conflict of interest.*

Burda, Joshua*Disclosed no conflict of interest.*

Burdick, Jason A......8: ACS Biomaterials Science and Engineering.

Burdick, Jason A.8: ACS Biomat. Sci. Eng.

Burdis, Ross*Disclosed no conflict of interest.*

Burge, Alissa J.....*Disclosed no conflict of interest.*

Burns, Jillian C.....*Disclosed no conflict of interest.*

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

Burris, David L.....*Disclosed no conflict of interest.*

Burton, Bryce.....*Disclosed no conflict of interest.*

Burton, Lindsey.....*Disclosed no conflict of interest.*

Busch, Megan E*Disclosed no conflict of interest.*

Bushan Raina, Deepak.....4: Moroxite AB, Sweden.

Bushan Raina, Deepak.....4: Stockholder in Moroxite AB, Sweden.

Bushan Raina, Deepak.....4: DR holds stock in Moroxite AB, Sweden.

Bylski-Austrow, Donita I.....9: Scoliosis Research Society (SRS).

Byrapogu, Venkata Kalyan C.....*Disclosed no conflict of interest.*

Byrne, Kevin J*Disclosed no conflict of interest.*

Byrnes, Sara Kimberly*Disclosed no conflict of interest.*

Cahill, Sean*Disclosed no conflict of interest.*

Cai, Lei.....*Disclosed no conflict of interest.*

Caldwell, Jon-Michael*Disclosed no conflict of interest.*

Caliva, Francesco*Disclosed no conflict of interest.*

Call, Jarrod A......*Disclosed no conflict of interest.*

Campfield, Brian D......*Disclosed no conflict of interest.*

Cannon, Paul.....*Disclosed no conflict of interest.*

Caparaso, Sydney M.....*Disclosed no conflict of interest.*

Capin, Jacob J......*Disclosed no conflict of interest.*

Carballo, Camila B*Disclosed no conflict of interest.*

Carbello, Camila.....*Disclosed no conflict of interest.*

Cardona Ramirez, Sebastian*Disclosed no conflict of interest.*

Carli, Alberto V*3B: Heraeus, paid consultant.*

Carlson, Cathy S......*Disclosed no conflict of interest.*

Carlson, Mitchell R*Disclosed no conflict of interest.*

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

Carozza, Mariel.....*Disclosed no conflict of interest.*

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

Carroll, Austin H.*Disclosed no conflict of interest.*

Carter, Kristyn.....*Disclosed no conflict of interest.*

Carvalho, Kepler*Disclosed no conflict of interest.*

Casella, Alena*Disclosed no conflict of interest.*

Castaneda, Chloe.....*Disclosed no conflict of interest.*

Castaneda, Macy*Disclosed no conflict of interest.*

Castile, Ryan*Disclosed no conflict of interest.*

Castillo Tafur, Julio*Disclosed no conflict of interest.*

Castillo, Francine*Disclosed no conflict of interest.*

Catelli, Danilo*Disclosed no conflict of interest.*

Caughey, Sarah.....*Disclosed no conflict of interest.*

Chachad, Ravi*Disclosed no conflict of interest.*

Chahine, Nadeen O.....*Disclosed no conflict of interest.*

Chalberg, Thomas.....*4: Owns stock in Genascence.*

Chalmers, Brian*Disclosed no conflict of interest.*

Chamberlain, Aaron*Disclosed no conflict of interest.*

Chan, Calvin K.*Disclosed no conflict of interest.*

Chan, Charles*Disclosed no conflict of interest.*

Chan, Julie.....*6: Misonix.*

Chandrasekaran, Prashant*Disclosed no conflict of interest.*

Chang, Leslie*Disclosed no conflict of interest.*

Charles, Julia*Disclosed no conflict of interest.*

Chastain, Kalle*Disclosed no conflict of interest.*

Chaudhuri, Ovijit*Disclosed no conflict of interest.*

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

Chen, Antonia*3B: bOne, Convatec, Avanos, Stryker, 3M, Heraeus, IrriMax, Pfizer, GLG, Ethicon, Guidepoint, PhagoMed; 4: Graftworx, Joint Purification Systems, Sonoran, IrriMax, Hyalex; 5: Sectra; 7B: SLACK Incorporated, UpToDate (reviewer); 8: Journal of Arthroplasty, Annals of Joint, Bone and Joint 360 Journal, Clinical Orthopaedics and Related Research, Journal of Bone and Joint Infection, Knee Surgery, Sports T, Journal of Orthopaedic Re; 9: AAOS, AJRR, AAHKS, European Knee Association),.*

Chen, Antonia*1: Stryker; 3B: Adaptive Phage Therapeutics, Avanos, BICMD, bOne, Convatec, Ethicon, GLG, Guidepoint, Heraeus, IrriMax, Pfizer, Stryker; 4: bOne, Graftworx, Hyalex, IrriMax, Joint Purification Systems, Sonoran; 7B: SLACK Incorporated, UpToDate (reviewer); 8: JBJS, JOA, CORR, JBJS, KSSTA; 9: AAHKS, AAOS, AJRR, EKA.*

Chen, Daoyun*Disclosed no conflict of interest.*

Chen, Ningrong*Disclosed no conflict of interest.*

Chen, Qian*Disclosed no conflict of interest.*

Chen, Stephen*Disclosed no conflict of interest.*

Chen, Tony*Disclosed no conflict of interest.*

Chen, Tony*3A: AGelity Biomechanics Corp; 4: AGelity Biomechanics Corp.*

Chen, Xiang*Disclosed no conflict of interest.*

Cheng, Gang*Disclosed no conflict of interest.*

Cheng, Kai-yuan*Disclosed no conflict of interest.*

Cheng, Zhiliang*Disclosed no conflict of interest.*

Cheong, Sunghun.....*Disclosed no conflict of interest.*

Cherief, Masnsen.....*Disclosed no conflict of interest.*

Cherif, Hosni*Disclosed no conflict of interest.*

Cheung, Wing-Hoi.....*Disclosed no conflict of interest.*

Chhay, Bonirath*Disclosed no conflict of interest.*

Chi, Hannah*Disclosed no conflict of interest.*

Chi, Sheng-Wei*Disclosed no conflict of interest.*

Childs, Hannah R......*Disclosed no conflict of interest.*

Childs, Hannah R.*Disclosed no conflict of interest.*

Chlebek, Carolyn.....*Disclosed no conflict of interest.*

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

Chou, Siaw Meng.....*Disclosed no conflict of interest.*

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

Christ, Alexander*Disclosed no conflict of interest.*

Christiansen, Blaine A.*Disclosed no conflict of interest.*

Christiansen, Cory L.....*Disclosed no conflict of interest.*

Chu, Constance R......*Disclosed no conflict of interest.*

Chun, Danielle S......*Disclosed no conflict of interest.*

Chung, Yik Lok*Disclosed no conflict of interest.*

Claeyssens, Frederik.....*Disclosed no conflict of interest.*

Clanton, Thomas.....*1: Arthrex, Inc: IP Royalties, Stryker: IP Royalties; 2: Arthrex, Inc: Paid presenter or speaker, Stryker: Paid presenter or speaker; 3B: Arthrex, Inc: Paid Consultant, Stryker: Paid Consultant; 3C: Wright Medical Technology, Inc: Unpaid Consultant; 5: Arthrex, Inc: Research Support, Smith and Nephew: Research Support.*

Clary, Chadd.....*5: DePuy Synthes.*

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

Clough, Nicholas*Disclosed no conflict of interest.*

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

Coffey, Lark L.*Disclosed no conflict of interest.*

Cohen, Samuel A*Disclosed no conflict of interest.*

Colasanti, Christopher*3B: Exactech, Inc.*

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

Coleman, Kendra*Disclosed no conflict of interest.*

Colglazier, Kaitlyn A.....*Disclosed no conflict of interest.*

Collier, Christopher D*Disclosed no conflict of interest.*

Collins, Amber T*Disclosed no conflict of interest.*

Collins, Kelsey*Disclosed no conflict of interest.*

Collins, Kelsey H.*Disclosed no conflict of interest.*

Comer, Brendan.....*Disclosed no conflict of interest.*

Como, Christopher*Disclosed no conflict of interest.*

Conley, Caitlin.....*Disclosed no conflict of interest.*

Conner, Taylor*Disclosed no conflict of interest.*

Conoscenti, Gioacchino*Disclosed no conflict of interest.*

Cook, Bryson.....*Disclosed no conflict of interest.*

Cook, James L1: Arthrex, AthletelQ, Musculoskeletal Transplant Foundation; 2: Arthrex; 3B: Artelon, Arthrex, CONMED Linvatec, Eli Lilly, Schwartz Biomedical, Trupanion, Bioventus; 5: Arthrex, Inc, ConforMIS, Coulter Foundation, DePuy, A Johnson & Johnson Company, , Eli Lilly, Merial, Musculoskeletal Transplant Foundation, National Institutes of Health, Purina, Sites Medical, TissueGen Inc., U.S. Department of Defense, Zimmer-Biomet, GE Healthcare; 7B: Thieme; 8: Journal of Knee Surgery; 9: Midwest Transplant Network, Musculoskeletal Transplant Foundation.

Cook, Ralph.....*Disclosed no conflict of interest.*

Coombs, Dana.....3A: DePuy Synthes.

Cooper, Gwendolyn.....*Disclosed no conflict of interest.*

Coppock, James A......*Disclosed no conflict of interest.*

Corona, Benjamin T.....*Disclosed no conflict of interest.*

Costard, Lara S*Disclosed no conflict of interest.*

Couch, Brandon*Disclosed no conflict of interest.*

Cox, Lewis*Disclosed no conflict of interest.*

Crawford, Rebecca*Disclosed no conflict of interest.*

Crisco, Trey*Disclosed no conflict of interest.*

Crist, Brett D1: globus Medical; 2: Kinetic Concepts, Inc.; 3B: Kinetic Concepts, Inc., Synthes; 4: Orthopaedic Implant Company, RomTech; 5: Synthes; 7B: Springer; 8: Journal of Hip Preservation, Journal of Orthopaedic Trauma, SLACK Incorporated; 9: AO Trauma North America, International Geriatric Fracture Society, Orthopaedic Trauma Association.

Crist, Brett D1: globus Medical; 2: Kinetic Concepts, Inc.; 3B: Kinetic Concepts, Inc., Synthes; 3C: Orthocentric; 4: Orthopaedic Implant Company, RomTech; 5: Synthes; 7B: Springer; 8: Journal of Hip Preservation, Journal of Orthopaedic Trauma, SLACK Incorporated; 9: AO Trauma North America, International Geriatric Fracture Society, Orthopaedic Trauma Association.

Crook, Bryan S*Disclosed no conflict of interest.*

Cross, Michael2: Flexion Therapeutics; 3B: 3M, Depuy, A Johnson & Johnson Company, Exactech, Inc, Flexion Therapeutics, Intellijoint, Smith & Nephew; 4: BICMD, Imagen, Insight Medical, Intellijoint, Parvizi Surgical Innovation; 5: 3M, Exactech, Inc, Intellijoint; 8: Bone and Joint Journal 360, Journal of Orthopaedics and Traumatology, Techniques in Orthopaedics.

Crouch, Dustin L.....*Disclosed no conflict of interest.*

Crowe, Lindsay*Disclosed no conflict of interest.*

Cruz Ayala, Jose A.....*Disclosed no conflict of interest.*

Currier, Barbara H*Disclosed no conflict of interest.*

Currier, John H.....*Disclosed no conflict of interest.*

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

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

Cutcliffe, Hattie C*Disclosed no conflict of interest.*

D Bomgarden, Ryan.....*Disclosed no conflict of interest.*

D'Alessio, Jerry3A: Stryker.

Dadwal, Ushashi C......*Disclosed no conflict of interest.*

Dagneaux, Louis*Disclosed no conflict of interest.*

Daher, Baraa.....*Disclosed no conflict of interest.*

Dakin, Stephanie G.....*Disclosed no conflict of interest.*

Dalal, Sidhant S.....*Disclosed no conflict of interest.*

Dalloul, Christopher E.*Disclosed no conflict of interest.*

Damrath, John*Disclosed no conflict of interest.*

Daneshvarhashjin, Nazanin.....*Disclosed no conflict of interest.*

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

Danyluk, Stephanie T.*Disclosed no conflict of interest.*

Dapaah, Daniel*Disclosed no conflict of interest.*

Darabi, Amir*Disclosed no conflict of interest.*

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

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

Darris, Kayla R*Disclosed no conflict of interest.*

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

Davies, Michael*Disclosed no conflict of interest.*

Davis-Wilson, Hope C*Disclosed no conflict of interest.*

Dayanidhi, Sudarshan*Disclosed no conflict of interest.*

De Bari, Cosimo*Disclosed no conflict of interest.*

de Cesar Netto, Cesar1: Paragon28; 3B: CurveBeam, Nextremity, Ossio, Paragon28, Zimmer; 9: Weightbearing CT International Study Group.

de Cesar Netto, Cesar1: Paragon 28; 2: CurveBeam, Nextremity, Ossio, Paragon 28, Zimmer; 3B: CurveBeam, Nextremity, Ossio, Paragon 28, Zimmer; 4: CurveBeam; 8: Foot and Ankle Clinics; 9: Weightbearing CT International Study Group.

De la Vega, Rodolfo*Disclosed no conflict of interest.*

De Massari, Daniele3A: Stryker.

de Mello, Fabio L*Disclosed no conflict of interest.*

Dearolf, Laurie*Disclosed no conflict of interest.*

Debski, Richard E.*Disclosed no conflict of interest.*

DeCesari, Kayla*Disclosed no conflict of interest.*

DeFrate, Louis E8: American Journal of Sports Medicine, Journal of Biomechanic, Journal of Orthopaedic Research.

DeFrate, Louis E8: American Journal of Sports Medicine, Journal of Biomechanics, Journal of Orthopaedic Research.

DeFrate, Louis E8: Editorial Board - Journal of Orthopaedic Research; Associate Editor - Journal of Biomechanics; Editorial Board - American Journal of Sports Medicine.

DeFrate, Louis E.8: Journal of Biomechanics, Journal of Orthopedic Research, American Journal of Sports Medicine.

Delahoussaye, Abigail*Disclosed no conflict of interest.*

Delco, Michelle L*Disclosed no conflict of interest.*

Demay, Marie B*Disclosed no conflict of interest.*

Deng, Xiang-Hua*Disclosed no conflict of interest.*

Denoeud, Cyprien.....*Disclosed no conflict of interest.*

DePalma, Samuel J*Disclosed no conflict of interest.*

Dervin, Geoffrey3B: MicroPort Orthopedics; 5: MicroPort Orthopedics.

Derwin, Kathleen.....1: Viscus; 3B: Collamedix; 8: JBJS; 9: ORS.

DeWall, Ryan3A: DePuy Synthes.

Dhand, Abhishek P.*Disclosed no conflict of interest.*

Diaz Payno, Pedro*Disclosed no conflict of interest.*

Diaz, Agustin*Disclosed no conflict of interest.*

Dibbern, Kevin*Disclosed no conflict of interest.*

Diedrich, Johanna*Disclosed no conflict of interest.*

Diekman, Brian O*Disclosed no conflict of interest.*

Dietz, Paula*Disclosed no conflict of interest.*

Dillon, Scott*Disclosed no conflict of interest.*

Dines, David1: Biomet.

Dines, Joshua1: arthrex.

Ding, Jing*Disclosed no conflict of interest.*

Ding, Xiang*Disclosed no conflict of interest.*

Ding, Xinchun*Disclosed no conflict of interest.*

Distler, Oliver*Disclosed no conflict of interest.*

Dixon, James E3B: LocateBio; 5: LocateBio.

Dobbins, Despina3A: Peptilogics.

Dobbs, Kathleen*Disclosed no conflict of interest.*

Dolan, Lori A6: Green Sun Medical; 9: International Society on Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT).

Dombrowski, Amanda*Disclosed no conflict of interest.*

Donaldson, William*Disclosed no conflict of interest.*

Dong, Neil*Disclosed no conflict of interest.*

Dorn, Jennifer*Disclosed no conflict of interest.*

Dornan, Grant J.*Disclosed no conflict of interest.*

Dosta Pons, Pere*Disclosed no conflict of interest.*

Doty, Stephen*Disclosed no conflict of interest.*

Doud, Emma*Disclosed no conflict of interest.*

Drain, Nicholas P*Disclosed no conflict of interest.*

Drazan, John F*Disclosed no conflict of interest.*

Drew, Jacob M*Disclosed no conflict of interest.*

Drissi, Hicham*Disclosed no conflict of interest.*

Duan, Xin*Disclosed no conflict of interest.*

Dubard, Philippe3A: Blue-Ortho.

Dudakovic, Amel*Disclosed no conflict of interest.*

Dudeck, Anne*Disclosed no conflict of interest.*

Dudli, Stefan*Disclosed no conflict of interest.*

Dunkley, Ian R.3A: Medtronic; 4: Medtronic.

Dunning, Mark J.*Disclosed no conflict of interest.*

Durst, Caleb*Disclosed no conflict of interest.*

Duryea, Jeffrey*Disclosed no conflict of interest.*

Dussik, Christopher M*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*Disclosed no conflict of interest.*

Easley, Jeremiah*Disclosed no conflict of interest.*

Ebata, Taku*Disclosed no conflict of interest.*

Ebaugh, Michael P*Disclosed no conflict of interest.*

Eberlin, Christopher T.*Disclosed no conflict of interest.*

Eckels, Jason P*Disclosed no conflict of interest.*

Edwards, David*Disclosed no conflict of interest.*

Ehrhart, Nicole3B: Onkos Surgical, Ripple Neuromed.

Eisenbies, Zachary*Disclosed no conflict of interest.*

Eisner, Lainie E*Disclosed no conflict of interest.*

El Jordi, Omar*Disclosed no conflict of interest.*

El Touny, Ehab*Disclosed no conflict of interest.*

Elbarbary, Reyad*Disclosed no conflict of interest.*

Elemento, Olivier*Disclosed no conflict of interest.*

Elhabian, Shireen Y *Disclosed no conflict of interest.*

Elias, John J *Disclosed no conflict of interest.*

Eliasberg, Claire *Disclosed no conflict of interest.*

Ellermann, Jutta M. *Disclosed no conflict of interest.*

Ellingsen Husebye, Elisabeth..... *Disclosed no conflict of interest.*

Elliott, Dawn *Disclosed no conflict of interest.*

Ellis, Olivia..... *Disclosed no conflict of interest.*

Elsaid, Khaled *Disclosed no conflict of interest.*

Elsayed, Abdullah G..... *Disclosed no conflict of interest.*

Elwell, Josie A 3A: Exactech, Inc.

Ely, Erica *Disclosed no conflict of interest.*

Emerzian, Shannon R..... *Disclosed no conflict of interest.*

Endo, Makoto *Disclosed no conflict of interest.*

Engebretsen, Lars 3B: Arthrex; 4: iBalance; 5: Arthrex, Biomet, Smith and Nephew; 7A: Arthrex; 7B: BJSM; 8: Acta Orthopaedica, JBJS, KSSTA; 9: ESSKA, AOSSM, ISAKOS.

Engellau, Jacob *Disclosed no conflict of interest.*

Englander, Zoe A..... *Disclosed no conflict of interest.*

Englander, Zoe A. *Disclosed no conflict of interest.*

Entezari, Vahid..... 3B: DJO; 5: DJO.

Erdemir, Ahmet *Disclosed no conflict of interest.*

Erickson, Bradley *Disclosed no conflict of interest.*

Ersland, Erik *Disclosed no conflict of interest.*

Eskandari, Amir Hossein..... *Disclosed no conflict of interest.*

Eskelinen, Atte S *Disclosed no conflict of interest.*

Esparza, Mary C *Disclosed no conflict of interest.*

Espinoza Orias, Alejandro A..... *Disclosed no conflict of interest.*

Esposito, John G *Disclosed no conflict of interest.*

Evans, Christopher..... 1: 4, own stock in Genascence Inc.

Evans, Mary K *Disclosed no conflict of interest.*

Eveld, Maura E..... *Disclosed no conflict of interest.*

Fahey, Megan J*Disclosed no conflict of interest.*

Fainor, Matthew*Disclosed no conflict of interest.*

Fairwood, Tyler3A: Medline.

Faith, Hayden*Disclosed no conflict of interest.*

Fallavollita, Pascal*Disclosed no conflict of interest.*

Fan, Catherine*Disclosed no conflict of interest.*

Fan, Wen3A: Exactech.

Fang, Fei*Disclosed no conflict of interest.*

Farrell, Easton*Disclosed no conflict of interest.*

Farrow, Emily*Disclosed no conflict of interest.*

Farrow, Lutul5: OREF; 8: AJSM, VJSM.

Farrow, Lutul D*Disclosed no conflict of interest.*

Farshad-Amacker, Nadja*Disclosed no conflict of interest.*

Feeley, Brian*Disclosed no conflict of interest.*

Feeley, Brian4: Bioniks, Kaliber; 5: Stryker; 8: JSES, CRMSM.

Feeley, Brian T*Disclosed no conflict of interest.*

Felton, Olivia*Disclosed no conflict of interest.*

Fenstad, Anne Marie*Disclosed no conflict of interest.*

Fercher, David*Disclosed no conflict of interest.*

Ferguson, Ellie*Disclosed no conflict of interest.*

Fielding, Claire*Disclosed no conflict of interest.*

Fields, Aaron*Disclosed no conflict of interest.*

Fields, Aaron J*Disclosed no conflict of interest.*

Fink, Diane*Disclosed no conflict of interest.*

Finnila, Mikko*Disclosed no conflict of interest.*

Fisch, Kathleen M*Disclosed no conflict of interest.*

Fischer, Verena*Disclosed no conflict of interest.*

Fisher, Matthew B*Disclosed no conflict of interest.*

Fithian, Donald C*Disclosed no conflict of interest.*

Flood, Paris*Disclosed no conflict of interest.*

Florea, Alexandru*Disclosed no conflict of interest.*

Fontana, Mark*Disclosed no conflict of interest.*

Foody, Jacqueline N*Disclosed no conflict of interest.*

Fossum, Brad*Disclosed no conflict of interest.*

Foucher, Kharma*Disclosed no conflict of interest.*

Frankle, Mark1: DJO Surgical; 2: DJO Surgical; 3B: DJO Surgical; 5: DJO Surgical; 7A: DJO Surgical; 9: ASES.

Freedman, Benjamin R*Disclosed no conflict of interest.*

Freeman, Fiona*Disclosed no conflict of interest.*

Freeman, Fiona E*Disclosed no conflict of interest.*

Fritz, Bryan.....3A: DePuy Synthes.

Frondelius, Tuomas*Disclosed no conflict of interest.*

Fu, Chengcheng*Disclosed no conflict of interest.*

Fu, Freddie8: AJSM, KSSTA; 9: ISAKOS.

Fu, Freddie H.....*Disclosed no conflict of interest.*

Fujimoto, Tara*Disclosed no conflict of interest.*

Fujino, Keitaro*Disclosed no conflict of interest.*

Fujiwara, Toshifumi.....*Disclosed no conflict of interest.*

Fung, Ashley*Disclosed no conflict of interest.*

Fung, Ashley K*Disclosed no conflict of interest.*

Fung, Edward*Disclosed no conflict of interest.*

Funk, Grahmm A.....*Disclosed no conflict of interest.*

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

Furukawa, Takahiro.....*Disclosed no conflict of interest.*

Gabrielli, Alexandra.....*Disclosed no conflict of interest.*

Gacaferi, Hamez*Disclosed no conflict of interest.*

Gadomski, Benjamin*Disclosed no conflict of interest.*

Gadomski, Stephen*Disclosed no conflict of interest.*

Gaffney, Brecca M. M.....*Disclosed no conflict of interest.*

Gagnon, Denis*Disclosed no conflict of interest.*

Galanter, Eytan*Disclosed no conflict of interest.*

Galarraga, Jonathan*Disclosed no conflict of interest.*

Galarraga, Jonathan H*Disclosed no conflict of interest.*

Gale, Tom*Disclosed no conflict of interest.*

Gandhi, Roshni*Disclosed no conflict of interest.*

Gao, Kenneth T*Disclosed no conflict of interest.*

Gao, Madeleine A*Disclosed no conflict of interest.*

Gao, Matthew*Disclosed no conflict of interest.*

Gao, Qi*Disclosed no conflict of interest.*

Garcia, Carolina*Disclosed no conflict of interest.*

Garcia, Steven*Disclosed no conflict of interest.*

Garcia-Garcia, Andres*Disclosed no conflict of interest.*

Garlapaty, Ashwin*Disclosed no conflict of interest.*

Garry, Joseph*Disclosed no conflict of interest.*

Gatterer, Mary C*Disclosed no conflict of interest.*

Ge, Jonathan*Disclosed no conflict of interest.*

Gebhard, Florian*Disclosed no conflict of interest.*

Gehret, Paul M.*Disclosed no conflict of interest.*

Gempfer, Carina*Disclosed no conflict of interest.*

Getty, Patrick J*Disclosed no conflict of interest.*

Ghezelbash, Farshid*Disclosed no conflict of interest.*

Ghivizzani, Steven4: Owns stock in Genascence Ins.

Gibbons, Michael*Disclosed no conflict of interest.*

Gibson, Margaret*Disclosed no conflict of interest.*

Gil, Joseph A*Disclosed no conflict of interest.*

Gilbert, Jeremy L1: Royalties received from Syracuse University; 3B: Paid Consultant: Owner, Syracuse Bio-Materials Company, Zimmer Biomet, Smith and Nephew, Stryker Orthopedics, Bausch and Lomb; 5: Research/Institutional Support: Clemson University receives research support from DePuy Synthes and Bayer, Inc.; 7B: Honorarium from J Wiley and Sons; 8: Editor-in-Chief, Journal of Biomedical Materials Research – Part B; 9: Member, Council of the Society For Biomaterials.

Giles, Joshua W*Disclosed no conflict of interest.*

Gillespie, Callan M1: Cleveland Clinic, simVITRO.

Gionet-Gonzales, Marissa A*Disclosed no conflict of interest.*

Gira, Emma*Disclosed no conflict of interest.*

Glaeser, Juliane*Disclosed no conflict of interest.*

Glasser, Morgan*Disclosed no conflict of interest.*

Glimm, Matthew*Disclosed no conflict of interest.*

Gobbato, Bruno*3B: Exactech, Inc.*

Godin, Jonathan*1: Arthrex.*

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

Gokani, Vishal*Disclosed no conflict of interest.*

Gokul, Deeptha*Disclosed no conflict of interest.*

Gold, Michael*Disclosed no conflict of interest.*

Gold, Richard*Disclosed no conflict of interest.*

Goldman, Sam*Disclosed no conflict of interest.*

Goldring, Mary*Disclosed no conflict of interest.*

Goldring, Steven*4: Steven is cofounder of Ensign Pharmaceutical.*

Gomez Alvarado, Francisco*Disclosed no conflict of interest.*

Gomez, Francisco*Disclosed no conflict of interest.*

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

Gonzalez, Mark*Disclosed no conflict of interest.*

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

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

Goodman, Stuart*Disclosed no conflict of interest.*

Gormley, Conor*Disclosed no conflict of interest.*

Goto, Hideyuki*Disclosed no conflict of interest.*

Gottardi, Riccardo*Disclosed no conflict of interest.*

Grad, Sibylle*Disclosed no conflict of interest.*

Granade, Charles M.*Disclosed no conflict of interest.*

Greaser, Michael C*Disclosed no conflict of interest.*

Green, Nicola H.*Disclosed no conflict of interest.*

Green, Samuel*Disclosed no conflict of interest.*

Greenacre, Cheryl B.....*Disclosed no conflict of interest.*

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

Greenfield, Ed*Disclosed no conflict of interest.*

Greising, Sarah.....5: SMG is a Sub-Award PI on DoD FUned SBIR to the Fibraling Corp; 8: Associate Editor for Connective Tissue Research.

Greising, Sarah M8: Associate Editor for Connective Tissue Research.

Gresham, Robert*Disclosed no conflict of interest.*

Griffin, Katherine.....*Disclosed no conflict of interest.*

Griffin, Lisa.....*Disclosed no conflict of interest.*

Griffin, Tim.....8: Receives payment as an Associate Editor of the Journal Osteoarthritis and Cartilage.

Grinstaff, Mark W.....*Disclosed no conflict of interest.*

Grodzinsky, Alan J8: Osteoarthritis and Cartilage.

Gui, Chang.....*Disclosed no conflict of interest.*

Gui, Tao.....*Disclosed no conflict of interest.*

Guidetti, Martina.....*Disclosed no conflict of interest.*

Guilak, Farshid3A: Cytex; 4: Cytex.

Guilak, Farshid3A: Cytexv; 4: Cytex.

Guilak, Farshid*Disclosed no conflict of interest.*

Guilak, Farshid3A: Cytex, Inc.; 4: Cytex, Inc.

Guler, Selcan.....*Disclosed no conflict of interest.*

Gullbrand, Sarah E.....*Disclosed no conflict of interest.*

Gulotta, Lawrence1: Exactech,Inc.

Gultian, Kirstene.....*Disclosed no conflict of interest.*

Gunda, Bhavana*Disclosed no conflict of interest.*

Guo, Dandan.....*Disclosed no conflict of interest.*

Guo, Wendi.....*Disclosed no conflict of interest.*

Guo, Xiangdong Edward.....*Disclosed no conflict of interest.*

Guo, Xiaojie*Disclosed no conflict of interest.*

Gupta, Munish.....*Disclosed no conflict of interest.*

Gupta, Puranjay.....*Disclosed no conflict of interest.*

Gustav, Marco*Disclosed no conflict of interest.*

Guthrie, Timothy*Disclosed no conflict of interest.*

Habibi, Yasamin*Disclosed no conflict of interest.*

Haffner-Luntzer, Melanie*Disclosed no conflict of interest.*

Haffner-Luntzer, Melanie8: JOR, Frontiers; 9: ORS ISFR, ECTS.

Hageman, Kara A*Disclosed no conflict of interest.*

Haghighatnejad, Mehrnoush*Disclosed no conflict of interest.*

Haglund, Lisbet*Disclosed no conflict of interest.*

Hahn, Alyssa K.*Disclosed no conflict of interest.*

Hall, Patrick T*Disclosed no conflict of interest.*

Haller, Justin3B: NewClip Technics, Osteocentric, Stryker.

Halvorson, Ryan T*Disclosed no conflict of interest.*

Hamada, Moustafa A*Disclosed no conflict of interest.*

Hamasaki, Masanari*Disclosed no conflict of interest.*

Hamrick, Mark W*Disclosed no conflict of interest.*

Han, Biao*Disclosed no conflict of interest.*

Han, Lin*Disclosed no conflict of interest.*

Han, Woojin M.*Disclosed no conflict of interest.*

Hankenson, Kurt*Disclosed no conflict of interest.*

Hann, Alice J*Disclosed no conflict of interest.*

Hansen, Victoria*Disclosed no conflict of interest.*

Haqqi, Tariq M*Disclosed no conflict of interest.*

Harada, Garrett*Disclosed no conflict of interest.*

Harasymowicz, Natalia S*Disclosed no conflict of interest.*

Harding, Amy T*Disclosed no conflict of interest.*

Hardwick-Morris, Max3A: 360 Med Care.

Harrington, Matthew J*Disclosed no conflict of interest.*

Harris, Charles A*Disclosed no conflict of interest.*

Harris, Michael D*Disclosed no conflict of interest.*

Hasegawa, Masahiro*Disclosed no conflict of interest.*

Hassan, Mahad*Disclosed no conflict of interest.*

Hauck, Stefanie*Disclosed no conflict of interest.*

Haudenschild, Anne K*Disclosed no conflict of interest.*

Haudenschild, Dominik R.4: Tesio Pharmaceutical.

Havasy, Janice*Disclosed no conflict of interest.*

Havlioglu, Necat*Disclosed no conflict of interest.*

Hawse, Gresin*Disclosed no conflict of interest.*

Haytmanek Jr., Thomas2: Arthrex, Inc: Paid presenter or speaker.

He, Yi*Disclosed no conflict of interest.*

Healy, Kevin*Disclosed no conflict of interest.*

Heckelman, Lauren N*Disclosed no conflict of interest.*

Heckmann, Nathanael3B: Intellijoint Surgical, MicroPort Orthopaedics; 4: Intellijoint Surgical;
9: AAOS, AJRR.

Hedge, Vishal*Disclosed no conflict of interest.*

Heebner, Nick*Disclosed no conflict of interest.*

Heggli, Irina*Disclosed no conflict of interest.*

Heidenreich, Elizabeth*Disclosed no conflict of interest.*

Heldreth, Mark A.3A: DePuy Synthes; 4: Johnson and Johnson.

Herger, Nick*Disclosed no conflict of interest.*

Hermus, Joris P9: European Foot and Ankle Society.

Herrera, Lizeth3A: Stryker; 4: Stryker.

Hershey, Maxwell*Disclosed no conflict of interest.*

Hertrich, Lisa*Disclosed no conflict of interest.*

Herzog, Walter*Disclosed no conflict of interest.*

Heuschneider, Hannah*Disclosed no conflict of interest.*

Heveran, Chelsea*Disclosed no conflict of interest.*

Higgins, Thomas*Disclosed no conflict of interest.*

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

Hirata, Hirohito*Disclosed no conflict of interest.*

Hirose, Takeshi*Disclosed no conflict of interest.*

Hiroyuki, Tachi*Disclosed no conflict of interest.*

Hishimura, Ryosuke*Disclosed no conflict of interest.*

Hixon, Katie R*Disclosed no conflict of interest.*

Ho, Jason2: DJO; 5: Zimmer Biomet; 6: Liberty Surgical.

Hobein, Alexander*Disclosed no conflict of interest.*

Hodgkinson, Tom*Disclosed no conflict of interest.*

Hoey, David*Disclosed no conflict of interest.*

Hoffman, Daniel B*Disclosed no conflict of interest.*

Hogan, MaCalus8: AAOS, AOFAS, BOS.

Holder, Jana*Disclosed no conflict of interest.*

Holguin, Nilsson*Disclosed no conflict of interest.*

Holloway, Matthew*Disclosed no conflict of interest.*

Homan, Kentaro*Disclosed no conflict of interest.*

Hopster, Klaus*Disclosed no conflict of interest.*

Horton, Jason A*Disclosed no conflict of interest.*

Houske, Eden*Disclosed no conflict of interest.*

Hove, Roy*Disclosed no conflict of interest.*

Howe, Danielle*Disclosed no conflict of interest.*

Howe, Tet Sen*Disclosed no conflict of interest.*

Hsu, Erin*Disclosed no conflict of interest.*

Hsu, Wellington*Disclosed no conflict of interest.*

Hu, Daniel*Disclosed no conflict of interest.*

Hu, Yajing*Disclosed no conflict of interest.*

Huang, Alice*Disclosed no conflict of interest.*

Huang, Dave*Disclosed no conflict of interest.*

Huang, David Huang B3A: Peptilogics.

Huang, Elijah Ejun*Disclosed no conflict of interest.*

Huang, Muyin*Disclosed no conflict of interest.*

Huang, Yuming*Disclosed no conflict of interest.*

Huard, Charles*Disclosed no conflict of interest.*

Huard, Johnny.....1: Cook Myosite; 9: Orthopaedic Research Society.

Huard, Johnny.....1: Cook Myosite Inc.; 9: Orthopaedic Research Society.

Huddleston, James3B: Exactech; 7A: Exactech.

Huebsch, Nathaniel*Disclosed no conflict of interest.*

Hughes, Jonathan*Disclosed no conflict of interest.*

Hunda, Edward T*Disclosed no conflict of interest.*

Hunt, Emily*Disclosed no conflict of interest.*

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

Hussein, Nazar*Disclosed no conflict of interest.*

Hux, Nicholas*Disclosed no conflict of interest.*

Hyakumachi, Takahiko*Disclosed no conflict of interest.*

Hyre, Nathan*Disclosed no conflict of interest.*

Iannotti, Joseph1: Viscus, Depuy, Arthrex, Tornier, DJO, 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.*

Iatridis, James C.....*Disclosed no conflict of interest.*

Iglseider, Bernhard*Disclosed no conflict of interest.*

Ignatius, Anita*Disclosed no conflict of interest.*

Iida, Keiichiro*Disclosed no conflict of interest.*

Illien-Junger, Svenja*Disclosed no conflict of interest.*

Imagama, Shiro.....*Disclosed no conflict of interest.*

Imhauser, Carl*Disclosed no conflict of interest.*

Imrey, Peter3B: GE Healthcare; 8: JASN.

Inclan, Paul*Disclosed no conflict of interest.*

Indana, Dhiraj.....*Disclosed no conflict of interest.*

Innocenti, Bernardo*Disclosed no conflict of interest.*

Inoue, Jumpei*Disclosed no conflict of interest.*

Inoue, Nozomu*Disclosed no conflict of interest.*

Inui, Atsuyuki.....*Disclosed no conflict of interest.*

Ip, Margaret.....*Disclosed no conflict of interest.*

Irie, Tohru*Disclosed no conflict of interest.*

Irie, Tomoyo.....*Disclosed no conflict of interest.*

Iriondo, Claudia*Disclosed no conflict of interest.*

Irisk, Debra*Disclosed no conflict of interest.*

Irwin, Mavis*Disclosed no conflict of interest.*

Isaksson, Hanna.....*Disclosed no conflict of interest.*

Isales, Carlos M.....*Disclosed no conflict of interest.*

Ishihara, Shingo*Disclosed no conflict of interest.*

Ishikawa, Yoko.....*Disclosed no conflict of interest.*

Ismaily, Sabir K*Disclosed no conflict of interest.*

Ivashkiv, Lionel*Disclosed no conflict of interest.*

Ivashkiv, Lionel B3C: Eli Lilly and Company.

Ivashkiv, Lionel B3C: Eli Lilly, unpaid consultant.

Iwasaki, Koji.....*Disclosed no conflict of interest.*

Iwasaki, Koji.....5: Olympus Terumo Biomaterials Corp.

Iwasaki, Norimasa*Disclosed no conflict of interest.*

Iwata, Akira*Disclosed no conflict of interest.*

J. Hall, Deborah*Disclosed no conflict of interest.*

Jacobs, Cale.....5: Flexion Therapeutics, Smith & Nephew; 8: VJSM.

Jacobsen, Timothy.....*Disclosed no conflict of interest.*

Jagtap, Jaidip*Disclosed no conflict of interest.*

Jahandar, Amirhossein*Disclosed no conflict of interest.*

Jain, Era*Disclosed no conflict of interest.*

Jakubowitz, Eike*Disclosed no conflict of interest.*

James, Aaron3B: Lifesprout LLC, Novadip LLC; 8: Bone Research, American Journal of Pathology.

James, Aaron W1: Novadip Biosciences, Lifesprout LLC.

James, Trejon.....*Disclosed no conflict of interest.*

Jancuska, Jeffrey M*Disclosed no conflict of interest.*

Janssen, Dennis*Disclosed no conflict of interest.*

Jay, Gregory4: Equity stake in Lubris LLC.

Jeffers, Jonathan R.T.Disclosed no conflict of interest.

Jensen, AndrewDisclosed no conflict of interest.

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

Jevsevar, Kori C.....Disclosed no conflict of interest.

Ji, PingDisclosed no conflict of interest.

Jia, ZhenshanDisclosed no conflict of interest.

Jiang, Wensen.....4: Moderna, Johnson & Johnson, Bluebird Bio.

Jiang, XiDisclosed no conflict of interest.

Jiang, YucanDisclosed no conflict of interest.

Jin, LiDisclosed no conflict of interest.

Jin, Yuxuan.....Disclosed no conflict of interest.

Jo, Woo-LamDisclosed no conflict of interest.

Joeng, Kyu-Sang.....Disclosed no conflict of interest.

Johannesdottir, Fjola.....Disclosed no conflict of interest.

Johnson, Casey P.Disclosed no conflict of interest.

Johnson, ChristopherDisclosed no conflict of interest.

Johnson, Darren3B: Smith & Nephew; 5: Smith & Nephew; 7A: Smith & Nephew; 7B: Elsevier; 8: SLACK, Orthopedics, Orthopedics Today, J Surg Orthop Advances, Sports Medicine & Arthroscopy Review; 9: AOSSM, SOA.

Johnson, DenaeDisclosed no conflict of interest.

Johnson, GemmaDisclosed no conflict of interest.

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

Johnson, Tony.....Disclosed no conflict of interest.

Johnston, JeffreyDisclosed no conflict of interest.

Johnston, Nancy A.Disclosed no conflict of interest.

Johnston, ShiraDisclosed no conflict of interest.

Johnston, Shira N.....Disclosed no conflict of interest.

Jones, DakotaDisclosed no conflict of interest.

Jones, GarethDisclosed no conflict of interest.

Joseph, KatherineDisclosed no conflict of interest.

Joukar, Amin*Disclosed no conflict of interest.*

Jun, Bong-Jae1: Viscus.

June, Ron*Disclosed no conflict of interest.*

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

Jurisson, Mary*Disclosed no conflict of interest.*

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

Kacker, Kunaal*Disclosed no conflict of interest.*

Kadirkamanathan, Visakan*Disclosed no conflict of interest.*

Kahle, Elizabeth R.*Disclosed no conflict of interest.*

Kahlenberg, Cynthia*Disclosed no conflict of interest.*

Kahn, Ryan.....*Disclosed no conflict of interest.*

Kajabi, Abdul Wahed.....*Disclosed no conflict of interest.*

Kaji, Deepak.....*Disclosed no conflict of interest.*

Kalbitz, Miriam*Disclosed no conflict of interest.*

Kalluri, Anita*Disclosed no conflict of interest.*

Kamal, Fadia*Disclosed no conflict of interest.*

Kamal, Robin.....*Disclosed no conflict of interest.*

Kamalitdinov, Timur B.....*Disclosed no conflict of interest.*

Kamathewatta, Nilan JB.....*Disclosed no conflict of interest.*

Kambrath, Anuradha V*Disclosed no conflict of interest.*

Kanahori, Masaya.....*Disclosed no conflict of interest.*

Kanai, Satoshi*Disclosed no conflict of interest.*

Kane, Gillian.....*Disclosed no conflict of interest.*

Kaneda, Giselle*Disclosed no conflict of interest.*

Kang, Ho Won*Disclosed no conflict of interest.*

Kanim, Linda4: Abbott, Moderna, Medtronic.

Kanjiya, Shrey*Disclosed no conflict of interest.*

Kanto, Ryo*Disclosed no conflict of interest.*

Karner, Courtney M.....*Disclosed no conflict of interest.*

Karnik, Sonali.....*Disclosed no conflict of interest.*

Karunaseelan, Kabelan J*Disclosed no conflict of interest.*

Karuppa Gounder, Vengadeshprabhu *Disclosed no conflict of interest.*

Katarincic, Julia A*Disclosed no conflict of interest.*

Katarincic, Julie*Disclosed no conflict of interest.*

Kate Evans, Mary*Disclosed no conflict of interest.*

Kato, Koji.....*Disclosed no conflict of interest.*

Kato, Tatsuo.....*Disclosed no conflict of interest.*

Katz, Dakota B.*Disclosed no conflict of interest.*

Kaufman, Kenton R*Disclosed no conflict of interest.*

Kauppinen, Sami.....*Disclosed no conflict of interest.*

Kaur, Asees*Disclosed no conflict of interest.*

Kawakami, Kensaku*Disclosed no conflict of interest.*

Kee, James*Disclosed no conflict of interest.*

Keeney, James A*3B: DePuy, A Johnson & Johnson Company, Flexion Therapeutics, Heron Therapeutics; 8: Journal of Hip Surgery, Journal of Knee Surgery, Orthopedics; 9: American Association of Hip and Knee Surgeons, American Orthopaedic Association, Mid-American Orthopaedic Association, Missouri State Orthopaedic Association.*

Keith Lang, Sinaia*Disclosed no conflict of interest.*

Kelly, Daniel*Disclosed no conflict of interest.*

Kelly, Daniel*5: Johnson & Johnson.*

Kelly, Daniel J......*Disclosed no conflict of interest.*

Kelly, Domhnall C*Disclosed no conflict of interest.*

Kelly, James*Disclosed no conflict of interest.*

Kelly, Michael*Disclosed no conflict of interest.*

Kent, Robert N*Disclosed no conflict of interest.*

Keravala, Annahita*1: 4, Owns stock in Genasence.*

Kernkamp, Willem Alexander Alexander *Disclosed no conflict of interest.*

Khandha, Ashutosh*Disclosed no conflict of interest.*

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

Khatib, Nidal S*Disclosed no conflict of interest.*

Khattab, Karim.....*Disclosed no conflict of interest.*

Kheir, Nadim*Disclosed no conflict of interest.*

Kiapour, Ata*3B: MIACH Orthopaedics; 8: BMC Musculoskeletal Disorders, American Journal of Sports Medicine.*

Kiapour, Ata M*3B: MIACH Orthopaedics; 8: BMC Musculoskeletal Disorders, American Journal of Sports Medicine.*

Kida, Hiroaki*Disclosed no conflict of interest.*

Killaars, Anouk*Disclosed no conflict of interest.*

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

Killian, Megan L*9: ORS WLF member.*

Kim, Dae-Yoo*Disclosed no conflict of interest.*

Kim, Harry*Disclosed no conflict of interest.*

Kim, Hubert*Disclosed no conflict of interest.*

Kim, Minwook*Disclosed no conflict of interest.*

Kim, Sung Yeon*Disclosed no conflict of interest.*

Kim, Tae Won B.*Disclosed no conflict of interest.*

Kim, Young Jo*Disclosed no conflict of interest.*

Kim, Young-Jo*Disclosed no conflict of interest.*

Kimia, Amir*Disclosed no conflict of interest.*

Kimura, Atsushi*Disclosed no conflict of interest.*

Kim-Wang, Sophia Y*Disclosed no conflict of interest.*

King, Shane T*Disclosed no conflict of interest.*

Kittaka, Mizuho*Disclosed no conflict of interest.*

Klatt, Brian*2: Smith and Nephew, Stryker; 3B: Smith and Nephew, Stryker, Zimmer; 7A: Smith and Nephew, Stryker, Zimmer, Depuy; 7B: SLACK Inc, Elsevier.*

Klatt, Brian*2: Smith and Nephew, Stryker; 3B: Smith and Nephew, Stryker, Zimmer; 7A: Smith and Nephew, Stryker, Zimmer, Depuy; 7B: SLACK Incorporated and Elsevier.*

Klemsz, Michael J.*Disclosed no conflict of interest.*

Klemt, Christian*Disclosed no conflict of interest.*

Kleweno, Conor*Disclosed no conflict of interest.*

Kloser, Heidi*Disclosed no conflict of interest.*

Knights, Alexander*Disclosed no conflict of interest.*

Knudson, Cheryl*Disclosed no conflict of interest.*

Knudson, Warren*Disclosed no conflict of interest.*

Knutson, Cassidy*Disclosed no conflict of interest.*

Ko, Jiawei Kevin*3B: Exactech, Inc.*

Koch, Kevin M*5: GE Healthcare.*

Koch, Kevin M*1: GE Healthcare; 5: GE Healthcare, Siemens Healthcare.*

Koff, Matthew*Disclosed no conflict of interest.*

Koff, Matthew F*5: GE Healthcare.*

Koh, Esther*Disclosed no conflict of interest.*

Koh, Joyce Suang Bee*Disclosed no conflict of interest.*

Kojima, Toshihisa*Disclosed no conflict of interest.*

Kokabu, Terufumi*Disclosed no conflict of interest.*

Kolin, David*Disclosed no conflict of interest.*

Komaravolu, Ravi*Disclosed no conflict of interest.*

Komistek, Richard D.*1: DePuy Synthes; 3B: DePuy Synthes.*

Kondo, Eiji*Disclosed no conflict of interest.*

Konnaris, Maxwell*Disclosed no conflict of interest.*

Kontaxis, Andreas*Disclosed no conflict of interest.*

Koo, Seungbum*Disclosed no conflict of interest.*

Korcari, Antonion*Disclosed no conflict of interest.*

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

Korn, Claudia*Disclosed no conflict of interest.*

Kosinski, Andrzej S.*Disclosed no conflict of interest.*

Kosinski, Lindsay R*Disclosed no conflict of interest.*

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

Kosonen, Joonas P*Disclosed no conflict of interest.*

Kowalski, Erik*Disclosed no conflict of interest.*

Koyama, Eiki*Disclosed no conflict of interest.*

Koyoma, Eiki*Disclosed no conflict of interest.*

Krähenbühl, Nicola*Disclosed no conflict of interest.*

Krater, Timothy*Disclosed no conflict of interest.*

Kratzer, Avery L*Disclosed no conflict of interest.*

Krekeler, Gwendalyn*Disclosed no conflict of interest.*

Kreviazuk, Cheryl*Disclosed no conflict of interest.*

Kropf, Michael*Disclosed no conflict of interest.*

Kroupa, Kimberly R.*Disclosed no conflict of interest.*

Krug, Roland*Disclosed no conflict of interest.*

Kucharik, Michael P*Disclosed no conflict of interest.*

Kukushliev, Vasil V*Disclosed no conflict of interest.*

Kulm, Scott*Disclosed no conflict of interest.*

Kulzhanova, Gulzada*Disclosed no conflict of interest.*

Kumar, Sumar*Disclosed no conflict of interest.*

Kumar, Vikas3A: KenSci, Inc.

Kuntz, Andrew F5: Integra Lifesciences, Orthofix, Inc., FX Shoulder; 9: Orthopaedic Research Society, Phoenix Shoulder Society, American Shoulder and Elbow Surgeons, American Board of Orthopaedic Surgery.

Kuo, Catherine K*Disclosed no conflict of interest.*

Kupratis, Meghan*Disclosed no conflict of interest.*

Kuroda, Ryosuke*Disclosed no conflict of interest.*

Kuroiwa, Tomoyuki*Disclosed no conflict of interest.*

Kurylo, Christopher M*Disclosed no conflict of interest.*

Kushioka, Junichi*Disclosed no conflict of interest.*

Kuttler, Andreas5: Novartis.

Kutzarov, Kamen*Disclosed no conflict of interest.*

Kuyl, Emile-Victor*Disclosed no conflict of interest.*

Kwoh, C. Kent*Disclosed no conflict of interest.*

kwon, hyuk-kwon*Disclosed no conflict of interest.*

Kwon, So Hyeon*Disclosed no conflict of interest.*

Kwon, Soon-Yong*Disclosed no conflict of interest.*

Kwon, Young-Min*Disclosed no conflict of interest.*

La Carrubba, Vincenzo*Disclosed no conflict of interest.*

La Fontaine, Javier*Disclosed no conflict of interest.*

Labaze, Dukens*Disclosed no conflict of interest.*

Lachmann, Alexander*Disclosed no conflict of interest.*

Ladd, Amy*Disclosed no conflict of interest.*

Lake, Spencer*Disclosed no conflict of interest.*

Lake, Spencer P*Disclosed no conflict of interest.*

Lalevee, Matthieu*Disclosed no conflict of interest.*

Lalone, Emily*Disclosed no conflict of interest.*

Lama, Christopher J*Disclosed no conflict of interest.*

Lammlin, Lindsey*Disclosed no conflict of interest.*

Lamontagne, Mario5: MicroPort Orthopedics.

Lane, John G*Disclosed no conflict of interest.*

Langhans, Mark*Disclosed no conflict of interest.*

Langthaler, Patrick*Disclosed no conflict of interest.*

Lanschaft, Assaf*Disclosed no conflict of interest.*

Lansdown, Drew3B: Vericel; 5: Anthrex, Evolution Surgical; 9: Arthroscopy Association of North America, American Orthopaedic Society for Sports Medicine.

Lanting, Brent1: DePuy, IdealFit Spacer Solutions, IntelliJoint, Smith & Nephew, Stryker, Zimmer.

Lanzetta, Nicholas*Disclosed no conflict of interest.*

Larivière, Christian*Disclosed no conflict of interest.*

LaRocca, Tom*Disclosed no conflict of interest.*

Larochette, Nathanael*Disclosed no conflict of interest.*

Larson, Jill*Disclosed no conflict of interest.*

Lartey, Richard*Disclosed no conflict of interest.*

Latimer, July*Disclosed no conflict of interest.*

Lattanza, Lisa2: Acumed; 3B: Acumed.

Lattermann, Christian3B: Samumed, Vericel, Joint Restoration Foundation; 8: Cartilage, J Sports Physiology, The Knee, OJSM; 9: Biologic Association, ICRS.

Lattermann, Christian3B: Vericel; 8: CartilageJ, Sports Physiology, The Knee, Orthopaedic Journal of Sports Medicine, (Biologic Association; 9: International Cartilage Repair Society, Joint Restoration Foundation.

Lau, Yian Khai*Disclosed no conflict of interest.*

Laux, Christoph*Disclosed no conflict of interest.*

Lawrence, John T.*Disclosed no conflict of interest.*

Layher, Frank*Disclosed no conflict of interest.*

Lazar, Ann A.*Disclosed no conflict of interest.*

Le Maitre, Christine L*1: Flexion Therapeutics; 3B: Flexion Therapeutics; 5: Flexion Therapeutics; 7A: Flexion Therapeutics; 8: JOR Spine, Scientific Reports; 9: ORS Spine section, SBPR.*

Leach, Kent*8: I am Editor-in-Chief of the Journal of Biomedical Materials Research Part A.*

Leary, Emily V*7B: BMJ Journals; 8: BMJ Journals, Thieme.*

Lee, Dong Yeon*Disclosed no conflict of interest.*

Lee, Dong-Oh*Disclosed no conflict of interest.*

Lee, Erin CS*Disclosed no conflict of interest.*

Lee, Fei San*Disclosed no conflict of interest.*

Lee, Francis*Disclosed no conflict of interest.*

Lee, Hongpyo*Disclosed no conflict of interest.*

Lee, Hwaran*Disclosed no conflict of interest.*

Lee, Joon*Disclosed no conflict of interest.*

Lee, Seunghwan*Disclosed no conflict of interest.*

Lee, Wonsae*Disclosed no conflict of interest.*

Lee, Yeonju*Disclosed no conflict of interest.*

Leek, Connor*Disclosed no conflict of interest.*

Leggin, Justin*Disclosed no conflict of interest.*

Lehner, Christine*Disclosed no conflict of interest.*

Lehoczky, Jessica*Disclosed no conflict of interest.*

Lemmon, Elisabeth A.*Disclosed no conflict of interest.*

Lemoine, Mark*Disclosed no conflict of interest.*

Lenz, Amy*Disclosed no conflict of interest.*

Lenz, Amy L.*Disclosed no conflict of interest.*

Lenz, Kristin*Disclosed no conflict of interest.*

Lenz, Kristin L.*Disclosed no conflict of interest.*

Lerch, Till*Disclosed no conflict of interest.*

Lerch, Till D*Disclosed no conflict of interest.*

Leung, Shui Yee.....*Disclosed no conflict of interest.*

LeVasseur, Clarissa*Disclosed no conflict of interest.*

Levato, Riccardo*Disclosed no conflict of interest.*

Levi, Benjamin*Disclosed no conflict of interest.*

Levine, William N.*Disclosed no conflict of interest.*

Lewis, Brian D4: Paid Consultant: Stryker, Zimmer, Nanovis.

Lewis, Karl.....*Disclosed no conflict of interest.*

Li, Dan*Disclosed no conflict of interest.*

Li, Jianyu*Disclosed no conflict of interest.*

Li, Jie.....*Disclosed no conflict of interest.*

Li, Jinpu*Disclosed no conflict of interest.*

Li, Jun*Disclosed no conflict of interest.*

Li, Mei*Disclosed no conflict of interest.*

Li, Mingzheng.....*Disclosed no conflict of interest.*

Li, Neill Y*Disclosed no conflict of interest.*

Li, Vivian.....*Disclosed no conflict of interest.*

Li, Xiaojuan5: Siemens.

Li, Xuan*Disclosed no conflict of interest.*

Li, Xudong*Disclosed no conflict of interest.*

Li, Xueping*Disclosed no conflict of interest.*

Li, Yeming.....*Disclosed no conflict of interest.*

Li, Yihan.....*Disclosed no conflict of interest.*

Li, Zhao.....*Disclosed no conflict of interest.*

Li, Zhong (Alan).....*Disclosed no conflict of interest.*

Li, Zong-Ming*Disclosed no conflict of interest.*

Liang, Dawei*Disclosed no conflict of interest.*

Lidgren, Lars.....4: Stockholder in Moroxite AB, Sweden; 8: . Lars Lidgren is a board member of Bone Support AB, Sweden and Ortho Cell, Australia.

Lidgren, Lars.....4: Moroxite AB, Sweden; 9: Bone support AB, Sweden and OrthoCell Ltd., Australia.

Lieber, Richard L*Disclosed no conflict of interest.*

Lieber, Richard L.*Disclosed no conflict of interest.*

Lieberman, Jay3B: DePuy, a Johnson & Johnson Company; 4: Hip Innovation Technology, BD Surgiphor; 7B: Saunders/Mosby-Elsevier; 9: AAOS, Western Orthopaedic Association, Hip Society, Musculoskeletal Transplant foundation.

Liedert, Astrid*Disclosed no conflict of interest.*

Lillquist, Thomas J*Disclosed no conflict of interest.*

Lim, Youngwook*Disclosed no conflict of interest.*

Limberg, Afton*Disclosed no conflict of interest.*

Lin, Albert3B: Wright, Arthrex.

Lin, Hang*Disclosed no conflict of interest.*

Lin, Mei Yun3A: Avantor, Inc.

Lin, Xi.....*Disclosed no conflict of interest.*

Lin, Ye.....*Disclosed no conflict of interest.*

Lin, Zixuan.....*Disclosed no conflict of interest.*

Lind, Martin5: Smith and Nephew.

Linton, Alexander*Disclosed no conflict of interest.*

Linus, Awuniji*Disclosed no conflict of interest.*

Lisonbee, Rich.....*Disclosed no conflict of interest.*

Lisonbee, Rich J.....*Disclosed no conflict of interest.*

Liu, Chao*Disclosed no conflict of interest.*

Liu, Chuanju*Disclosed no conflict of interest.*

Liu, Jessica Z.....*Disclosed no conflict of interest.*

Liu, jiatong*Disclosed no conflict of interest.*

Liu, Jin*Disclosed no conflict of interest.*

Liu, Mengyao*Disclosed no conflict of interest.*

Liu, Shaohua*Disclosed no conflict of interest.*

Liu, X. Sherry.....*Disclosed no conflict of interest.*

Liu, Xiangyi (Cheryl).....3A: Stryker.

Liu, Xuhui*Disclosed no conflict of interest.*

Liu, Xuihui*Disclosed no conflict of interest.*

Liu, Yang.....*Disclosed no conflict of interest.*

Liu, Yin.....*Disclosed no conflict of interest.*

Liu, Yulei.....*Disclosed no conflict of interest.*

LLabre, Joan E*Disclosed no conflict of interest.*

Locke, Ryan.....*Disclosed no conflict of interest.*

Locke, Ryan C.....*Disclosed no conflict of interest.*

Loenen, Arjan*Disclosed no conflict of interest.*

Loflin, Ben*Disclosed no conflict of interest.*

Logterman, Stephanie*Disclosed no conflict of interest.*

Lohse, Keith R*Disclosed no conflict of interest.*

Loiselle, Alayna*Disclosed no conflict of interest.*

Longaray, Jason3A: Stryker; 4: Stryker.

Lopez, Juan D*Disclosed no conflict of interest.*

Loss, Jeremy G*Disclosed no conflict of interest.*

Lotz, Jeffrey.....*Disclosed no conflict of interest.*

Lotz, Jeffrey C.....*Disclosed no conflict of interest.*

Louiselle, Daniel*Disclosed no conflict of interest.*

Lowe, Timothy*Disclosed no conflict of interest.*

Lu, Helen*Disclosed no conflict of interest.*

Lu, Helen H.....*Disclosed no conflict of interest.*

Lu, X. Lucas*Disclosed no conflict of interest.*

Lucidi, Gian Andrea*Disclosed no conflict of interest.*

Ludwig, Kai D.*Disclosed no conflict of interest.*

Luk, Connie*Disclosed no conflict of interest.*

Luk, Josephine*Disclosed no conflict of interest.*

Lumry, Jessica*Disclosed no conflict of interest.*

Luo, Guotian*Disclosed no conflict of interest.*

Luo, Juntao*Disclosed no conflict of interest.*

Luo, Lijun.....*Disclosed no conflict of interest.*

Lustig, Sebastien.....2: Smith & Nephew, Stryker; 3B: Smith & Nephew, Stryker.

Ma, Chi*Disclosed no conflict of interest.*

Ma, Jinjin*Disclosed no conflict of interest.*

Ma, Yinjiao*Disclosed no conflict of interest.*

Ma'ayan, Avi*Disclosed no conflict of interest.*

MacDonald, Lucy*Disclosed no conflict of interest.*

Mackenzie, Johanna*Disclosed no conflict of interest.*

Madhu, Vedavathi*Disclosed no conflict of interest.*

Madsen, Jan Erik*Disclosed no conflict of interest.*

Maeda, Tatsunori*Disclosed no conflict of interest.*

Maerz, Tristan*Disclosed no conflict of interest.*

Magneli, Martin*Disclosed no conflict of interest.*

Maher, Suzanne4: AGelity Biomechanics Corp; 9: Board Member of ORS.

Mahmoud, Khadija*Disclosed no conflict of interest.*

Mahon, Olwyn R*Disclosed no conflict of interest.*

Mahtani, Gordhan B*Disclosed no conflict of interest.*

Majumdar, Sharmila*Disclosed no conflict of interest.*

Makarczyk, Meagan*Disclosed no conflict of interest.*

Mäkelä, Janne T A*Disclosed no conflict of interest.*

Malda, Jos*Disclosed no conflict of interest.*

Maldonado, David R8: Arthroscopy Journal.

Malfait, Anne-Marie1: Eli Lilly; 2: Pfizer; 3A: AKP; 3B: 23andMe.

Malhotra, Neil*Disclosed no conflict of interest.*

Malkani, Arthur1: Stryker; 2: Stryker; 3B: Stryker; 5: Stryker; 8: Journal of Arthroplasty;
9: AAOS Hip Committee Annual Meeting.

Mallick, Umer*Disclosed no conflict of interest.*

Malloy, Philip*Disclosed no conflict of interest.*

Manal, Kurt*Disclosed no conflict of interest.*

Mandell, Jonathan B*Disclosed no conflict of interest.*

Mane, Amitkumar M3A: DePuy Synthes; 4: Johnson and Johnson.

Mannarino, Matthew*Disclosed no conflict of interest.*

Mannen, Erin M.....5: International Hip Dysplasia Institute, Medtronic, Inc.

Manrique, Nathaniel*Disclosed no conflict of interest.*

Mansur, Nacime Salomao B.....*Disclosed no conflict of interest.*

Manzi, Joseph*Disclosed no conflict of interest.*

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

Marchwiany, Daniel A*Disclosed no conflict of interest.*

Marcolongo, Michele*Disclosed no conflict of interest.*

Marette, Shelly*Disclosed no conflict of interest.*

Markel, David*Disclosed no conflict of interest.*

Marrero, Luis*Disclosed no conflict of interest.*

Marsh, J......*Disclosed no conflict of interest.*

Marsh, J. Lawrence.....*Disclosed no conflict of interest.*

Marshall, Glenda*Disclosed no conflict of interest.*

Martelli, Saulo*Disclosed no conflict of interest.*

Martin, R. Kyle6: Arthrex, Linvatec, Mitek, Smith and Nephew.

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

Martin, Stephen*Disclosed no conflict of interest.*

Martinez-Lozano, Edith*Disclosed no conflict of interest.*

Marvin, Jason C*Disclosed no conflict of interest.*

Matera, Daniel L*Disclosed no conflict of interest.*

Mathew, Mathew.....*Disclosed no conflict of interest.*

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

Matsui, Yuichiro*Disclosed no conflict of interest.*

Matsumae, Gen*Disclosed no conflict of interest.*

Matsumoto, Yoshihiro*Disclosed no conflict of interest.*

Matsunami, Sansui.....*Disclosed no conflict of interest.*

Matsuoka, Masatake.....*Disclosed no conflict of interest.*

Matthew, Robert.....*Disclosed no conflict of interest.*

Mattingly, Brett T*Disclosed no conflict of interest.*

Mauck, Robert5: 4Web; 8: JOR-Spine.

Mauck, Robert5: 4Web; 8: JOR Spine.

Mauck, Robert5: Company; 8: JOR Spine.

Mauck, Robert4: Web Medical; 5: Web Medical; 8: JOR Spine.

Mauck, Robert L*Disclosed no conflict of interest.*

Mauck, Robert L5: Mechano-Therapeutics; 8: JOR Spine.

Mayman, David3B: Stryker; 4: Imagen, Insight, OrthAlign, Wishbone; 7A: OrthAlign, Smith & Nephew; 9: Hip Society, Knee Society.

McAlinden, Audrey.....8: Serve on the editorial.

McCarthy, Edward.....*Disclosed no conflict of interest.*

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

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

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

McFaline-Figueroa, Jennifer.....*Disclosed no conflict of interest.*

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

McIff, Terence E.....*Disclosed no conflict of interest.*

McInnes, Iain*Disclosed no conflict of interest.*

McKenzie, Jennifer*Disclosed no conflict of interest.*

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

McKinzie, David3B: paid consultant; 4: pharmaceutical company stock.

McLean, Michael*Disclosed no conflict of interest.*

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

McNeill, Tyler J*Disclosed no conflict of interest.*

Meadows, Kyle*Disclosed no conflict of interest.*

Meek, Wendy M.....*Disclosed no conflict of interest.*

Mehrotra, Dev R.....*Disclosed no conflict of interest.*

Mehta-D'Souza, Padmaja.....*Disclosed no conflict of interest.*

Melkus, Gerd*Disclosed no conflict of interest.*

Melnic, Christopher M*Disclosed no conflict of interest.*

Mendez-Ferrer, Simon*Disclosed no conflict of interest.*

Mengis, Tamara.....*Disclosed no conflict of interest.*

Mero, Benjamin*Disclosed no conflict of interest.*

Metzger, Corinne*Disclosed no conflict of interest.*

Metzger, Gregory J.*Disclosed no conflict of interest.*

Metzger, Melodie5: Arthrex, Medtronic; 8: Arthroscopy Journal.

Mevel, Elsa*Disclosed no conflict of interest.*

Meyer, Gretchen*Disclosed no conflict of interest.*

Michaud, John*Disclosed no conflict of interest.*

Mifune, Yutaka*Disclosed no conflict of interest.*

Migotsky, Nicole*Disclosed no conflict of interest.*

Mihalko, William M1: Aesculap Inc; 3B: Aesculap Inc, Zimmer/Biomet; 7A: Aesculap Inc; 7B: Elsevier Inc; 8: J Orthop Res, J Arthroplasty, J Long Term Eff Med Implants, Orthop Clinics NA; 9: Campbell Foundation, AAOS, ORS, ASTM International, AAHKS, Knee Society, Hip Society.

Miles, Jon*Disclosed no conflict of interest.*

Millar, Neal*Disclosed no conflict of interest.*

Millecamps, Magali*Disclosed no conflict of interest.*

Miller, Anna N.6: Smith & Nephew; 8: JOT, JAAOS; 9: OTA, ACS COT, AOA.

Miller, Aspen*Disclosed no conflict of interest.*

Miller, Kirsten C*Disclosed no conflict of interest.*

Miller, Mark Carl*Disclosed no conflict of interest.*

Miller, Rachel E*Disclosed no conflict of interest.*

Mills, Candee*Disclosed no conflict of interest.*

Mills, Emily*Disclosed no conflict of interest.*

Mitchell, Charles*Disclosed no conflict of interest.*

Moatshe, Gilbert*Disclosed no conflict of interest.*

Moeller, Steen*Disclosed no conflict of interest.*

Moharrer, Yasaman*Disclosed no conflict of interest.*

Momenzadeh, Kaveh*Disclosed no conflict of interest.*

Monahan, Genna E*Disclosed no conflict of interest.*

Mononen, Mika E*Disclosed no conflict of interest.*

Monte, Felipe*Disclosed no conflict of interest.*

Montero, Angela*Disclosed no conflict of interest.*

Moody, Maya C*Disclosed no conflict of interest.*

Mookerjee, Gaurav G*Disclosed no conflict of interest.*

Mooney, David*Disclosed no conflict of interest.*

Mooney, David J5: Novartis.

Moore, Douglas*Disclosed no conflict of interest.*

Morales Martinez, Alejandro*Disclosed no conflict of interest.*

Morgan Pope, Samuel*Disclosed no conflict of interest.*

Morgese, Giulia*Disclosed no conflict of interest.*

Morita, Wataru*Disclosed no conflict of interest.*

Morrey, Mark4: Tenex.

Morris, Carol*Disclosed no conflict of interest.*

Morris, Evan*Disclosed no conflict of interest.*

Morrow, Brian*Disclosed no conflict of interest.*

Morton, Amy*Disclosed no conflict of interest.*

Mosley, Amber*Disclosed no conflict of interest.*

Motesharei, Arman3A: Stryker.

Moulton, Julia N*Disclosed no conflict of interest.*

Moy, Jamie*Disclosed no conflict of interest.*

Mozingo, Joseph D*Disclosed no conflict of interest.*

Muir, Victoria G.*Disclosed no conflict of interest.*

Muirhead-Allwood, Sarah K*Disclosed no conflict of interest.*

Mukherjee, Noyonika*Disclosed no conflict of interest.*

Mukohara, Shintaro*Disclosed no conflict of interest.*

Mullen, Michael*Disclosed no conflict of interest.*

Munsch, Maria*Disclosed no conflict of interest.*

Murakami, Hideki*Disclosed no conflict of interest.*

Murakami, Masaaki*Disclosed no conflict of interest.*

Muratoglu, Orhun2: DePuy Synthes, Zimmer Biomet, Total Joint Orthopedics, Exactech; 3A: Stryker, Arthrex, Zimmer Biomet, Conformis, Corin, Kyocera, Meril Healthcare, Exactech; 4: Total Joint Orthopedics; 9: Alchemist, Cambridge Polymer Group, Orthopedic Technology Group.

Murawski, Christopher*Disclosed no conflict of interest.*

Murphy, Conor*Disclosed no conflict of interest.*

Murray, John*Disclosed no conflict of interest.*

Murthi, Anand*1: Depuy Inc, Globus Medical, Aevumed, Ignite Orthopaedics; 3B: Ignite Ortho, Depuy, Globus; 4: Right Tracks, Catalyst Orthoscience, Ignite Ortho; 8: Journal Shoulder and Elbow Surgery, Current Orthop Practice; 9: Association of Clinical Elbow and Shoulder Surgeons.*

Musahl, Volker*6: Smith&Nephew, Arthrex.*

Muscat, Samantha.....*Disclosed no conflict of interest.*

Myers, Casey.....*Disclosed no conflict of interest.*

Nabeshima, Akira*Disclosed no conflict of interest.*

Nadeem, Aftab*Disclosed no conflict of interest.*

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

Nagle, Tara F*1: Cleveland Clinic, simVITRO.*

Naito, Yohei*Disclosed no conflict of interest.*

Nakagawa, Makoto*Disclosed no conflict of interest.*

Nakashima, Yasuharu.....*Disclosed no conflict of interest.*

Nam, Sungmin*Disclosed no conflict of interest.*

Namiri, Nikan.....*Disclosed no conflict of interest.*

Nasamran, Chanond A*Disclosed no conflict of interest.*

Nasrollahzadeh1, Naser*Disclosed no conflict of interest.*

Nazal, Mark R*Disclosed no conflict of interest.*

Nazarian, Ara*Disclosed no conflict of interest.*

Neal, Kelsey*Disclosed no conflict of interest.*

Neal, Sydney*Disclosed no conflict of interest.*

Negri, Stefano*Disclosed no conflict of interest.*

Nelson, Bradley*Disclosed no conflict of interest.*

Nelson, Bradley J.*Disclosed no conflict of interest.*

Nelson, Trevor J*Disclosed no conflict of interest.*

Neri, John P.....*Disclosed no conflict of interest.*

Ng, Geoffrey*Disclosed no conflict of interest.*

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

Nguyen, Anthony.....*Disclosed no conflict of interest.*

Nguyen, Phong K*Disclosed no conflict of interest.*

Nho, Shane*Disclosed no conflict of interest.*

Nho, Shane J5: CONMED Linvatec, OSSÜR, Allosource, Arthrex, DJ Orthopaedics, Athletico, Miomed, Smith & Nephew, Stryker.

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

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

Nieminen, Miika T.*Disclosed no conflict of interest.*

Nigh, Evan D......4: Amgen.

Nijsure, Madhura*Disclosed no conflict of interest.*

Nippolainen, Ervin.....*Disclosed no conflict of interest.*

Nishida, Kyohai.....*Disclosed no conflict of interest.*

Nishimoto, Hanako.....*Disclosed no conflict of interest.*

Nishimura, Nozomi.....*Disclosed no conflict of interest.*

Nishtala, Sita Nirupama*Disclosed no conflict of interest.*

Noble, Philip1: Zimmer Biomet;Stryker; 3B: Zimmer Biomet;; 4: Joint View,LLC; 6: Zimmer Biomet;DJO; 7B: Springer; 8: Journal of Hip Preservation Surgery; 9: International Society for Technology in Arthroplasty.

Noehren, Brian*Disclosed no conflict of interest.*

Noll, Alexander*Disclosed no conflict of interest.*

Nolte, Mike*Disclosed no conflict of interest.*

Noori-Dokht, Hessam*Disclosed no conflict of interest.*

Nourae, Cyrus M......*Disclosed no conflict of interest.*

Novais, Eduardo N*Disclosed no conflict of interest.*

Novais, Emanuel J......*Disclosed no conflict of interest.*

Novak, Kimberly*Disclosed no conflict of interest.*

Nowinka, Zuzanna*Disclosed no conflict of interest.*

Nowlan, Niamh C......*Disclosed no conflict of interest.*

Nulty, Jessica*Disclosed no conflict of interest.*

Nurse, Cameron A*Disclosed no conflict of interest.*

Nuss, Courtney*Disclosed no conflict of interest.*

Nustad, Jordan L.....*Disclosed no conflict of interest.*

Nuthalapati, Prashant*Disclosed no conflict of interest.*

Nyayapati, Priya*Disclosed no conflict of interest.*

Nyman, Jeffry*Disclosed no conflict of interest.*

O'Brien, Fergal*Disclosed no conflict of interest.*

O'Brien, Fergal J6: Integra Life Sciences, J&J.

O'Brien, Fergal J6: Integra Life Sciences, J&J.

O'Brien, Fergal J5: LocateBio, Johnson&Johnson, Integra LifeSciences, SurgaColl.

O'Byrne, John M.*Disclosed no conflict of interest.*

O'Driscoll, Caitriona M*Disclosed no conflict of interest.*

O'Keefe, Regis J*Disclosed no conflict of interest.*

O'Malley, Michael*Disclosed no conflict of interest.*

O'Neill, Conor*Disclosed no conflict of interest.*

O'Neill, Conor W*Disclosed no conflict of interest.*

O'Rourke, Dermot*Disclosed no conflict of interest.*

Obaji, Mariam*Disclosed no conflict of interest.*

Obeidat, Alia M*Disclosed no conflict of interest.*

Ochocki, Danielle N*Disclosed no conflict of interest.*

Ockerhausen, Hayley*Disclosed no conflict of interest.*

Oda, Yoshinao*Disclosed no conflict of interest.*

Oestreich, Arin K*Disclosed no conflict of interest.*

Oh, Irvin*Disclosed no conflict of interest.*

Ohashi, Yoshifumi*Disclosed no conflict of interest.*

Ohkoshi, Yasumitsu*Disclosed no conflict of interest.*

Oktarina, Anastasia*Disclosed no conflict of interest.*

Okubo, Norio*Disclosed no conflict of interest.*

Olsen, Zachary*Disclosed no conflict of interest.*

Olsson, Martin A*Disclosed no conflict of interest.*

Onishi, Kentaro*Disclosed no conflict of interest.*

Onodera, Tomohiro*Disclosed no conflict of interest.*

Orías, Alejandro A Espinoza*Disclosed no conflict of interest.*

Orozco, Gustavo A*Disclosed no conflict of interest.*

Orozco, Gustavo A*Disclosed no conflict of interest.*

Ortmann, Stephen D*Disclosed no conflict of interest.*

Oswald, Alexandra3A: Zimmer Biomet.

Otero, Miguel*Disclosed no conflict of interest.*

Ouellet, Jean A.....*Disclosed no conflict of interest.*

Overman, Steven3B: KenSci, Inc.

Owen, Aaron.....*Disclosed no conflict of interest.*

Owen, Meredith*Disclosed no conflict of interest.*

Owings, Tammy*Disclosed no conflict of interest.*

Oyama, Ryunosuke.....*Disclosed no conflict of interest.*

Ozevin, Didem*Disclosed no conflict of interest.*

Pacheco-Flores, Haydee*Disclosed no conflict of interest.*

Pachuda, Nicholas3A: Peptilogics.

Pacicca, Donna.....9: ORS Chair of Public Outreach, ORS Meniscus Section Member-at-large.

Pacifici, Maurizio*Disclosed no conflict of interest.*

Paiement, Guy D.....*Disclosed no conflict of interest.*

Palm-Vlasak, Lindsey.....*Disclosed no conflict of interest.*

Panebianco, Christopher J.....*Disclosed no conflict of interest.*

Panfilov, Egor.....*Disclosed no conflict of interest.*

Pannellini, Tania*Disclosed no conflict of interest.*

Papalamprou, Angela*Disclosed no conflict of interest.*

Paranjape, Chinmay*Disclosed no conflict of interest.*

Pareatumbbee, Pivatidevi.....*Disclosed no conflict of interest.*

Pareek, Ayoosh.....*Disclosed no conflict of interest.*

Parente, James B*Disclosed no conflict of interest.*

Parisien, Robert*Disclosed no conflict of interest.*

Park, Gil Young*Disclosed no conflict of interest.*

Park, Hyung Chul*Disclosed no conflict of interest.*

Park, Min Sung.....*Disclosed no conflict of interest.*

Park, Na Rae*Disclosed no conflict of interest.*

Parker, Dana M.....*Disclosed no conflict of interest.*

Parker, Emily.....*Disclosed no conflict of interest.*

Parsons, Moby*3B: Exactech, Inc.*

Parvini, Shayan*Disclosed no conflict of interest.*

Pastinen, Tomi.....*Disclosed no conflict of interest.*

Patel, Jay*3B: paid consultant; 4: owns stock.*

Patel, Neeraj.....*Disclosed no conflict of interest.*

Paulus, Paige.....*Disclosed no conflict of interest.*

Pedoia, Valentina*Disclosed no conflict of interest.*

Peffer, Mandy J*8: Equine Veterinary Journal.*

Pei, Shaopeng*Disclosed no conflict of interest.*

Pekmezian, Ashley.....*Disclosed no conflict of interest.*

Peloquin, John*Disclosed no conflict of interest.*

Penenberg, Brad L*3B: United Orthopaedics; 3C: RadLink; 4: RadLink; 7A: Microport, Zimmer.*

Pennings, Jacquelyn*Disclosed no conflict of interest.*

Peredo, Ana P*Disclosed no conflict of interest.*

Perry, Tiffany*3B: Misonix.*

Persad, Lomas S.....*Disclosed no conflict of interest.*

Persson, Andreas.....*Disclosed no conflict of interest.*

Peters, Christopher L.....*1: ZimmerBiomet; 9: Knee Society, OrthoGrid LLC.*

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

Peterson, Andrew C.....*Disclosed no conflict of interest.*

Petite, Hervé.....*Disclosed no conflict of interest.*

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

Peymanfar, Yaser*6: Genentech company material transfer.*

Pham, Christine T.N......*Disclosed no conflict of interest.*

Philip, Hanna*Disclosed no conflict of interest.*

Phillips, Evan.....*Disclosed no conflict of interest.*

Phillips, Tessa*Disclosed no conflict of interest.*

Piacentini, Alexander*Disclosed no conflict of interest.*

Pietrosimone, Brian G*Disclosed no conflict of interest.*

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

Pinnamaneni, Sridhar.....*Disclosed no conflict of interest.*

Pioletti, Dominique*Disclosed no conflict of interest.*

Piple, Amit*Disclosed no conflict of interest.*

Piva, Sara*Disclosed no conflict of interest.*

Pivonka, Peter*Disclosed no conflict of interest.*

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

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

Plassche, Grace.....*Disclosed no conflict of interest.*

Pleshko, Nancy*Disclosed no conflict of interest.*

Plotkin, Lilian*Disclosed no conflict of interest.*

Postras, Stephane*Disclosed no conflict of interest.*

Polamalu, Sene.....*Disclosed no conflict of interest.*

Pollitt, Eleanor N.*Disclosed no conflict of interest.*

Polster, Joshua.....4: Mediphany.

Porter, Annie*Disclosed no conflict of interest.*

Potier, Esther*Disclosed no conflict of interest.*

Potluri, Tanvi*Disclosed no conflict of interest.*

Potter, Hollis.....5: GE Healthcare.

Potter, Hollis G5: GE Healthcare.

Pourzal, Robin.....*Disclosed no conflict of interest.*

Powel, Dexter*Disclosed no conflict of interest.*

Power, Rachael N.*Disclosed no conflict of interest.*

Pranatharthi-Haran, Annapurna *Disclosed no conflict of interest.*

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

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

Provencher, Matthew1: Arthrex, Smith & Nephew, Ossur; 9: AOSSM.

Prudnikova, Katsiaryna*Disclosed no conflict of interest.*

Pruneski, James*Disclosed no conflict of interest.*

Pryce, Brian A*Disclosed no conflict of interest.*

Pugliese, Brenna R.....*Disclosed no conflict of interest.*

Pyle, Sienna C*Disclosed no conflict of interest.*

Qadri, Marwa*Disclosed no conflict of interest.*

Qazi, Taimoor H......*Disclosed no conflict of interest.*

Qiao, Zhen*Disclosed no conflict of interest.*

Qin, Di*Disclosed no conflict of interest.*

Qin, Ling*Disclosed no conflict of interest.*

Qin, Qizhi*Disclosed no conflict of interest.*

Querido, William*Disclosed no conflict of interest.*

Rabenhorst, Brien M*Disclosed no conflict of interest.*

Ragipoglu, Deniz*Disclosed no conflict of interest.*

Rai, Ajinkya*Disclosed no conflict of interest.*

Rai, Muhammad Farooq*Disclosed no conflict of interest.*

Rainbow, Michael J*Disclosed no conflict of interest.*

Rajaei, Sean S*Disclosed no conflict of interest.*

Rajapakse, Chamith S.....*Disclosed no conflict of interest.*

Rakhra, Kawan.....*Disclosed no conflict of interest.*

Rana, Adam J1: Smith Nephew; 2: Smith Nephew; 3B: Smith Nephew.

Randall, Lindsey.....*Disclosed no conflict of interest.*

Rashidi, Neda.....*Disclosed no conflict of interest.*

Rauck, Ryan C.*Disclosed no conflict of interest.*

Rebello, Elliott*Disclosed no conflict of interest.*

Redding, Stephen*Disclosed no conflict of interest.*

Redwine, Adan R*Disclosed no conflict of interest.*

Reesink, Heidi L*Disclosed no conflict of interest.*

Reeves, Kelsey*Disclosed no conflict of interest.*

Reilly, Gwendolen C*Disclosed no conflict of interest.*

Reina, Nicolas*3B: Stryker, Adler; 4: Digikare.*

Reiter, Alex*Disclosed no conflict of interest.*

Ren, Weiping*Disclosed no conflict of interest.*

Ren, Yinshi*Disclosed no conflict of interest.*

Reuter, John M*Disclosed no conflict of interest.*

Reuther, Katie.....*Disclosed no conflict of interest.*

Reyes, Justin*Disclosed no conflict of interest.*

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

Riak, Matthew B*Disclosed no conflict of interest.*

Ricchetti, Eric*1: DJO; 3B: DJO, Depuy; 8: JSES; 9: Am Board of Ortho Surgery, ASES, AAOS.*

Risbud, Makarand*Disclosed no conflict of interest.*

Risbud, Makarand V*Disclosed no conflict of interest.*

Ristaniemi, Aapo*Disclosed no conflict of interest.*

Rivas, Dominic J.L.*Disclosed no conflict of interest.*

Robbins, Paul*1: 4, Has stock in Genascence Inc.*

Roberts, Joseph L.....*Disclosed no conflict of interest.*

Robey, Pamela.....*Disclosed no conflict of interest.*

Roche, Christopher*3A: Exactech, Inc.; 4: Exactech, Inc.*

Roche, Christopher*3A: Exactech, Inc; 4: Exactech Inc.*

Rock, Mick J.*3A: DePuy Synthes; 4: Johnson and Johnson.*

Rodeo, Scott*Disclosed no conflict of interest.*

Rodeo, Scott A*Disclosed no conflict of interest.*

Rodrigues, Danieli*Disclosed no conflict of interest.*

Roh, Kyung-Min*Disclosed no conflict of interest.*

Rothrauff, Benjamin B.....*Disclosed no conflict of interest.*

Roupas, Alex J.....*Disclosed no conflict of interest.*

Routman, Howard*3B: Exactech, Inc; 7A: Exactech, Inc.*

Rucinski, Kyle*Disclosed no conflict of interest.*

Rueff, Matthew3A: Exactech.

Rullkoetter, Paul.....5: Depuy Synthes.

Ruoss, Severin*Disclosed no conflict of interest.*

Rux, Caleb*Disclosed no conflict of interest.*

Ruzbarsky, Joseph*Disclosed no conflict of interest.*

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

Rzeczycki, Phillip.....*Disclosed no conflict of interest.*

Saarakkala, Simo*Disclosed no conflict of interest.*

Saccone, Nancy.....7B: U.S. Patent 8,080,371.

Sadowska, Joanna*Disclosed no conflict of interest.*

Safadi, Fayez F*Disclosed no conflict of interest.*

Sahoo, Sambit.....1: Viscus; 4: Becton Dickinson, J&J, Medtronic.

Said, Mohamed*Disclosed no conflict of interest.*

Sakai, Daisuke.....3B: TUNZ Pharma Co. Ltd.; 8: JOR Spine.

Sako, Kosuke.....*Disclosed no conflict of interest.*

Sakurai, Shigeyuki*Disclosed no conflict of interest.*

Salehi, Khosrowdad.....*Disclosed no conflict of interest.*

Salehi, Koz.....*Disclosed no conflict of interest.*

Salib, Christopher*Disclosed no conflict of interest.*

Saliken, David*Disclosed no conflict of interest.*

Salomao Barbachan Mansur, Nacime *Disclosed no conflict of interest.*

Saltzman, Charles3B: Zimmer-Biomet.

Saltzman, Charles L.3B: Zimmer-Biomet.

Samartzis, Dino.....*Disclosed no conflict of interest.*

Sanborn, Ryan*Disclosed no conflict of interest.*

Sanchez-Sotelo, Joaquin.....2: Stryker; 3B: Exactech, Inc, Precision OS, Acumed; 4: PSI; 5: Stryker; 7A: Stryker; 7B: Elsevier, Journal of Shoulder and Elbow Surgery, Oxford University Press; 8: Journal of Shoulder and Elbow Surgery.

Sankar, Uma*Disclosed no conflict of interest.*

Santangelo, Kelly S*Disclosed no conflict of interest.*

Sasaya, Kazuki*Disclosed no conflict of interest.*

Saunders, Cheri M*Disclosed no conflict of interest.*

Savadipour, Alireza*Disclosed no conflict of interest.*

Sayari, Arash*Disclosed no conflict of interest.*

Scanzello, Carla*Disclosed no conflict of interest.*

Schaer, Thomas*Disclosed no conflict of interest.*

Schallmo, Michael*Disclosed no conflict of interest.*

Scheffler, Aaron*Disclosed no conflict of interest.*

Scheidt, Karl B*Disclosed no conflict of interest.*

Scheidt, Robert A*Disclosed no conflict of interest.*

Scheys, Lennart*Disclosed no conflict of interest.*

Schiavi-Tritz, Jessica*Disclosed no conflict of interest.*

Schickendantz, Mark*Disclosed no conflict of interest.*

Schifino, Albino G*Disclosed no conflict of interest.*

Schilling Jr., Kevin*Disclosed no conflict of interest.*

Schimoler, Patrick J*Disclosed no conflict of interest.*

Schinke, Thorsten*Disclosed no conflict of interest.*

Schipani, Ernestina*Disclosed no conflict of interest.*

Schipani, Rossana*Disclosed no conflict of interest.*

Schlecht, Stephen H*Disclosed no conflict of interest.*

Schmale, Gregory6: SIGN Fracture Care International, Arthrex.

Schmaranzer, Florian*Disclosed no conflict of interest.*

Schnabel, Lauren V*Disclosed no conflict of interest.*

Schneider, Gary*Disclosed no conflict of interest.*

Schoch, Bradley3B: Exactech, Inc.

Schol, Jordy*Disclosed no conflict of interest.*

Schott, Hayden*Disclosed no conflict of interest.*

Schüpbach, Regula*Disclosed no conflict of interest.*

Schütze, Konrad*Disclosed no conflict of interest.*

Schwarz, Edward*Disclosed no conflict of interest.*

Schweitzer, Ronen*Disclosed no conflict of interest.*

Sculco, Peter3A: EOS Imaging, Intellijoint Surgical, Lima Corporate, Zimmer, DePuy, A Johnson & Johnson Company, Parvizi Surgical Innovation; 5: Intellijoint Surgical.

Sebastian, Sujeesh.....*Disclosed no conflict of interest.*

Seiden, Emily E*Disclosed no conflict of interest.*

Selders, Gretchen S.3A: Medtronic.

Sellon, Jacob*Disclosed no conflict of interest.*

Sendtner, Michael*Disclosed no conflict of interest.*

Senter, Rebecca K.....3A: Flexion Therapeutics, Inc; 4: Flexion Therapeutics, Inc.

Seo, Bo Ri*Disclosed no conflict of interest.*

Serna, Alfred*Disclosed no conflict of interest.*

Sessions, Garrett A*Disclosed no conflict of interest.*

Setsu, Nokitaka.....*Disclosed no conflict of interest.*

Setton, Lori*Disclosed no conflict of interest.*

Shahvarpour, Ali*Disclosed no conflict of interest.*

Shammas, Helen*Disclosed no conflict of interest.*

Shapiro, Irving M*Disclosed no conflict of interest.*

Shapiro, Lauren*Disclosed no conflict of interest.*

Sharma, Deepika*Disclosed no conflict of interest.*

Shaw, Jeremy.....7A: travel meeting support Stryker, Zimmer, Depuy.

Sheehy, Eamon*Disclosed no conflict of interest.*

Shelest, Oksana*Disclosed no conflict of interest.*

Shemo, Cathy.....*Disclosed no conflict of interest.*

Shen, Huaihuang*Disclosed no conflict of interest.*

Shen, Leyao.....*Disclosed no conflict of interest.*

Shen, Peter C*Disclosed no conflict of interest.*

Shen, Tony S*Disclosed no conflict of interest.*

Sherman, Katherine A*Disclosed no conflict of interest.*

Sheyn, Dmitriy*Disclosed no conflict of interest.*

Shi, Xingming*Disclosed no conflict of interest.*

Shikanov, Ariella.....*Disclosed no conflict of interest.*

Shimada, Eijiro.....*Disclosed no conflict of interest.*

Shimizu, Tomohiro*Disclosed no conflict of interest.*

Shimmin, Andrew1: Corin, MatOrtho; 3B: Corin, MatOrtho; 3C: 360 Med Care; 4: Corin.

Shin, Alexander Y*Disclosed no conflict of interest.*

Shin, Beomsu*Disclosed no conflict of interest.*

Shin, Jae-Won*Disclosed no conflict of interest.*

Shinohara, Issei.....*Disclosed no conflict of interest.*

Shirazi-Adl, Saeed.....*Disclosed no conflict of interest.*

Shore, Eileen M*Disclosed no conflict of interest.*

Short, Walter H.....*Disclosed no conflict of interest.*

Shu, Fei.....*Disclosed no conflict of interest.*

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

Siddicky, Safeer F.....*Disclosed no conflict of interest.*

Siebenrock, Klaus*Disclosed no conflict of interest.*

Siggelkow, Eik3A: Zimmer Biomet; 4: Zimmer Biomet.

Sij, Ethan W.....*Disclosed no conflict of interest.*

Silva, Matthew7B: Receive royalties; 8: Serve on the editorial; 9: Serve on the Board of Directors.

Silva, Matthew J8: Editorial Board: JOR, Bone, CTI; 9: Board of Directors: ORS.

Silva, Matthew J.8: JOR, Bone, CTI; 9: ORS.

Simon, Peter*Disclosed no conflict of interest.*

Simovitch, Ryan3B: Exactech, Inc.; 7A: Exactech, Inc.

Singh, Anhuman*Disclosed no conflict of interest.*

singh, Purva*Disclosed no conflict of interest.*

Singhal, Mo.....*Disclosed no conflict of interest.*

Small, David M.....*Disclosed no conflict of interest.*

Smith, Hannah*Disclosed no conflict of interest.*

Smith, Jay.....*Disclosed no conflict of interest.*

Smith, Kyra W.Y......*Disclosed no conflict of interest.*

Smith, Lachlan8: JOR Spine, Connective Tissue Research, PLOS One; 9: ORS Spine Section, National MPS Society.

Smith, Langan S*Disclosed no conflict of interest.*

Smith, Lucas.....*Disclosed no conflict of interest.*

Smith, Matthew J1: DePuy, A Johnson & Johnson Company, Ignite Orthopedics; 2: Arthrex, DePuy, A Johnson & Johnson Company; 3B: Zimmer; 4: Ignite Orthopedics; 5: Arthrex, Inc, Wright Medical Technology, Inc.

Smith, Richard A*Disclosed no conflict of interest.*

Smolinski, Anne K.....*Disclosed no conflict of interest.*

Smolinski, Kathryn L.....*Disclosed no conflict of interest.*

Snelling, Sarah*Disclosed no conflict of interest.*

Snuggs, Joseph.....*Disclosed no conflict of interest.*

Snyder, Brian D.....*Disclosed no conflict of interest.*

Snyder-Mackler, Lynn.....*Disclosed no conflict of interest.*

Sodhi, Alisha*Disclosed no conflict of interest.*

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

Sokhi, Upneet*Disclosed no conflict of interest.*

Sollmann, Nico.....*Disclosed no conflict of interest.*

Soltanihafshejani, Navid*Disclosed no conflict of interest.*

Somerville, Lyndsay.....*Disclosed no conflict of interest.*

Son, Yoocha.....*Disclosed no conflict of interest.*

Song, Katie*Disclosed no conflict of interest.*

Sorensen, Jacob R.....*Disclosed no conflict of interest.*

Sosa, Branden.....*Disclosed no conflict of interest.*

Soslowky, Lou*Disclosed no conflict of interest.*

Soslowky, Louis J.....*Disclosed no conflict of interest.*

South, Sanique M*Disclosed no conflict of interest.*

Souza, Richard*Disclosed no conflict of interest.*

Spang, Jeffrey T*Disclosed no conflict of interest.*

Speirs, Andrew D*Disclosed no conflict of interest.*

Spiller, Cassandra*Disclosed no conflict of interest.*

Spirig, José Miguel.....*Disclosed no conflict of interest.*

Spitzer, Andrew2: AO Recon; 3B: Depuy, Flexion Therapeutics.

Spitzer, Gabriel*Disclosed no conflict of interest.*

Springer, Luke E.*Disclosed no conflict of interest.*

Spritzer, Charles*Disclosed no conflict of interest.*

Spritzer, Charles E.*Disclosed no conflict of interest.*

Spritzer, Charles E.*Disclosed no conflict of interest.*

Spusta, Steven*Disclosed no conflict of interest.*

Srouf, Edward F.*Disclosed no conflict of interest.*

Stake, Ingrid K.6: Arthrex, Inc: Other financial or material support.

Stannard, James P3B: Arthrex, Inc, DePuy, A Johnson & Johnson Company, Smith & Nephew, Orthopaedic Designs North America; 5: Arthrex, Inc, Coulter Foundation, National Institutes of Health, U.S. Department of Defense; 7B: Thieme; 8: Journal of Knee Surgery; 9: American Orthopaedic Association, AO Foundation, AO North America, Mid-America Orthopaedic Association.

Starlinger, Julia*Disclosed no conflict of interest.*

Stefanovich, Tina*Disclosed no conflict of interest.*

Steinberg, David*Disclosed no conflict of interest.*

Stephan, Stephen*Disclosed no conflict of interest.*

Stephenson, Stacy M.*Disclosed no conflict of interest.*

Steppacher, Simon D*Disclosed no conflict of interest.*

Steppe, Lena*Disclosed no conflict of interest.*

Stewart, Holly*Disclosed no conflict of interest.*

Stief, Felix*Disclosed no conflict of interest.*

Stocco, Simone*Disclosed no conflict of interest.*

Stock, Stuart*Disclosed no conflict of interest.*

Stoeckl, Brendan*Disclosed no conflict of interest.*

Stoeckl, Brendan D*Disclosed no conflict of interest.*

Stoker, Aaron M1: Musculoskeletal Transplant Foundation.

Stone, Austin3C: Allosource, Smith & Nephew; 5: Allosource, Flexion Therapeutics; 9: AOSSM, AANA.

Stone, Laura*Disclosed no conflict of interest.*

Stoneback, Jason W.*Disclosed no conflict of interest.*

Storer, Luke*Disclosed no conflict of interest.*

Strnad, Greg1: OBERD.

Stubbs, Caleb*Disclosed no conflict of interest.*

Studders, Carson*Disclosed no conflict of interest.*

Stulberg, Jonah J......*Disclosed no conflict of interest.*

Stupp, Samuel.....*Disclosed no conflict of interest.*

Sturgeon, Callahan6: Smith Nephew.

Styring, Emelie.....*Disclosed no conflict of interest.*

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

Su, Yu-Wen*Disclosed no conflict of interest.*

Subih, Murad*Disclosed no conflict of interest.*

Sudo, Akihiro*Disclosed no conflict of interest.*

Sudo, Hideki.....*Disclosed no conflict of interest.*

Sugimoto, Katsumasa.....*Disclosed no conflict of interest.*

Suhardi, Vincentius J*Disclosed no conflict of interest.*

Sullivan, Breanna.....*Disclosed no conflict of interest.*

Sun, Mei.....*Disclosed no conflict of interest.*

Suri, Abhinav*Disclosed no conflict of interest.*

Susuki, Yosuke*Disclosed no conflict of interest.*

Suzuki, Shoji.....*Disclosed no conflict of interest.*

Suzuki, Yuki.....*Disclosed no conflict of interest.*

Swaroop, Vineeta*Disclosed no conflict of interest.*

Szeto, Greg.....4: multiple; 7A: sqz biotechnologies.

Szeto, Hazel H*Disclosed no conflict of interest.*

T Mathew, Mathew.....*Disclosed no conflict of interest.*

Tachi, Hiroyuki.....*Disclosed no conflict of interest.*

Tagil, Magnus.....4: MT holds stocks of Moroxite AB, Sweden.

Tägil, Magnus.....4: Stockholder in Moroxite AB, Sweden.

Tägil, Magnus.....4: Moroxite AB, Sweden.

Taguchi, Masashi*Disclosed no conflict of interest.*

Takaba, Keishi.....*Disclosed no conflict of interest.*

Takahashi, Daisuke.....*Disclosed no conflict of interest.*

Takahashi, Ikuko *Disclosed no conflict of interest.*

Takahashi, Nobunori *Disclosed no conflict of interest.*

Takenaga, Tetsuya *Disclosed no conflict of interest.*

Takeuchi, Satoshi *Disclosed no conflict of interest.*

Talentino, Spencer *Disclosed no conflict of interest.*

Tamerler, Candan C *Disclosed no conflict of interest.*

Tan, Ek T 5: GE Healthcare.

Tan, Guak-Kim *Disclosed no conflict of interest.*

Tan, Mann Hong *Disclosed no conflict of interest.*

Tan, Xiaohong *Disclosed no conflict of interest.*

Tanaka, Toshikazu *Disclosed no conflict of interest.*

Tandberg, Felix *Disclosed no conflict of interest.*

Tang, Cammy *Disclosed no conflict of interest.*

Tang, Ruhang *Disclosed no conflict of interest.*

Tang, Simon 9: Serve on the Board of Directors or committee of any medical-related company and/or orthopaedic professional society.

Tang, Sisi *Disclosed no conflict of interest.*

Taniguchi, Cullen *Disclosed no conflict of interest.*

Tannast, Moritz *Disclosed no conflict of interest.*

Tanska, Petri *Disclosed no conflict of interest.*

Taratuta, Elena *Disclosed no conflict of interest.*

Tata, Zachary *Disclosed no conflict of interest.*

Tautges, Seth *Disclosed no conflict of interest.*

Tawackoli, Wafa *Disclosed no conflict of interest.*

Taylor, Brittany L *Disclosed no conflict of interest.*

Taylor, Deanne *Disclosed no conflict of interest.*

Taylor, Earnest L *Disclosed no conflict of interest.*

Taylor, Matthew J *Disclosed no conflict of interest.*

Taylor, Samuel 3B: DJO.

Taylor, Samuel 1: Don Joy Orthopedics.

Tazegul, Tutku*Disclosed no conflict of interest.*

Teater, Rachel H*Disclosed no conflict of interest.*

Teeter, Matthew9: CORS, Canadian RSA Network, ISTA.

Teguh, Dian A*Disclosed no conflict of interest.*

Telfer, Scott*Disclosed no conflict of interest.*

Tempfer, Herbert.....*Disclosed no conflict of interest.*

Terabe, Kenya*Disclosed no conflict of interest.*

Teredesai, Ankur3A: KenSci, Inc.

Terkawi, Alaa*Disclosed no conflict of interest.*

Terry, Ashley*Disclosed no conflict of interest.*

Tetteh, Gifty.....*Disclosed no conflict of interest.*

Tewari, Nikhil P.*Disclosed no conflict of interest.*

Thomas, Matthew A.....*Disclosed no conflict of interest.*

Thomopoulos, Stavros*Disclosed no conflict of interest.*

Thompson, Jacob D*Disclosed no conflict of interest.*

Thompson, William R*Disclosed no conflict of interest.*

Throckmorton, Thomas.....3B: Exactech, Inc; 7A: Exactech, Inc.

Tian, Yuan*Disclosed no conflict of interest.*

Timkovich, Ariel.....*Disclosed no conflict of interest.*

Titi, Hatem M.....*Disclosed no conflict of interest.*

Tiulpin, Aleksei*Disclosed no conflict of interest.*

Tkachev, Alexander*Disclosed no conflict of interest.*

Tokunaga, Kunihiko.....*Disclosed no conflict of interest.*

Tompkins, Marc A.*Disclosed no conflict of interest.*

Tone, Shine*Disclosed no conflict of interest.*

Tong, Xinming.....*Disclosed no conflict of interest.*

Tong, Yanrong.....*Disclosed no conflict of interest.*

Torrollion, Marine3A: Blue-Ortho.

Torzilli, Peter.....*Disclosed no conflict of interest.*

Toth, Jeffrey M.3B: Medtronic, Ossifi, Dymicron; 5: Medtronic.

Totonchy, Jennifer*Disclosed no conflict of interest.*

Tower, Robert J*Disclosed no conflict of interest.*

Toyra, Juha*Disclosed no conflict of interest.*

Tran, Victoria A*Disclosed no conflict of interest.*

Traweger, Andreas*Disclosed no conflict of interest.*

Trippel, Stephen3B: Pfizer; 7A: Johnson&Johnson

Trippel, Stephen B*Disclosed no conflict of interest.*

Trousdale, Will.....*Disclosed no conflict of interest.*

Tsai, Ariane*Disclosed no conflict of interest.*

Tsinman, Tonia K*Disclosed no conflict of interest.*

Tsourkas, Andrew*Disclosed no conflict of interest.*

Tsubosaka, Masanori*Disclosed no conflict of interest.*

Tsuchiya, Atsushi*Disclosed no conflict of interest.*

Tsuchiya, Saho*Disclosed no conflict of interest.*

Tuffaha, Sami H*Disclosed no conflict of interest.*

Tuladhar, Anik*Disclosed no conflict of interest.*

Turajane, Kathleen*Disclosed no conflict of interest.*

Twiggs, Joshua3A: 360 Med Care.

Tyson, Scrabeck*Disclosed no conflict of interest.*

Tzoc-Pacheco, Elias G.*Disclosed no conflict of interest.*

Ueki, Yasuyoshi*Disclosed no conflict of interest.*

Uemura, Keisuke*Disclosed no conflict of interest.*

Ukishiro, Kengo*Disclosed no conflict of interest.*

Unal, Mustafa*Disclosed no conflict of interest.*

Uppuganti, Sasidhar*Disclosed no conflict of interest.*

Urish, Kenneth5: Smith & Nephew.

Urish, Kenneth L3B: Peptilogics.

Vahidi, Ghazal*Disclosed no conflict of interest.*

Vail, Thomas*Disclosed no conflict of interest.*

van Arkel, Ewoud R.A.*Disclosed no conflict of interest.*

van Arkel, Richard J *Disclosed no conflict of interest.*

Van Citters, Douglas 3B: Medacta, Anika; 5: RevBio, DePuy Synthes, TJO, ConforMIS.

Van de Velde, Samuel *Disclosed no conflict of interest.*

van der Meulen, Marjolein C. H. *Disclosed no conflict of interest.*

Van Dillen, Linda *Disclosed no conflict of interest.*

van Hoogstraten, Sanne *Disclosed no conflict of interest.*

Van Rietbergen, Bert *Disclosed no conflict of interest.*

van Wijnen, Andre *Disclosed no conflict of interest.*

Vandenberg, Nicholas W *Disclosed no conflict of interest.*

Varadarajan, Kartik 3A: Stryker Corp; 8: Visionairy Health.

Varady, Nathan H *Disclosed no conflict of interest.*

Vargas-Vila, Mario A. *Disclosed no conflict of interest.*

Varner, Amanda J *Disclosed no conflict of interest.*

Vashishth, Deepak *Disclosed no conflict of interest.*

Vasquez-Bolanos, Laura S *Disclosed no conflict of interest.*

Vater, Corina *Disclosed no conflict of interest.*

Vaughan, Ted J *Disclosed no conflict of interest.*

Vedadghavami, Armin *Disclosed no conflict of interest.*

Vega, Sebastian L *Disclosed no conflict of interest.*

Verhaegen, Filip *Disclosed no conflict of interest.*

Viles, Ethan *Disclosed no conflict of interest.*

Vincent, Graham 3A: Stryker.

Visnes, Håvard *Disclosed no conflict of interest.*

von Toerne, Christine *Disclosed no conflict of interest.*

Vorrius, Brandon *Disclosed no conflict of interest.*

Voziyan, Paul *Disclosed no conflict of interest.*

Vukelic, Sinisa *Disclosed no conflict of interest.*

Wach, Amanda *Disclosed no conflict of interest.*

Wachs, Rebecca A. *Disclosed no conflict of interest.*

Wadhwa, Harsh *Disclosed no conflict of interest.*

Wagala, Nyaluma N.....*Disclosed no conflict of interest.*

Wagner, Diane.....*Disclosed no conflict of interest.*

Wai, Sun N.....*Disclosed no conflict of interest.*

Wakabayashi, Hiroki.....*Disclosed no conflict of interest.*

Walk, Remy.....*Disclosed no conflict of interest.*

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

Wallace, Joseph.....*Disclosed no conflict of interest.*

Wallace, Joseph.....9: Orthopaedic Research Society Section Chair.

Walsh, Conor.....*Disclosed no conflict of interest.*

Walter, Adam.....*Disclosed no conflict of interest.*

Waltz, Robert.....*Disclosed no conflict of interest.*

Wang, Chao.....*Disclosed no conflict of interest.*

Wang, Dong.....4: Dong is cofounder of Ensign Pharmaceutical.

Wang, Fei.....*Disclosed no conflict of interest.*

Wang, Jennifer.....*Disclosed no conflict of interest.*

Wang, Jinhua.....*Disclosed no conflict of interest.*

Wang, Junsig.....*Disclosed no conflict of interest.*

Wang, Kaidi.....*Disclosed no conflict of interest.*

Wang, Lai.....*Disclosed no conflict of interest.*

Wang, Tianbai.....*Disclosed no conflict of interest.*

Wang, William Y.....*Disclosed no conflict of interest.*

Wang, Xiaofang.....*Disclosed no conflict of interest.*

Wang, Yong.....*Disclosed no conflict of interest.*

Wang, Zexi.....*Disclosed no conflict of interest.*

Wanivenhaus, Florian.....*Disclosed no conflict of interest.*

Ward, Samuel R.....*Disclosed no conflict of interest.*

Warita, Takayuki.....3A: TUNZ Pharma Co. Ltd.

Warren, Russell.....1: Arthrex.

Warren, Russell F.....1: Arthrex and Zimmer Biomet; 4: AGelity Biomechanics, CyMedica Orthopedics, OrthoSensor, Stryker, Trice Medical, Zipline Medical.

Warrick, Adam*Disclosed no conflict of interest.*

Wastvedt, Solvejg*Disclosed no conflict of interest.*

Watanabe, Masahiko*Disclosed no conflict of interest.*

Watling, Jonathan3B: Exactech, Inc.

Watson, Steven L*Disclosed no conflict of interest.*

Weaver, Samantha R*Disclosed no conflict of interest.*

Weber, Eckhard5: Novartis.

Wegrzyn, Julien1: Dedienné santé; 3B: Stryker, Lima corporate; 5: Stryker.

Wei, Xin*Disclosed no conflict of interest.*

Wei, Yulong*Disclosed no conflict of interest.*

Wein, Marc N5: MNW receives research funding from Radius Health and Galapagos NV.

Weiner, Joseph*Disclosed no conflict of interest.*

Weiser, Jennifer R*Disclosed no conflict of interest.*

Weiss, Arnold-Peter*Disclosed no conflict of interest.*

Weiss, Richard*Disclosed no conflict of interest.*

Weiss, Stephanie*Disclosed no conflict of interest.*

Welhaven, Hope*Disclosed no conflict of interest.*

Wellik, Deneen M*Disclosed no conflict of interest.*

Werner, Frederick W4: Moximed; 9: Hand and Wrist Biomechanics International.

Westendorf, Jennifer J*Disclosed no conflict of interest.*

Westermann, Robert W.6: Smith and Nephew Education.

Westrich, Geoffrey3B: Ethicon, Exactech, Inc, Stryker; 7A: Exactech, Inc, Stryker; 9: Eastern Orthopedic Association.

Whichard, Chris*Disclosed no conflict of interest.*

Whitaker, Ross T*Disclosed no conflict of interest.*

White, Stephen E.3A: DePuy Synthes; 4: Johnson and Johnson.

Whitney, Kaitie E*Disclosed no conflict of interest.*

Whitt, Joshua P3A: Flexion Therapeutics, Inc; 4: Flexion Therapeutics, Inc.

Wilder, Lauren*Disclosed no conflict of interest.*

Wilkinson, J Mark5: Amgen Inc; 8: J Orthop Res, Bone Joint Res; 9: BORS, ORS, NJR, NICE.

Wilkinson, J Mark*Disclosed no conflict of interest.*

Willett, Thomas*Disclosed no conflict of interest.*

Willey, Michael*Disclosed no conflict of interest.*

Willey, Michael C.*Disclosed no conflict of interest.*

Williams, Ashley A*Disclosed no conflict of interest.*

Williams, Jack R.*Disclosed no conflict of interest.*

Williams, Jonathan*Disclosed no conflict of interest.*

Williams, Justin N*Disclosed no conflict of interest.*

Williams, Katherine*Disclosed no conflict of interest.*

Wimmer, Markus*Disclosed no conflict of interest.*

Winalski, Carl3B: Siemens; 4: Pfizer; 8: Osteoarthritis and Cartilage, Skeletal Radiology.

Winalski, Carl4: Pfizer Inc, General Electric Company; 6: BioClinica, Inc, Medical Metrics, Inc., PAREXEL International Corporation, CartiHeal Ltd.

Winders, Elizabeth A*Disclosed no conflict of interest.*

Windhagen, Henning*Disclosed no conflict of interest.*

Winkler, Philipp W.*Disclosed no conflict of interest.*

Wisniewski, Stephen*Disclosed no conflict of interest.*

Wittstein, Jocelyn R.6: Arthrex, Prodigy Surgical, Aesculap Biologics.

Wohlgemuth, Ross P*Disclosed no conflict of interest.*

Wolfe, Preston*Disclosed no conflict of interest.*

Wolfson, Julian*Disclosed no conflict of interest.*

Womack, Sydney J*Disclosed no conflict of interest.*

WONG, Ronald Man Yeung*Disclosed no conflict of interest.*

Wosinski, Pauline*Disclosed no conflict of interest.*

Wright, Melissa*Disclosed no conflict of interest.*

Wright, Timothy5: Lima Corporate; 7A: Exactech, Inc, Lima, Mathys Ltd; 9: American Joint Replacement Reg, Orthopaedic Research and Education Foundation.

Wu Martinez, Oliver*Disclosed no conflict of interest.*

Wu, Bin*Disclosed no conflict of interest.*

Wu, Chia-Lung*Disclosed no conflict of interest.*

Wu, Colleen*Disclosed no conflict of interest.*

Wu, Isabella T*Disclosed no conflict of interest.*

Wu, Meilun*Disclosed no conflict of interest.*

Wu, Tina*Disclosed no conflict of interest.*

Wu, Xiaobo*Disclosed no conflict of interest.*

Xia, Yunwei*Disclosed no conflict of interest.*

Xian, Cory6: NHMRC Australia.

Xiang, Justin*Disclosed no conflict of interest.*

Xiang, William*Disclosed no conflict of interest.*

Xiao, Li (Jasmine)*Disclosed no conflict of interest.*

Xiao, Michelle*Disclosed no conflict of interest.*

Xiao, Yao*Disclosed no conflict of interest.*

Xie, Emily*Disclosed no conflict of interest.*

Xing, Lianping*Disclosed no conflict of interest.*

Xing, Yuan*Disclosed no conflict of interest.*

Xu, Caiqi*Disclosed no conflict of interest.*

Xu, Jiajia*Disclosed no conflict of interest.*

Xu, Liang*Disclosed no conflict of interest.*

Xu, Winnie*Disclosed no conflict of interest.*

Yahiro, Kenichiro*Disclosed no conflict of interest.*

Yakkanti, Madhusudhan*Disclosed no conflict of interest.*

Yamada, Katsuhisa*Disclosed no conflict of interest.*

Yamaguchi, Jonathan*Disclosed no conflict of interest.*

Yan, Mingming*Disclosed no conflict of interest.*

Yang, Fan*Disclosed no conflict of interest.*

Yang, Mingrui*Disclosed no conflict of interest.*

Yang, Shumeng*Disclosed no conflict of interest.*

Yang, Xu*Disclosed no conflict of interest.*

Yang, Zhen*Disclosed no conflict of interest.*

Yanik, Elizabeth*Disclosed no conflict of interest.*

Yao, Lutian*Disclosed no conflict of interest.*

Yao, Zhenyu*Disclosed no conflict of interest.*

Yeo, Ingwon*Disclosed no conflict of interest.*

Yeritsyan, Diana.....*Disclosed no conflict of interest.*

Yew, Andy*Disclosed no conflict of interest.*

Yik, Jasper H.N.4: Tesio Pharmaceutical.

Yokota, Isao*Disclosed no conflict of interest.*

Yokota, Shunichi*Disclosed no conflict of interest.*

Yorgan, Timur*Disclosed no conflict of interest.*

Yoshida, Masahito*Disclosed no conflict of interest.*

Yoshikawa, Tomoya*Disclosed no conflict of interest.*

Yoshioka, Natalie.....*Disclosed no conflict of interest.*

Young, Nathan M.....*Disclosed no conflict of interest.*

Yousef, Mohamed*Disclosed no conflict of interest.*

Yu, Elaine W4: Opko; 5: Amgen; 8: JBMR, Bone; 9: ASBMR.

Yu, Kanglun*Disclosed no conflict of interest.*

Yu, Kristin.....*Disclosed no conflict of interest.*

Yu, Victoria*Disclosed no conflict of interest.*

Yu, Wei.....*Disclosed no conflict of interest.*

Yu, Yilin*Disclosed no conflict of interest.*

Yuan, Huipin3A: Kuros Biosciences BV; 4: Kuros Biosciences AG.

Yun, Chawon.....*Disclosed no conflict of interest.*

Zainul-Abidin, Suraya*Disclosed no conflict of interest.*

Zarei, Milad.....*Disclosed no conflict of interest.*

Zbyn, Stefan.....*Disclosed no conflict of interest.*

Zelik, Karl E*Disclosed no conflict of interest.*

Zenobi-Wong, Marcy.....*Disclosed no conflict of interest.*

Zgonis, Miltiadis*Disclosed no conflict of interest.*

Zgonis, Miltiadis H.....*Disclosed no conflict of interest.*

Zhai, Yuankun*Disclosed no conflict of interest.*

Zhang, Changli*Disclosed no conflict of interest.*

Zhang, Chenghao*Disclosed no conflict of interest.*

Zhang, Chenzhen*Disclosed no conflict of interest.*

Zhang, Guo-Fang*Disclosed no conflict of interest.*

Zhang, He*Disclosed no conflict of interest.*

Zhang, Hengwei*Disclosed no conflict of interest.*

Zhang, Hongmei*Disclosed no conflict of interest.*

Zhang, Hui*Disclosed no conflict of interest.*

Zhang, Jianing*Disclosed no conflict of interest.*

Zhang, Juncheng*Disclosed no conflict of interest.*

Zhang, Ling*Disclosed no conflict of interest.*

Zhang, Meng*Disclosed no conflict of interest.*

Zhang, Ning*Disclosed no conflict of interest.*

Zhang, Xinlin4: Bone Biologics Inc./Bone Biologics Corp.

Zhang, Xinping*Disclosed no conflict of interest.*

Zhang, Xiurui*Disclosed no conflict of interest.*

Zhang, Xueying*Disclosed no conflict of interest.*

Zhang, Ying*Disclosed no conflict of interest.*

Zhao, Gang3A: Gang is employee of Ensign Pharmaceutical; 4: Gang claims equity positions in Ensign Pharmaceutical.

Zhao, Hong*Disclosed no conflict of interest.*

Zheng, Guoxing*Disclosed no conflict of interest.*

Zheng, Hongjun*Disclosed no conflict of interest.*

Zhong, Leilei*Disclosed no conflict of interest.*

Zhou, Jiamin*Disclosed no conflict of interest.*

Zhu, Stanley*Disclosed no conflict of interest.*

Zhuang, Thompson*Disclosed no conflict of interest.*

Ziemnicki, David M*Disclosed no conflict of interest.*

Zike, Samuel*Disclosed no conflict of interest.*

Zimmer, Nicole E.*Disclosed no conflict of interest.*

Zimmermann, Elizabeth*Disclosed no conflict of interest.*

Zlotnick, Hannah.....*Disclosed no conflict of interest.*

Zlotnick, Hannah M*Disclosed no conflict of interest.*

Zwingenberger, Stefan*Disclosed no conflict of interest.*