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Annual NASS Disclosure Index

NASS is at the forefront of the field in ensuring that members are fully informed about medical professionalism and conflicts of interest. Members can utilize NASS' [Disclosure Module](#) to provide information about professional relationships from the source rather than a third party. Disclosures are updatable as often as relationships change and the module affords the ability to provide explanatory information.

The Board of Directors ruled in October 2011 to make disclosure information, in range format, available to the general public. The annual index includes any disclosure information that was provided to NASS after February 2012. One may not "opt out" of having one's disclosure made publically available. Anyone who completed or updated their record in the Disclosure Module after February 1, 2012 had to consent to have their information published online in order to submit disclosure.

Financial Range Levels:

Level A. \$100 to \$1000
Level B. \$1,001 to \$10,000
Level C. \$10,001 to \$25,000
Level D. \$25,001 to \$50,000
Level E. \$50,001 to \$100,000
Level F. \$100,001 to \$500,000
Level G. \$500,001 to \$1M
Level H. \$1,000,001 to \$2.5M
Level I. Greater than \$2.5M

NASS Disclosure Policy

NASS recognizes that professional relationships with industry are essential for development of new spine technologies and medical advancement. According to the NASS Committee on Ethics & Professionalism, which authored the disclosure policy, "the goal is to create an environment of scientific validity, in which learners can accurately judge whether the information they receive is objective and unbiased, and to be sure that our members are current and forthright in their dealings with one another and with their colleagues and patients." The establishment of uniform disclosure requirements frees individuals from having to decide which relationships might influence his or her decision-making and which are irrelevant; transparent disclosure allows the audience to participate in the interpretation

of the significance. For more information, please refer to the full NASS [Disclosure Policy](#) and [Disclosure FAQs](#).

2016 Annual Disclosure Index

Disclosures are current as of June 27, 2016. If your disclosure should be updated or corrected, please contact mquilliland@spine.org.

Aarabi, Bizhan: Nothing to Disclose

Aaronson, Oran S.: Nothing to Disclose

Abbasi, Hamid R.: Device or Biologic Distributorship (Physician-Owned Distributorship): ARS Medical (H).

Abdou, Samy: Royalties: NuVasive (F).

Abdulkhak, Muwaffak: Stock Ownership: Surgical Solutions (<1%); Consulting: Integra (Amount not disclosed).

Abduljabbar, Fahad H.: Nothing to Disclose

Abel, Mark: Trips/Travel: Medtronic (Travel expenses, Paid directly to institution/employer); Research Support - Staff and/or Materials: Harms Study Group (B, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: NIH (Research Support: Staff and/or Materials, Dissolved 06/2014, B).

Abjornson, Celeste: Consulting: Woven Orthopaedics (C), Paradigm Spine (D), Centinel Spine (D); Speaking and/or Teaching Arrangements: DePuy Spine (F, Paid directly to institution/employer); Research Support - Investigator Salary: Orthobond (B, Paid directly to institution/employer), NuTech Spine (F, Paid directly to institution/employer), Vertical Spine (D, Paid directly to institution/employer), Bacterin (F, Paid directly to institution/employer), NovaBone (E, Paid directly to institution/employer); Research Support - Staff and/or Materials: DePuy Synthes (E, Paid directly to institution/employer).

Abouelrigal, Manal: Nothing to Disclose

Aboushaala, Khaled A.: Nothing to Disclose

Abraamyan, Torgom: Nothing to Disclose

Abraham, Edward P.: Consulting: Medtronic (B); Speaking and/or Teaching Arrangements: Medtronic (A); Trips/Travel: Medtronic (A); Research Support - Staff and/or Materials: Medtronic (D).

Abtahi, Amir M.: Nothing to Disclose

Abushawish, Jordan A.: Nothing to Disclose

Acaroglu, Emre: Private Investments: incredX (<1%); Consulting: AOSpine (C); Speaking and/or Teaching Arrangements: AOSpine (B); Trips/Travel: AOSpine (B); Other Office: AOSpine (Board Membership); Research Support - Staff and/or Materials: DePuy Synthes (C, Paid directly to institution/employer); Grants: Eurospine (D, Paid directly to institution/employer); Fellowship Support: Medtronic (D, Paid directly to institution/employer).

Accousti, William: Speaking and/or Teaching Arrangements: K2M (B).

Acosta Perez, Rasiel: Nothing to Disclose

Acosta, Frank: Consulting: NuVasive (C).

Acosta, Frank L.: Consulting: NuVasive (C).

Adams, Erin: Nothing to Disclose

Adelt, Dieter: Consulting: Paradigm Spine GmbH (B, Paid directly to institution/employer); Scientific Advisory Board: Paradigm Spine GmbH (None); Relationships Outside the One-Year Requirement: Paradigm Spine GmbH (Trips/Travel: Dissolved 03/2007, Travel expenses).

Adogwa, Owoicho: Nothing to Disclose

Aghyarian, Shant: Nothing to Disclose

Aguilar, Thomas: Nothing to Disclose

Aguwa, Okezie K.: Grants: Cervical Spine Research Society (C, Paid directly to institution/employer).

Ahmadinia, Kasra: Nothing to Disclose

Ahmady, Arya: Other: Case Western Reserve University School of Medicine (Amount not disclosed).

Ahmed, Abdul-Kareem: Nothing to Disclose

Ahmed, Atif: Nothing to Disclose

Ahmed, Shihab: Speaking and/or Teaching Arrangements: International Spine Intervention Society and Department of Anesthesia, Critical Care and Pain Medici (B); Trips/Travel: International Spine Intervention Society (A); Research Support - Investigator Salary: Department of Anesthesia, Critical Care and Pain Medicine, MGH and MGH Center for Translational Pain Research (Amount not disclosed, Paid directly to institution/employer).

Ahn, Jae-Sung: Nothing to Disclose

Ahn, Joonghyun: Nothing to Disclose

Ahn, Junho: Nothing to Disclose

Ahn, Junyoung: Nothing to Disclose

Ahn, Nicholas U.: Device or Biologic Distributorship (Physician-Owned Distributorship): Ulrich (A); Scientific Advisory Board: Ohio Bureau of Worker's Compensation (None); Research Support - Staff and/or Materials: Ulrich (C).

Ahn, Uri M.: Royalties: Alphatec Spine (B, Paid directly to institution/employer); Stock Ownership: Osseus (<1%); Consulting: Osseus (C), Pinnacle (B); Trips/Travel: Pinnacle (A); Scientific Advisory Board: Pinnacle (A); Relationships Outside the One-Year Requirement: Spine 360 (Dissolved 2014, A).

Ahuja, Arvind: Nothing to Disclose

Aidlen, Jessica P.: Speaking and/or Teaching Arrangements: Stryker Spine (B).

Ailon, Tamir: Nothing to Disclose

Ailon, Tamir: Nothing to Disclose

Ajiboye, Remi M.: Nothing to Disclose

Akakin, Akin: Nothing to Disclose

Akbarnia, Behrooz A.: Royalties: DePuy Spine (E), K2M (B), NuVasive (C); Stock Ownership: NuVasive (<1%); Consulting: NuVasive (D), K2M (C), Ellipse (Amount not disclosed); Trips/Travel: NuVasive (Travel expenses), K2M (Travel expenses), Ellipse (Travel expenses); Board of Directors: San Diego Spine Foundation (None), Growing Spine Foundation (None); Scientific Advisory Board: K2M (Consulting disclosed); Research Support - Staff and/or Materials: NuVasive (E, Paid directly to institution/employer); Fellowship Support: NuVasive (E, Paid directly to institution/employer).

Akhgar, Javid: Nothing to Disclose

Akihiro, Iguchi: Nothing to Disclose

Akoto, Harry: Nothing to Disclose

Akuthota, Venu: Grants: Foundation for PM&R (B, Paid directly to institution/employer), University of Colorado Health and Welfare Trust (E, Paid directly to institution/employer); Other: PM&R Journal Senior Editor (B).

Al Jishi, Ahmed: Nothing to Disclose

Alabed, Yousef: Nothing to Disclose

Alanay, Ahmet: Consulting: DePuy Synthes (B, Paid directly to institution/employer); Trips/Travel: Medtronic, (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: DePuy Synthes (C, Paid directly to institution/employer); Grants: DePuy Synthes (B, Paid directly to institution/employer).

Alant, Jacob: Nothing to Disclose

Albanese, Stephen A.: Nothing to Disclose

Albert, Todd J.: Royalties: DePuy (H), Biomet (B); Stock Ownership: Facet-Link (B), Gentis (Medical Advisory Board, B), Crosstree (Amount not disclosed), Biometrix (Amount not disclosed), Paradigm Spine (250000 shares), In Vivo Therapeutics (Amount not disclosed), Spinicity (50000 shares), Invuity (15000 shares); Consulting: DePuy (C); Board of Directors: United Healthcare (None); Scientific Advisory Board: CSRS (Past President), SRS (Vice President), IMAST (Past Chair); Relationships Outside the One-Year Requirement: CSRS (Royalties, Dissolved 12/2008, A).

Albright, Lisa: Nothing to Disclose

Aldinger, Paul: Nothing to Disclose

Aleem, Ilyas: Nothing to Disclose

Aleksanderek, Izabela: Nothing to Disclose

Alentado, Vincent J.: Nothing to Disclose

Algattas, Hanna: Nothing to Disclose

Al-Habib, Amro F.: Nothing to Disclose

Alhammoud, Abduljabbar: Nothing to Disclose

Alhamzah, Hamzah: Nothing to Disclose

Ali, Mir H.: Consulting: K2M (B); Speaking and/or Teaching Arrangements: K2M (B); Trips/Travel: NuVasive (Travel expenses); Research Support - Staff and/or Materials: K2M (B).

Alijanipour, Pouya: Nothing to Disclose

Alimi, Marjan: Nothing to Disclose
 Alini, Mauro: Nothing to Disclose
 Aljurayyan, Abdulaziz N.: Nothing to Disclose
 Alkalay, Ron N: Nothing to Disclose
 Al-Natour, Mohammed: Nothing to Disclose
 Alobaid, Abdulrazzaq: Nothing to Disclose
 Al-Omari, Ali A.: Nothing to Disclose
 AlQahtani, Saad M.: Nothing to Disclose
 Altun, Idiris: Nothing to Disclose
 Alvarez, Luis: Consulting: Biomet (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Biomet (B, Paid directly to institution/employer); Trips/Travel: Biomet (A); Scientific Advisory Board: DePuy (A, Paid directly to institution/employer).
 Alves, Oscar: Nothing to Disclose
 Amabile, Celia: Nothing to Disclose
 Amaral, Rodrigo A.: Speaking and/or Teaching Arrangements: NuVasive (A); Trips/Travel: NuVasive (Travel expenses).
 Amaral, Terry D.: Research Support - Staff and/or Materials: DePuy (B, Paid directly to institution/employer), Medtronic (B), K2M (B, Paid directly to institution/employer), Stryker Spine (C, Paid directly to institution/employer).
 Ambrosino, Alicia: Nothing to Disclose
 Ameil, Marc: Nothing to Disclose
 Ames, Christopher P.: Royalties: Biomet Spine (E), Stryker (F); Consulting: Medtronic (B), DePuy (C), Stryker (B).
 Ames, Robert J.: Nothing to Disclose
 Aminian, Afshin: Royalties: Medtronic USA (D); Consulting: Medtronic (B); Speaking and/or Teaching Arrangements: Medtronic (A); Trips/Travel: Medtronic (A).
 Amiri, Shahram: Nothing to Disclose
 Amitai, Amir: Nothing to Disclose
 Amorosa, Louis F.: Nothing to Disclose
 Amritanand, Rohit: Nothing to Disclose
 An, Howard S.: Royalties: U&I (C), Zimmer Spine (B); Stock Ownership: U&I (<1%), Spinal Kinetics (<1%), Medyssey (<1%); Consulting: Bioventus (B); Board of Directors: Articular Engineering (21%); Scientific Advisory Board: Spinal Kinetics (<1%); Endowments: Rush University Medical Center (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: Yuhan (E, Paid directly to institution/employer); Grants: SpinalCyte (F, Paid directly to institution/employer); Fellowship Support: AOSpine (E, Paid directly to institution/employer).
 Anand, Neel: Royalties: Medtronic (F), NuVasive (D), Globus Medical (C); Stock Ownership: Globus (Amount not disclosed), Medtronic (Amount not disclosed); Private Investments: Paradigm Spine (<1%), Bonovo Orthopaedics (<1%), Pearl Diver (<1%), Theracell (<1%); Consulting: NuVasive (None); Speaking and/or Teaching Arrangements: Medtronic (B); Trips/Travel: Medtronic (Amount not disclosed); Scientific Advisory Board: Globus Medical (None).
 Ananthakrishnan, Dheera: Nothing to Disclose
 Andaloro, Antonio A.: Consulting: Johnson & Johnson DePuy Spine (B).
 Andelman, Steven: Nothing to Disclose
 Andersen, Mikkel: Nothing to Disclose
 Anderson, Aileen: Nothing to Disclose
 Anderson, Ashaunta: Nothing to Disclose

Anderson, D. Greg: Royalties: DePuy Synthes Spine (F); Stock Ownership: ISD (18%); Consulting: DePuy Synthes Spine (C); Speaking and/or Teaching Arrangements: DePuy Synthes Spine (C); Trips/Travel: DePuy Synthes Spine (B); Board of Directors: Society of Minimally Invasive Spinal Surgery (None); Scientific Advisory Board: ISD (None); Other Office: Society for Minimally Invasive Spinal Surgery (Chairman).

Anderson, Dennis: Nothing to Disclose

Anderson, Joshua T.: Nothing to Disclose

Anderson, Karen K.: Nothing to Disclose

Anderson, Paul A.: Royalties: Stryker (C), Pioneer/RTI (C); Stock Ownership: Pioneer (<1%), Titan Surgical (<1%), Expanding Orthopedics (<1%), Spartek (<1%); Consulting: Pioneer (None), Aesculap (C); Scientific Advisory Board: SI-BONE (Stock option); Other: JBJS Deputy Editor (B).

Andersson, Gunnar B.: Stock Ownership: Biomerix (<1%), Bonovo Orthopaedics (<1%), Crosstrees Biomedical (<1%), Ouroboros (<1%), Spartek Medical (30000 Shares), Spinal Kinetics (15000 Shares); Private Investments: Ascent Biomedical (<1%); Consulting: Zimmer (None); Board of Directors: International Society for the Advancement of Spine Surgery (None), International Society for the Study of the Lumbar Spine (None); Scientific Advisory Board: Zimmer (None), ISTO Technologies (B), BioSET (None), Ouroboros (None), Spartek Medical (Stock options), Spinal Kinetics (Stock options), United Healthcare (A).

Andersson, Ian: Nothing to Disclose

Andia, Marcelo: Nothing to Disclose

Aneiba, Khaled M.: Grants: MBA (B, Paid directly to institution/employer), TriMedica (B, Paid directly to institution/employer).

Angriman, Federico: Nothing to Disclose

Anissipour, Alireza K.: Nothing to Disclose

Annaswamy, Thiru M.: Consulting: Dane Street (B); Grants: Foundation for PM&R (B, Paid directly to institution/employer), NSF-National Science Foundation (A, Paid directly to institution/employer), PCORI-Via University of Washington; LESSER study (A, Paid directly to institution/employer); Other: AAPMR (Evidence-Based Practice Committee Chair), AAP (Board of Trustees Member).

Annis, Prokopis: Nothing to Disclose

Ansari, Muqtadeer A.: Scientific Advisory Board: Scientific Committee (None).

Anthony, Travis L.: Nothing to Disclose

Anwar, Muhammad: Nothing to Disclose

Apkarian, A. Vania: Nothing to Disclose

Araghi, Ali: Royalties: Globus (B); Stock Ownership: VTI (<1%); Private Investments: PDP (<1%), Bonovo (<1%), ISOI (<1%), Cold Plasma Technologies (<1%), SurgiFile (<1%), Ouroboros (<1%); Consulting: Globus (None); Speaking and/or Teaching Arrangements: LDR (C); Trips/Travel: Zyga (C); Board of Directors: American Board of Spine Surgery (None); Research Support - Investigator Salary: LDR (A), VertiFlex (A).

Arakal, Rajesh G.: Consulting: Johnson & Johnson (C); Speaking and/or Teaching Arrangements: DePuy (Amount not disclosed), Johnson & Johnson (Amount not disclosed); Trips/Travel: Johnson & Johnson (B).

Archer, Kristin: Nothing to Disclose

Ardeshiri, Ardeshir: Consulting: Intrinsic Therapeutics (A); Speaking and/or Teaching Arrangements: Intrinsic Therapeutics (A); Trips/Travel: Intrinsic Therapeutics (B).

Ardura, Francisco: Consulting: Vexim S.A. (B, Paid directly to institution/employer), Neo Medical S.A. (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Vexim S.A. (B, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Vexim S.A. (Research Support: Investigator Salary, Dissolved 12/2014, C).

Arizumi, Fumihiro: Nothing to Disclose
Arnaout, Mohamed: Nothing to Disclose
Arnold, Joshua H.: Nothing to Disclose
Arnold, Paul M.: Stock Ownership: Z-Plasty (<1%); Private Investments: Z-Plasty (<1%); Consulting: Stryker Spine (D), Medtronic Sofamor Danek (C), FzioMed (C); Speaking and/or Teaching Arrangements: University of Missouri (A); Trips/Travel: AOSpine North America (B); Board of Directors: Lumbar Spine Research Society (LSRS) (Co-Chair of the Program Committee).
Arockiaraj, Justin: Nothing to Disclose
Arpinar, Volkan: Nothing to Disclose
Arrotegui, Inaki: Nothing to Disclose
Arun, Kumar: Nothing to Disclose
Asch, Steven: Nothing to Disclose
Asdourian, Paul L.: Royalties: Alphatec Spine (F), Globus (B); Stock Ownership: Globus (<1%); Private Investments: Paradigm Spine (<1%), Vertebral Technologies (9%); Board of Directors: Vertebral Technologies (100,000 shares); Scientific Advisory Board: Vertebral Technology (50,000 shares).
Asemota, Anthony: Nothing to Disclose
Asfour, Shihab: Nothing to Disclose
Ashana, Adedayo O.: Nothing to Disclose
Asher, Anthony L.: Stock Ownership: HyperBranch Medical Technologies (<1%); Consulting: Medtronic (Amount not disclosed); Board of Directors: NeuroPoint Alliance (Travel expenses); Grants: Neurosurgical Research and Education Foundation (E); Relationships Outside the One-Year Requirement: NeuroPoint Alliance (Board of Directors, Travel expenses).
Ashouri, Feras: Nothing to Disclose
Assi, Ayman: Nothing to Disclose
Assietti, Roberto: Nothing to Disclose
Astur Neto, Nelson: Nothing to Disclose
Atalay, Basar: Nothing to Disclose
Atanda, Abiola: Nothing to Disclose
Atlas, Steven J.: Royalties: UpToDate (B); Other: Healthwise (Amount not disclosed, Paid directly to institution/employer).
Aubin, Carl-Eric: Consulting: Medtronic (F, Paid directly to institution/employer), Zimmer CAS (F, Paid directly to institution/employer), Rodin4D (D, Paid directly to institution/employer), Boston Brace (D, Paid directly to institution/employer); Grants: Medtronic (F, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Medtronic (Grant, 02/2017, F).
Audley, Brittany: Nothing to Disclose
Audlin, Jason: Nothing to Disclose
Auston, Darryl A.: Nothing to Disclose
Avramis, Ioannis A.: Nothing to Disclose
Ayala Garcia, Mikel: Nothing to Disclose
Ayamga, Jennifer: Nothing to Disclose
Ayan, Saankritya: Nothing to Disclose
Aydinli, Ufuk: Nothing to Disclose
Azad, Tej D.: Nothing to Disclose
Azevedo, Gustavo B.: Nothing to Disclose
Babayev, Rasim: Nothing to Disclose
Babic, Drazenko: Nothing to Disclose
Baco, Abdul Moeen: Nothing to Disclose

Bacon, Adam: Nothing to Disclose

Badley, Elizabeth: Nothing to Disclose

Bae, Hyun W.: Royalties: Stryker (D), NuVasive (D), Zimmer (B), Biomet (B); Stock Ownership: DiFusion (12000 Shares), Spinal Restoration (10000 Shares); Private Investments: Ascent (20%); Consulting: Stryker (C); Speaking and/or Teaching Arrangements: Synthes (C); Board of Directors: Prosidyan (Stock options); Scientific Advisory Board: Spinal Restoration (Stock options), DiFusion (Amount not disclosed, Stock options); Research Support - Staff and/or Materials: Medtronic (C, Paid directly to institution/employer), Mesoblast (C, Paid directly to institution/employer), LDR Spine (D, Paid directly to institution/employer), Paradigm Spine (B, Paid directly to institution/employer), Bioness (D, Paid directly to institution/employer), ISTO Technologies (C, Paid directly to institution/employer), Relieva Medsystems (D, Paid directly to institution/employer); Grants: CIRM (I).

Bae, Jinwoo: Nothing to Disclose

Baeesa, Saleh S.: Consulting: Alphatec (B, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer), Globus (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Alphatec (A, Paid directly to institution/employer), Medtronic (A), Globus (A, Paid directly to institution/employer); Trips/Travel: Alphatec (Consulting disclosed), Medtronic (Consulting disclosed), and Globus Companies (Consulting disclosed).

Bagheri, Ali: Nothing to Disclose

Bagheri, Ramin: Royalties: NuVasive Spine (E), Lanx (C); Stock Ownership: Alphatec Spine (<1%); Private Investments: Nocimed (<1%); Consulting: NuVasive Spine (B); Speaking and/or Teaching Arrangements: NuVasive (C); Trips/Travel: NuVasive Spine (A); Research Support - Staff and/or Materials: NuVasive Spine (C); Grants: NuVasive Spine (D); Fellowship Support: NuVasive Spine (D).

Bagley, Carlos A.: Consulting: K2M (B).

Bains, Ravi S.: Royalties: NuVasive (C).

Baisden, Jamie: Nothing to Disclose

Baker, Joseph F.: Nothing to Disclose

Baker, Kelly: Other Office: Globus Medical (Salary).

Baker, Ray M.: Stock Ownership: Relieva MedSystems (<1%); Private Investments: Nocimed (1.78%), Laurimed (<1%); Consulting: UnitedHealthcare (B, UHC Spine Advisory Board Chair), Mesoblast (C); Board of Directors: SIS (Past President); Scientific Advisory Board: Veritas Health (B).

Bakhsh, Wajeeh: Nothing to Disclose

Bal, Japjot: Nothing to Disclose

Bala, Abiram: Nothing to Disclose

Balasubramanian, Sriram: Nothing to Disclose

Balboni, Tracy: Nothing to Disclose

Baldus, Christine R.: Nothing to Disclose

Baldwin, Nevan G.: Royalties: NuVasive (D); Consulting: K2M (C); Speaking and/or Teaching Arrangements: K2M (B); Trips/Travel: K2M (A); Scientific Advisory Board: K2M (Consulting disclosed).

Ball, Kevin: Nothing to Disclose

Balsano, Massimo: Nothing to Disclose

Banagan, Kelley E.: Nothing to Disclose

Bao, Hongda: Nothing to Disclose

Bao, Mike: Nothing to Disclose

Baran, Sarah E.: Other Office: SpecialtyCare (Salary).

Barbagallo, Giuseppe: Consulting: DePuy Synthes (A, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: DePuy Synthes (A); Trips/Travel: DePuy Synthes (Travel expenses); Grants: DePuy Synthes (B).

Barbe, Mary F.: Nothing to Disclose

Barcohana, Babak: Royalties: Pioneer (B), NeuroStructures (B), Pinnacle Spine (A), NeoSpine (A); Stock Ownership: Alphatec (<1%); Consulting: Prosidyan (None), SpineVision (None).

Barnes, Brian: Nothing to Disclose

Baron, Eli M.: Royalties: Elsevier (B), McGraw Hill (B); Speaking and/or Teaching Arrangements: NuVasive (A).

Barrios, Carlos: Nothing to Disclose

Barrios, Eloy: Nothing to Disclose

Barron, Mark T.: Nothing to Disclose

Barrus, Michael: Stock Ownership: K2M (Salary).

Barry, Jeffrey J.: Nothing to Disclose

Barry, Sean: Nothing to Disclose

Bartels, Ronald: Nothing to Disclose

Barth, Kathryn: Nothing to Disclose

Barth, Martin: Nothing to Disclose

Bartol, Stephen: Private Investments: Sentio (24%); Consulting: LDR (B); Trips/Travel: Stryker (A); Board of Directors: Sentio (Board); Scientific Advisory Board: Musculoskeletal Transplant Foundation (A, Medical Board of Trustees); Research Support - Investigator Salary: BCBS of Michigan (E, Paid directly to institution/employer).

Barton, Cameron: Nothing to Disclose

Barton, Dane: Nothing to Disclose

Barzilay, Yair: Stock Ownership: Mazor Robotics (<1%); Consulting: Mazor Surgical Technologies (B, Paid directly to institution/employer); Scientific Advisory Board: ControlRad Systems (Stock options, Paid directly to institution/employer).

Basheer, Azam: Nothing to Disclose

Basho, Rahul: Nothing to Disclose

Basques, Bryce: Nothing to Disclose

Bassi, Anupreet: Nothing to Disclose

Batke, Juliet N.: Consulting: Rick Hansen Institute (A), AOSpine International (B).

Bauernfeind, Mark: Nothing to Disclose

Baumblatt, Geri: Stock Ownership: Emmi Solutions (<1%).

Baumer, Timothy: Nothing to Disclose

Baweja, Reena K.: Nothing to Disclose

Bazerbashi, Mohamad: Nothing to Disclose

Beall, Douglas P.: Device or Biologic Distributorship (Physician-Owned Distributorship): Medtronic (E), Alphatec Spine (A), Synthes (B), Eli Lilly (D), Amendia (A), Benvenue (C); Stock Ownership: Spineology (20000 Shares), Vexim (<1%), Amendia (2000 Shares); Consulting: Medtronic (E), Eli Lilly (D), Vexim (C); Speaking and/or Teaching Arrangements: Medtronic (E), Eli Lilly (D); Trips/Travel: Medtronic (B), Vexim (B), Benvenue (B); Board of Directors: Vexim (C); Research Support - Investigator Salary: Alphatec Spine (D); Research Support - Staff and/or Materials: Benvenue (B).

Beaurain, Jacques: Royalties: LDR Medical (E); Stock Ownership: LDRH (<1%); Consulting: LDR Medical (B); Speaking and/or Teaching Arrangements: LDR Medical (None); Trips/Travel: LDR Medical (None).

Becchetti, Flavio: Nothing to Disclose

Becerra Ospina, Jaime Eduardo: Nothing to Disclose

Bechtold, Joan E.: Board of Directors: World Congress of Biomechanics (None); Endowments: University of Minnesota (C); Research Support - Investigator Salary: SI-BONE (E, Paid directly to institution/employer); Research Support - Staff and/or Materials: Medtronic (D, Paid directly to institution/employer); Grants: FocusStart (D, Paid directly to institution/employer).

Beckerman, Daniel: Nothing to Disclose

Beckman, Lorne: Nothing to Disclose

Bederman, S. Samuel: Royalties: SpineArt (D); Consulting: SpineArt (B), Ulrich Medical USA (B), Mazor Robotics (B), Vertebral Technologies (B).

Bednar, Drew A.: Consulting: Lilly Pharmaceuticals (B); Speaking and/or Teaching Arrangements: Lilly Pharmaceuticals (B).

Bedoya, Maria: Device or Biologic Distributorship (Physician-Owned Distributorship): Suplemedicos (B, Paid directly to institution/employer); Trips/Travel: Medtronic, (B).

Behrend, Caleb J.: Nothing to Disclose

Bejin, Brieta: Other Office: Zimmer Biomet Spine (Salary); Relationships Outside the One-Year Requirement: Zimmer Biomet Spine (Salary).

Belanger, Theodore A.: Consulting: Centinel Spine (B).

Belayneh, Rebekah: Nothing to Disclose

Belding, Jon: Nothing to Disclose

Belin, Eric J.: Nothing to Disclose

Bell, David: Nothing to Disclose

Bell, Kevin M.: Nothing to Disclose

Belsuzarri, Telmo Augusto B.: Nothing to Disclose

Belzarena Genovese, Ana Cecilia: Nothing to Disclose

Bendo, John A.: Relationships Outside the One-Year Requirement: Synthes Spine (Consulting, Dissolved 11/2009, C).

Benedict, James: Nothing to Disclose

Bennett, Chase: Stock Ownership: GYS Tech (<1%), ListRunner (<1%); Consulting: GYS Tech (Amount not disclosed, Spinal Advisory Board Member); Other Office: ListRunner (Amount not disclosed, Quality Improvement Lead).

Bennett, Elizabeth: Nothing to Disclose

Bennett, Elizabeth E.: Nothing to Disclose

Ben-Porath, Yossef S.: Royalties: University of Minnesota (E); Consulting: University of Minnesota (C); Speaking and/or Teaching Arrangements: University of Minnesota (D); Trips/Travel: Pearson (D); Research Support - Investigator Salary: University of Minnesota (E); Research Support - Staff and/or Materials: University of Minnesota (A); Grants: University of Minnesota (A).

Benzel, Edward C.: Stock Ownership: OrthoMEMS (<1%), AxioMed (<1%); Private Investments: AxioMed (<1%); Consulting: Turning Point (1%); Speaking and/or Teaching Arrangements: DePuy (None); Scientific Advisory Board: OrthoMEMS (Amount not disclosed), Turning Point (Consulting disclosed).

Bergamini, Thomas: Nothing to Disclose

Bergmann, Libby: Device or Biologic Distributorship (Physician-Owned Distributorship): KRP Medical (D); Research Support - Staff and/or Materials: Providence Medical Technologies (A, Paid directly to institution/employer), NuVasive (A).

Beringer, William F.: Consulting: Ulrich Spine (None), Spine Wave (None); Speaking and/or Teaching Arrangements: LDR Spine (B).

Berland, Daniel: Nothing to Disclose

Bernard, Pierre: Royalties: Scient'x (D), Medicea (B), LDR Spine (E); Stock Ownership: LDR Spine (<1%); Trips/Travel: LDR Spine (B).

Bernard, Thierry: Other Office: DePuy Synthes (E).

Bernatz, James: Nothing to Disclose

Bertollo, Nicky: Nothing to Disclose

Bertsch, Judson: Nothing to Disclose

Berven, Sigurd H.: Royalties: Medtronic (F); Stock Ownership: Providence Medical (<1%); Speaking and/or Teaching Arrangements: Medtronic (B), Stryker Spine (D), Globus Medical (B); Trips/Travel: Scoliosis Research Society (Travel expenses, Paid directly to institution/employer); Board of Directors: Stryker Spine (None); Scientific Advisory Board: Globus Medical (Stock options); Grants: AOSpine (E, Paid directly to institution/employer), Globus (D, Paid directly to institution/employer); Fellowship Support: Globus Medical (D).

Bess, Shay: Royalties: Pioneer (B); Consulting: K2M (B), AlloSource (B); Speaking and/or Teaching Arrangements: K2M (B); Trips/Travel: K2M (B); Scientific Advisory Board: AlloSource (B); Grants: DePuy Spine (B, Paid directly to institution/employer), Medtronic (A, Paid directly to institution/employer), K2 Medical (A, Paid directly to institution/employer), Innovasis (E, Paid directly to institution/employer), Biomet (D, Paid directly to institution/employer).

Bethea, Synthia: Nothing to Disclose

Betsch, Marcel: Nothing to Disclose

Bettegowda, Chetan: Nothing to Disclose

Betz, Randal R.: Royalties: DePuy Spine (B), Medtronic (B); Stock Ownership: Abyrx (<1%), Medovex (25000 Shares), MiMedx (31000 Shares), Advanced Vertebral Solutions (5000 Shares), SpineMedica (25000 Shares), SpineGuard (0%); Consulting: DePuy Synthes Spine (B), SpineGuard (B), Abyrx (B), Zimmer-Biomet (B), Globus Medical (B), Medtronic (B); Speaking and/or Teaching Arrangements: DePuy Spine (C); Scientific Advisory Board: DePuy Synthes Spine (B).

Beuscha, Inge: Nothing to Disclose

Beutler, William: Royalties: Globus Medical (D), Aesculap (B); Stock Ownership: Globus Medical (<1%); Consulting: Globus Medical (A), Carevature (A); Scientific Advisory Board: Globus Medical (A).

Bey, Michael J.: Nothing to Disclose

Beyer, Lisa C.: Nothing to Disclose

Bhagwat, Kishan R: Nothing to Disclose

Bhalla, Amandeep: Nothing to Disclose

Bhamb, Neil: Nothing to Disclose

Bhandari, Mohit: Consulting: Stryker (Amount not disclosed), Smith & Nephew (Amount not disclosed), Amgen (Amount not disclosed), Zimmer (Amount not disclosed), Moximed (Amount not disclosed), Bioventus (Amount not disclosed), Merck (Amount not disclosed), Eli Lilly (Amount not disclosed), Sanofi (Amount not disclosed), ConMed (Amount not disclosed); Speaking and/or Teaching Arrangements: Smith and Nephew (Amount not disclosed); Scientific Advisory Board: Pfizer (Amount not disclosed), King Pharmaceuticals (Amount not disclosed), Amgen (Amount not disclosed); Research Support - Staff and/or Materials: Smith and Nephew (E), Stryker/OTC (D); Grants: Stryker (E).

Bhat, Suneel: Nothing to Disclose

Bhatia, Nitin N.: Royalties: Alphatec Spine (D), SeaSpine (E), Biomet (C), Stryker (C); Stock Ownership: DiFusion (<1%); Consulting: Biomet Spine (B), Stryker Spine (A), Alphatec Spine (B), SeaSpine (B), SpineArt (E); Scientific Advisory Board: DiFusion (Stock option).

Bhatia, Pallav: Nothing to Disclose

Bhatt, Surabhi: Nothing to Disclose

Bhattacharya, Sanghita: Other: Employee (Salary).

Bi, Ni: Nothing to Disclose

Bianco, Aaron J.: Nothing to Disclose

Bianco, Kristina: Nothing to Disclose

Bianco, Rohan-Jean: Nothing to Disclose

Bible, Jesse E.: Other Office: American Journal of Orthopaedics Resident Advisory Board (None), Spine Journal (None), Spine (None).

Bice, Miranda: Nothing to Disclose

Bidos, Andrew: Nothing to Disclose

Bidre, Upendra N.: Research Support - Staff and/or Materials: Medtronic India (B, Paid directly to institution/employer).

Biegeleisen, Lea: Nothing to Disclose

Bieszczad, Jacob: Nothing to Disclose

Bigney, Erin: Nothing to Disclose

Bijjawara, Mahesh H.: Consulting: Medtronic India (A, Paid directly to institution/employer), Ulrich Medical (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic India (B, Paid directly to institution/employer); Trips/Travel: Medtronic India (B), Ulrich Medical (B); Research Support - Staff and/or Materials: Medtronic India and Ulrich (B, Paid directly to institution/employer), Ulrich Medical (B, Paid directly to institution/employer).

Bilsky, Mark H.: Royalties: DePuy Spine (A); Consulting: Globus (B); Speaking and/or Teaching Arrangements: Globus (B); Scientific Advisory Board: Varian (B).

Binder, David: Nothing to Disclose

Biraghi Letaif, Olavo: Speaking and/or Teaching Arrangements: DePuy Synthes (Amount not disclosed, Paid directly to institution/employer); Trips/Travel: DePuy Synthes (B).

Bird, Mackenzie L.: Nothing to Disclose

Birkedal, John P.: Relationships Outside the One-Year Requirement: Synthes Spine (Research Support: Staff and/or Materials, Dissolved 06/2014, B).

Bisirri, Evan: Nothing to Disclose

Biyani, Ashok: Royalties: Globus Medical (E), Custom Spine (C); Consulting: K2M (B).

Bjerke, Benjamin T.: Nothing to Disclose

Blackburn, Brian: Nothing to Disclose

Blakemore, Laurel: Consulting: K2M (D); Research Support - Staff and/or Materials: K2M (A, Paid directly to institution/employer).

Blanco, Juan F.: Nothing to Disclose

Blank, Kenneth R.: Nothing to Disclose

Blanke, Kathy: Nothing to Disclose

Blasier, R. Dale: Nothing to Disclose

Blaskiewicz, Donald J.: Royalties: NuVasive (B); Consulting: NuVasive (C); Speaking and/or Teaching Arrangements: NuVasive (D).

Blecher, Carl M.: Nothing to Disclose

Blizzard, Daniel J.: Nothing to Disclose

Blizzard, Sabina R.: Nothing to Disclose

Bloch, Daniel: Consulting: Pulmonx (B).

Block, Andrew R.: Research Support - Staff and/or Materials: University of Minnesota Press (C, Paid directly to institution/employer).

Blondel, Benjamin: Consulting: Medicea (B).

Blumberg, Kalman D.: Royalties: NuVasive (C).

Blumenthal, Scott L.: Stock Ownership: FzioMed (<1%), VertiFlex (<1%), Centinel Spine (<1%); Speaking and/or Teaching Arrangements: LDR (C), VertiFlex (B), Aesculap Spine (D); Scientific Advisory Board: Aesculap (B), FzioMed (None), VertiFlex (C).

Boachie-Adjei, Oheneba: Royalties: K2M (E), Weigao (E); Stock Ownership: K2M (E); Consulting: K2M (D), Weigao (D); Speaking and/or Teaching Arrangements: K2M (B), Weigao (B); Trips/Travel: K2M (B),

Weigao (B); Scientific Advisory Board: K2M (C); Research Support - Staff and/or Materials: K2M (A); Fellowship Support: K2M (B).

Boakye, Maxwell: Nothing to Disclose

Boden, Scott: Royalties: Medtronic (E); Other Office: SkelRegen (Chief Science Officer).

Bodor, Marko: Nothing to Disclose

Bohl, Daniel D.: Grants: CSRS (B, Paid directly to institution/employer).

Bohm, Parker: Nothing to Disclose

Boissiere, Louis: Grants: DePuy Synthes (D, Paid directly to institution/employer).

Bokshan, Steven: Nothing to Disclose

Boland, Patrick J: Nothing to Disclose

Bolognesi, Michael: Nothing to Disclose

Bolt, Patrick M.: Nothing to Disclose

Bonanni, Pierino G.: Nothing to Disclose

Boniello, Anthony J.: Nothing to Disclose

Bonin, Andrew A.: Nothing to Disclose

Bono, Christopher M.: Royalties: Wolters Kluwer (B); Consulting: CRICO (B), United Health Care (B, Advisory Board); Board of Directors: North American Spine Society (D, President); Other Office: JAAOS (B, Deputy Editor Stipend); Fellowship Support: OMEGA (D, Paid directly to institution/employer).

Bonsanto, M.M.: Nothing to Disclose

Borde, Brandon: Nothing to Disclose

Boriani, Stefano: Nothing to Disclose

Borman, Timothy R.: Nothing to Disclose

Borowsky, Claude D.: Relationships Outside the One-Year Requirement: Forest (Speaking and/or Teaching Arrangement, Dissolved 12/2009, NASS Advocacy).

Bostelmann, Richard: Relationships Outside the One-Year Requirement: Intrinsic Therapeutics (Research Support: Investigator Salary, 12/2016, B).

Bostian, Phillip A.: Other Office: West Virginia Orthopaedic Society (Amount not disclosed).

Bouchard, Jacques A.: Nothing to Disclose

Bouloussa, Houssam: Consulting: EOS Imaging (A), ProvenMed Technologies (None); Speaking and/or Teaching Arrangements: EOS Imaging (A); Trips/Travel: EOS Imaging (B); Relationships Outside the One-Year Requirement: EOS Imaging (Trips/Travel, Dissolved 12/2014, B).

Bouma, Gerrit J.: Research Support - Staff and/or Materials: Intrinsic Therapeutics (E, Paid directly to institution/employer).

Bourghli, Anouar: Nothing to Disclose

Bowles, Robby: Nothing to Disclose

Boyan, Barbara D.: Stock Ownership: Carticept Medical (<1%), Cartiva (<1%); Private Investments: Carticept Medical (<1%); Consulting: Exactech (B); Speaking and/or Teaching Arrangements: Titan Spine (B); Trips/Travel: Titan Spine (B); Board of Directors: Cartiva (Stock Ownership disclosed); Scientific Advisory Board: Titan Spine (B); Research Support - Staff and/or Materials: Titan Spine (C, Paid directly to institution/employer); Grants: Institut Straumann AG (F, Paid directly to institution/employer).

Boyce-Fappiano, David: Nothing to Disclose

Boylan, Matthew R.: Nothing to Disclose

Brady, Jeremy: Nothing to Disclose

Brady, O'Dane: Consulting: Pacira Pharmaceuticals (C); Scientific Advisory Board: Global Spine Care Initiative (Travel expenses); Other: World Spine Care (Research committee).

Branch, Charles L.: Royalties: Medtronic (F, Paid directly to institution/employer); Consulting: Medtronic (F); Speaking and/or Teaching Arrangements: Medtronic (Consulting disclosed); Board of Directors: CSRF (None), Board of the Childress Institute for Pediatric Trauma (None), Board of Directors of Eastern European Missions (None); Scientific Advisory Board: Medtronic (Consulting disclosed).

Bransford, Richard J.: Speaking and/or Teaching Arrangements: Globus (B), AOSpine North America (C); Grants: Synthes DePuy (B, Paid directly to institution/employer); Fellowship Support: DePuy Synthes (E, Paid directly to institution/employer), AOSpine (E, Paid directly to institution/employer).

Brara, Harsimran: Nothing to Disclose

Bratcher, Kelly R.: Nothing to Disclose

Braun, Yvonne: Nothing to Disclose

Brea, Bielinsky: Nothing to Disclose

Brecevich, Antonio T.: Stock Ownership: Vertical Spine (<1%).

Brechbuhler, Jennifer L.: Nothing to Disclose

Bregman Amitai, Orna: Nothing to Disclose

Brennan, Tara: Nothing to Disclose

Brenner, Robert: Nothing to Disclose

Brenner, Tara: Nothing to Disclose

Brice, Sara: Nothing to Disclose

Bridwell, Keith H.: Grants: NIH (F, Paid directly to institution/employer); Fellowship Support: AOSpine North America (E, Paid directly to institution/employer).

Briski, David C.: Nothing to Disclose

Brito, Leandro: Nothing to Disclose

Brodke, Darrel S.: Royalties: Amedica (F), DePuy Synthes (H), Medtronic (C); Stock Ownership: Amedica (<1%); Consulting: Amedica (A); Board of Directors: CSRS (None); Fellowship Support: AOSpine (E, Paid directly to institution/employer).

Brodth, Erika D.: Nothing to Disclose

Bronheim, Rachel: Nothing to Disclose

Bronson, Wesley: Nothing to Disclose

Brook, Allan L.: Consulting: Medtronic (B); Scientific Advisory Board: CareFusion (B); Other: DePuy (B).

Brooks, Jaysson T.: Nothing to Disclose

Brothers, Alexander: Nothing to Disclose

Brouillette, Matthew: Nothing to Disclose

Brown, Alan B.: Stock Ownership: Nor Am Medical (<1%); Private Investments: Stabl Spine (<1%); Consulting: Alphatec Spine (44,000 Shares); Trips/Travel: Stryker (A), Alphatec Spine (A).

Brown, Cameron M.: Nothing to Disclose

Brown, Cathleen: Consulting: Arthrex (A, Paid directly to institution/employer); Research Support - Investigator Salary: Arthrex (A, Paid directly to institution/employer); Grants: Arthrex (Research Support – Investigator Salary disclosed).

Brown, Christopher: Nothing to Disclose

Brown, Derek: Nothing to Disclose

Brumagne, Simon: Nothing to Disclose

Bruns, Daniel: Royalties: Pearson Assessments (D, Paid directly to institution/employer); Scientific Advisory Board: Medtronic (B, Paid directly to institution/employer); Other Office: American Psychological Association (Travel expenses, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: North American Spine Society (Speaking and/or Teaching Arrangement, Dissolved 10/2015, Travel expenses), American Academy of Physical Medicine and Rehabilitation (Speaking and/or Teaching Arrangement, Dissolved 06/2015, A).

Bucca, Antonino: Nothing to Disclose

Buchholz, Joseph: Nothing to Disclose

Buchowski, Jacob M.: Royalties: Wolters Kluwer Health (A), Globus Medical (D); Consulting: Advance Medical (E), CoreLink (B), GLG Gerson Lehrman Group (A), Globus Medical (B), Medtronic (B); Speaking and/or Teaching Arrangements: Broadwater/Vertical Health (A), DePuy (C), Globus Medical (B), Orthofix (C); Trips/Travel: Global Spine Tumor Study Group (GSTSG) (Travel expenses), AO Foundation (Travel expenses), DePuy (Travel expenses), Medtronic (Travel expenses), ISSG (Travel expenses), Orthofix (Travel expenses); Board of Directors: CSRS (Board Member, Program Committee, Research Committee, Resident/Fellow Grant Sub-Committee Chair); Scientific Advisory Board: AOA Investment Committee (None).

Buckland, Aaron J.: Nothing to Disclose

Bucklen, Brandon: Other Office: Globus Medical (Salary).

Buckley, Rudolph A.: Royalties: NuVasive (D, Paid directly to institution/employer); Stock Ownership: pioneer (36000 Shares); Private Investments: Disc Motion Technologies (None); Board of Directors: Morehouse School of Medicine (Board of Advisors).

Buehler, Mark: Nothing to Disclose

Buerba, Rafael A.: Nothing to Disclose

Bullard, Dennis E.: Royalties: LifeSpine (B); Consulting: LifeSpine (E), ISTO (C), Spine Select (E), BioD (E); Trips/Travel: BioD (B), Spine Select (B); Relationships Outside the One-Year Requirement: DePuy Spine (Royalties, Dissolved 03/2007, B).

Bullock, Letitia: Nothing to Disclose

Bumpass, David B.: Nothing to Disclose

Bundy, Justin V.: Royalties: Globus Medical (D); Consulting: NuVasive (B); Speaking and/or Teaching Arrangements: NuVasive (B); Trips/Travel: NuVasive (B).

Bunmaprasert, Torphong: Nothing to Disclose

Buraimoh, Ayodele: Nothing to Disclose

Burch, Shane: Consulting: Medtronic (B); Speaking and/or Teaching Arrangements: Medtronic (C); Scientific Advisory Board: Medtronic Navigation (B); Research Support - Staff and/or Materials: Lily (E, Paid directly to institution/employer); Fellowship Support: NuVasive (D, Paid directly to institution/employer), Globus (E, Paid directly to institution/employer), AOSpine (D).

Burd, Timothy A.: Stock Ownership: Custom Spine (13%, Paid directly to institution/employer).

Burger, Evalina L.: Consulting: Medcrea (D, Paid directly to institution/employer), SIGNUS Spine (A, Paid directly to institution/employer), Paradigm Spine (A, Paid directly to institution/employer); Trips/Travel: Medcrea (B, Paid directly to institution/employer); Research Support - Investigator Salary: Medcrea (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: Medtronic Sofamor-Danek (E), Integra LifeSciences (D, Paid directly to institution/employer), Aesculap (F, Paid directly to institution/employer), Synthes (E, Paid directly to institution/employer), INSITE (B, Paid directly to institution/employer), VertiFlex (E, Paid directly to institution/employer), Medcrea (B, Paid directly to institution/employer), SI-BONE (D, Paid directly to institution/employer); Grants: Anschutz Foundation (F, Paid directly to institution/employer); Fellowship Support: OREF (D, Paid directly to institution/employer).

Burgos-Flores, Jesus: Nothing to Disclose

Burgstaller, Jakob M.: Nothing to Disclose

Burian, Nora: Nothing to Disclose

Burkus, J. Kenneth: Royalties: Medtronic (F); Consulting: Biomet (None).

Burneikiene, Sigita: Nothing to Disclose

Burns, Anthony: Nothing to Disclose

Burton, Douglas C.: Royalties: DePuy Spine (C); Consulting: DePuy Spine (B); Board of Directors: Kansas University Physicians (None), International Spine Study Group (None); Research Support - Investigator Salary: DePuy Spine (B).

Buschiazzo, Valeria L.: Nothing to Disclose

Buser, Zorica: Consulting: Xenco Medical (B).

Buster, Ward P.: Nothing to Disclose

Butler, Elissa: Nothing to Disclose

Buvanandren, Asokumar: Grants: NIH (F, Paid directly to institution/employer), Pfizer (F, Paid directly to institution/employer).

Buvanendran, Asokumar: Nothing to Disclose

Buza, John: Nothing to Disclose

Bydon, Ali: Research Support - Staff and/or Materials: Johnson & Johnson (D, Paid directly to institution/employer).

Bydon, Mohamad: Nothing to Disclose

Byun, Hae Mi: Nothing to Disclose

Cable, Alexandria: Nothing to Disclose

Cadel, Eileen: Nothing to Disclose

Cadotte, David W.: Nothing to Disclose

Caffes, Nicholas: Nothing to Disclose

Cahill, Kevin S.: Consulting: Globus Medical (C), Spine Wave (B); Speaking and/or Teaching Arrangements: DePuy Spine (B), Spine Wave (B), Globus Medical (D).

Cahill, Patrick J.: Consulting: DePuy Synthes Spine (B), Ellipse Technologies (B).

Cai, Yiwei: Nothing to Disclose

Cain, Christopher M.: Royalties: DePuy Synthes (H); Consulting: DePuy Synthes (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: AOSpine (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Medtronic Sofamor Danek (B, Paid directly to institution/employer), Medicrea (B, Paid directly to institution/employer), Aesculap (D, Paid directly to institution/employer), VertiFlex (B, Paid directly to institution/employer), InSite (B, Paid directly to institution/employer), DePuy Synthes (C, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer), InSite - SI-BONE (C, Paid directly to institution/employer), Orthofix (C, Paid directly to institution/employer), Integra LifeSciences (B, Paid directly to institution/employer).

Caine, Heather: Nothing to Disclose

Caldwell, Jon-Michael: Nothing to Disclose

Callaghan, John: Royalties: DePuy (G); Consulting: DePuy (Royalties disclosed); Board of Directors: Knee Society (Board member), OREF (Chairman), International Hip Society (President), Journal of Arthroplasty (Assistant Editor-in-Chief).

Callahan, Matt: Nothing to Disclose

Callanan, Tucker C.: Nothing to Disclose

Cameron, Brian M.: Nothing to Disclose

Camire, Lyn: Nothing to Disclose

Camisa, William: Nothing to Disclose

Cammisa, Frank P.: Device or Biologic Distributorship (Physician-Owned Distributorship): Alphatec (B); Royalties: NuVasive (C); Stock Ownership: Alphatec Spine (88021 Shares), NuVasive (14580 Shares), Paradigm Spine (<1%), Small Bone Innovations (<1%), Spinal Kinetics (20000 Shares); Private Investments: Ivy Healthcare I and II (B), Woven Orthopedic Technologies (F), Royer Biomedical (E), Promethean Surgical Devices (D), Liventa Bioscience (E), BioAssets Development Corporation (Amount not disclosed), Bonovo Orthopedic (C), HealthpointCapital Partners (C), NuVasive (Common

Shares), BI Members (C), MMF Systems (None), Viscogliosi Brothers Venture Partners III (C); Consulting: Alphatec Spine (B), Vertical Spine (Stock options), NuVasive (Common Shares), Paradigm Spine (Stock Ownership disclosed), DePuy Synthes (A), Spinal Partners III (Consulting disclosed), Spinal Kinetics (B); Scientific Advisory Board: Alphatec (Common Stock), Spine Partners III (Medical Advisory Board), Spinal Kinetics (Stock Options, Common Stock), Paradigm Spine (Stock Options), HealthpointCapital Partners (Private Investments disclosed), Ivy Healthcare Partners (Private Investments disclosed); Research Support - Staff and/or Materials: Spinal Kinetics (C, Paid directly to institution/employer), DePuy (E, Paid directly to institution/employer), Bacterin (F, Paid directly to institution/employer), Integra (F, Paid directly to institution/employer), NuTech (F, Paid directly to institution/employer), Vertical Spine (E, Paid directly to institution/employer); Fellowship Support: NuVasive (E, Paid directly to institution/employer).

Campbell, Robert M.: Nothing to Disclose

Campello, Marco A.: Nothing to Disclose

Campos Deziano, Mauricio A.: Nothing to Disclose

Canavèse, Federico: Nothing to Disclose

Cancienne, Jourdan M.: Nothing to Disclose

Canestra, Andrew F.: Royalties: RTI (A); Private Investments: TrueMotion Spine (<1%); Consulting: NuVasive (E), Amendia (F), DePuy (B), SpineGuard (B), Atlas (B), Mazor Robotics (C); Speaking and/or Teaching Arrangements: NuVasive (A); Research Support - Staff and/or Materials: Mazor (B).

Cantu, Robert C.: Nothing to Disclose

Carandang, Gerard: Nothing to Disclose

Carballido-Gamio, Julio: Nothing to Disclose

Carelli, Luis E.: Nothing to Disclose

Carette, Simon: Nothing to Disclose

Caridi, John M.: Consulting: Zimmer-Biomet Spine (B); Speaking and/or Teaching Arrangements: Zimmer-Biomet Spine (C).

Carl, Allen L.: Stock Ownership: Intrinsic Therapeutics (<1%); Consulting: K Spine (B); Scientific Advisory Board: Replication Medical (Stock Options); Research Support - Staff and/or Materials: DePuy (D, Paid directly to institution/employer).

Carlson, Angela: Stock Ownership: Renovis Surgical Technologies (<1%); Private Investments: Alliance Surgical Distributors (4.4%); Consulting: Inland Surgical Products (A).

Carlson, Brandon B.: Nothing to Disclose

Carlson, Robin: Nothing to Disclose

Carmody, Cameron N.: Royalties: Globus (E); Private Investments: 4-Web Medical (2%); Consulting: 4-Web Medical (B), Simplify Medical (C); Speaking and/or Teaching Arrangements: Simplify Medical (Consulting disclosed); Relationships Outside the One-Year Requirement: DePuy (Royalties, Dissolved 01/2010, A).

Carmouche, Jonathan J.: Nothing to Disclose

Carneiro Pontelli, Luis Otavio: Nothing to Disclose

Carreon, Leah Y.: Trips/Travel: University of Louisville (B), Center for Spine Surgery and Research, Region of Southern Denmark (B); Scientific Advisory Board: University of Louisville Institutional Review Board (University of Louisville Institutional Review Board), Scoliosis Research Society Research Committee (Scoliosis Research Society Research Committee), The Spine Journal (Editorial Advisory Board), Spine (Editorial Advisory Board); Other Office: Norton Healthcare (Salary), Center for Spine Surgery and Research, Lillebaelt Hospital, University of Southern Denmark (Professor); Research Support - Staff and/or Materials: Norton Healthcare (B, Paid directly to institution/employer), Orthopedic Research and Educational Fund (B, Paid directly to institution/employer), Scoliosis

Research Society (B, Paid directly to institution/employer), Pfizer (C, Paid directly to institution/employer), Integra (C, Paid directly to institution/employer).

Carrino, John A.: Consulting: Pfizer (B), BioClinica (B); Scientific Advisory Board: General Electric (Travel expenses), Halyard Health (Travel expenses).

Carroll, Linda: Speaking and/or Teaching Arrangements: Work Disability Prevention CIHR Strategic Training Program (A); Trips/Travel: University of Ontario Institute of Technology, Ontario Protocol for Traffic Injury Management (OPTIM (B); Research Support - Investigator Salary: Alberta Innovates - Health Solutions (C, Paid directly to institution/employer); Grants: MS Society (D, Paid directly to institution/employer).

Carter, Andrew J.: Stock Ownership: Tepha (<1%); Private Investments: TheraCell (6.9%), Spine Wave (<1%), Smith & Nephew (<1%), 206 Ortho (<1%), Akeso Biomedical (<1%); Consulting: AgNovos Biomedical (B, Scientific Advisory Board), Zimmer Knee Creations (B), Intrinsic Therapeutics (C), University of New South Wales (D), Akeso Biomedical (B); Other: TheraCell (Salary).

Casabarro, Benjamin: Nothing to Disclose

Casazza, Brian A.: Other: CareCore National (Salary, Musculoskeletal Medical Director).

Cason, Garrick: Nothing to Disclose

Cason, Garrick W.: Nothing to Disclose

Casper, David: Nothing to Disclose

Cassidy, R. Carter: Nothing to Disclose

Cassilly, Ryan T.: Nothing to Disclose

Castro, Carlos A.: Nothing to Disclose

Catchpole, Ken: Device or Biologic Distributorship (Physician-Owned Distributorship): Medtronic (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Quality Improvement Niagara (B); Trips/Travel: The Philosophical Breakfast Club (Travel expenses); Grants: Medtronic (B).

Catena, Nunzio: Nothing to Disclose

Cates, Justin: Nothing to Disclose

Caucci, Gabrielle: Nothing to Disclose

Cavanaugh, Daniel L.: Nothing to Disclose

Cavanaugh, David A.: Nothing to Disclose

Cavanaugh, John: Nothing to Disclose

Cazzulino, Alejandro: Nothing to Disclose

Cecchini, André: Nothing to Disclose

Cenic, Aleksa: Nothing to Disclose

Cerier, Emily: Nothing to Disclose

Cervellati, Stefano: Nothing to Disclose

Cevik, Orhun Mete: Nothing to Disclose

Cha, Thomas: Nothing to Disclose

Cha, Thomas D.: Consulting: Bio2 (B), GE Healthcare (B), NuVasive (B), K2M (B); Research Support - Investigator Salary: Gordon and Betty Moore Foundation (B, Paid directly to institution/employer); Grants: North American Spine Society (D, Paid directly to institution/employer); Fellowship Support: AOSpine (F, Paid directly to institution/employer), K2M (F, Paid directly to institution/employer), OREF (F, Paid directly to institution/employer).

Chadha, Manish: Nothing to Disclose

Chae, John: Stock Ownership: SPR Therapeutics (1.2%); Consulting: SPR Therapeutics (D, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: SPR Therapeutics (Consulting, Amount not disclosed).

Chahine, Nadeen: Speaking and/or Teaching Arrangements: University of Eastern Finland (B); Trips/Travel: Cell and Molecular Bioengineering Conference (A), International Workshop on

Multiscale Mechanobiology (B); Grants: National Science Foundation (D, Paid directly to institution/employer), American Orthopaedic Society for Sports Medicine (C, Paid directly to institution/employer), New York State Department of Health (E, Paid directly to institution/employer).

Chakravarthi, Srikant: Nothing to Disclose

Challier, Vincent: Nothing to Disclose

Chan, Tin Yan: Nothing to Disclose

Chandler, David R.: Stock Ownership: Andrews Institute Ambulatory Surgery Center (<1%); Private Investments: Andrews Institute Ambulatory Surgery Center (<1%); Board of Directors: Andrews Institute Ambulatory Surgery Center (None), Florida Orthopaedic Society (None).

Chang, Donggune: Nothing to Disclose

Chang, Dong-Gune: Nothing to Disclose

Chang, Ho-Guen: Nothing to Disclose

Chang, Jason: Nothing to Disclose

Chang, Jodie: Nothing to Disclose

Chang, Michael S.: Consulting: Stryker (C), SeaSpine (B), L&D (B), DePuy (B); Speaking and/or Teaching Arrangements: Stryker (B), Medtronic (B).

Chang, Victor: Consulting: Globus Medical (C), DePuy Synthes (B); Research Support - Staff and/or Materials: Medtronic (D, Paid directly to institution/employer).

Chang, Yu-Hui: Nothing to Disclose

Changpradap, Piti: Nothing to Disclose

Chapman, Jens R.: Stock Ownership: Renovis (<1%); Speaking and/or Teaching Arrangements: AOSpine North America (B); Trips/Travel: AO North America (Travel expenses); Board of Directors: AOSpine North America (B, Treasurer); Scientific Advisory Board: Editor in Chief Global Spine Journal (A); Research Support - Staff and/or Materials: Swedish Neuroscience Institute (A, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Spine Journal (Trips/Travel, Travel expenses), Journals of Spine (Trips/Travel, Travel expenses), JSDT (Trips/Travel, Travel expenses), Journal of Bone and Joint Surgery (Trips/Travel, Travel expenses) JBJS (Trips/Travel, Travel expenses), Evidence Based Spine Care Journal (Trips/Travel, Travel expenses), Global Spine Journal (Trips/Travel, Travel expenses).

Chapman, Todd M.: Trips/Travel: Amendia (A); Fellowship Support: AOSpine (A).

Chaput, Christopher D.: Royalties: Globus (A), Facet-Link (A); Consulting: Globus (B Facet-Link (B); Research Support - Staff and/or Materials: Medtronic (D, Paid directly to institution/employer), Globus (C, Paid directly to institution/employer), NuVasive (B, Paid directly to institution/employer).

Charitable, John: Nothing to Disclose

Chataigner, Herve L.: Royalties: LDR (D), Euros (D), Medicea (D); Speaking and/or Teaching Arrangements: LDR (Travel expenses); Trips/Travel: LDR (Travel expenses), Euros (Travel expenses).

Chatterjee, Sandip: Nothing to Disclose

Chatzisotiriou, Athanasios: Relationships Outside the One-Year Requirement: SpineArt (Research Support: Investigator Salary, Dissolved 7/2013, B).

Chaudhary, Saad B.: Speaking and/or Teaching Arrangements: Medtronic (B), DePuy/Synthes (B); Scientific Advisory Board: U & I Corporation (A).

Chee, Ana: Grants: Yuhan Corp (F, Paid directly to institution/employer), SpinalCyte (F, Paid directly to institution/employer), North American Spine Society (D, Paid directly to institution/employer), AOSpine (F, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: SpinalCyte (Grant, Dissolved 12/2012, E).

Chen, Chao: Nothing to Disclose

Chen, Christopher: Nothing to Disclose

Chen, Di: Grants: Amgen (E, Paid directly to institution/employer).

Chen, Foster: Nothing to Disclose

Chen, Guang-Dong: Nothing to Disclose

Chen, Jun: Nothing to Disclose

Chen, Ling: Nothing to Disclose

Chen, Peggy: Nothing to Disclose

Chen, Qingshan: Nothing to Disclose

Chen, Robert: Consulting: Merz (B), Allergan (B).

Chen, Shiu-Jau: Nothing to Disclose

Chen, Thomas C.: Stock Ownership: NeOnc Technologies (30%); Private Investments: Pharmaco-Kinesis (10%); Consulting: ERC (Chief Medical Officer); Speaking and/or Teaching Arrangements: AHMC (A); Trips/Travel: NeOnc (B); Board of Directors: Pharmaco-Kinesis (None); Scientific Advisory Board: ERC (None); Other Office: Globus (B); Grants: Novocure (D).

Chen, Xi: Nothing to Disclose

Chen, Xiao-Long: Nothing to Disclose

Chen, Yenjen: Nothing to Disclose

Chen, Yixin: Nothing to Disclose

Cheney, Robert A.: Nothing to Disclose

Cheng, Boyle C.: Stock Ownership: Medtronic (202 Shares); Private Investments: Ortho Kinematics (10000 Shares); Consulting: Aesculap (B); Speaking and/or Teaching Arrangements: Aesculap (B); Scientific Advisory Board: Aesculap Spine (B); Grants: K2M (D, Paid directly to institution/employer), SI-BONE (D, Paid directly to institution/employer), Stryker (E, Paid directly to institution/employer), Medtronic (F, Paid directly to institution/employer).

Cheng, Christina W.: Nothing to Disclose

Cheng, David S.: Nothing to Disclose

Cheng, Guangdong: Nothing to Disclose

Cheng, Ivan: Royalties: NuVasive (F); Private Investments: Cytonics (D), Spine Innovations (D); Consulting: Spine Wave (None); Speaking and/or Teaching Arrangements: Stryker Spine (B); Grants: Cervical Spine Research Society (C).

Cheng, Joseph S.: Board of Directors: North American Spine Society (Payor Policy Review Chair); Other Office: AANS/CNS (Council of State Neurosurgical Societies Recording Secretary).

Cheng, Leo W.: Nothing to Disclose

Cher, Daniel J.: Device or Biologic Distributorship (Physician-Owned Distributorship): SI-BONE (F); Stock Ownership: SI-BONE (<1); Other Office: SI-BONE (Salary, Vice President of Clinical).

Cherian, Jacob: Nothing to Disclose

Cherian, Jerry: Nothing to Disclose

Cherian, Thomas: Nothing to Disclose

Cheung, Jason P.: Nothing to Disclose

Cheung, Kenneth M.: Board of Directors: Scoliosis Research Society (Travel expenses); Research Support - Staff and/or Materials: Research Grants Council (F, Paid directly to institution/employer).

Cheung, Zoe: Nothing to Disclose

Chew, Sing Yian: Nothing to Disclose

Chhatre, Akhil: Nothing to Disclose

Chi, Deborah: Nothing to Disclose

Chi, Deborah: Nothing to Disclose

Chiang, Yung Hsiao: Nothing to Disclose

Chiba, Kazuhiro: Consulting: Seikagaku (G, Paid directly to institution/employer), General Insurance Rating Organization of Japan (E), Health Insurance Claims Review & Reimbursement Services (F);

Speaking and/or Teaching Arrangements: Astellas Pharmaceutical (F), Hisamitsu Pharmaceutical (F), Showa Yakuhin Kako (F), Pfizer Japan (F), Kaken Pharmaceutical (F); Trips/Travel: Seikagaku (F); Board of Directors: Japanese Society for Spine Surgery and related Research (Council Member), Cervical Spine Research Society Asia Pacific section (Board of Directors), Japanese Orthopedic Association (Council Member); Grants: Ministry of Health Labor and Welfare of Japan (B, Paid directly to institution/employer).

Chien, Li-Nien: Nothing to Disclose

Chieng, Lee Onn: Nothing to Disclose

Chikuda, Hirotaka: Nothing to Disclose

Chin, Kingsley R.: Device or Biologic Distributorship (Physician-Owned Distributorship): SpineFrontier Device Company (A); Stock Ownership: SpineFrontier (80%); Trips/Travel: SpineFrontier (B); Board of Directors: SpineFrontier (Stock Ownership disclosed); Other Office: Chief Executive Officer (Stock Options).

Chioffe, Michael: Nothing to Disclose

Chiu, John C.: Nothing to Disclose

Chlebek, Carolyn: Nothing to Disclose

Cho, Charles H.: Board of Directors: North American Spine Society (Evidence Compilation and Analysis Chair); Other Office: American Society of Neuroradiology (Finance Management Committee Co-chair).

Cho, Samuel K.: Consulting: Zimmer Biomet (B), DePuy Synthes (B), Medtronic (B), Stryker (B); Research Support (Staff and/or Materials): Zimmer Biomet (B, Paid directly to institution/employer); Grants: OREF (D, Paid directly to institution/employer).

Cho, Woojin: Nothing to Disclose

Choi, Byung Wan: Nothing to Disclose

Choi, Chang: Nothing to Disclose

Choi, Daniel E.: Nothing to Disclose

Choi, David: Other Office: Global Spine Tumour Study Group (E, Paid directly to institution/employer).

Choi, Ho Yong: Nothing to Disclose

Choi, Jun-Ik: Nothing to Disclose

Choi, Sung-Woo: Nothing to Disclose

Choi, Won suh: Nothing to Disclose

Cholewicki, Jacek: Nothing to Disclose

Choma, Theodore J.: Stock Ownership: Gentis (<1%); Speaking and/or Teaching Arrangements: AOSpine North America (B); Board of Directors: AOSpine North America (B); Scientific Advisory Board: Gentis (None); Grants: Stryker Spine (None, Paid directly to institution/employer).

Chotai, Silky: Nothing to Disclose

Chotikul, Liana: Nothing to Disclose

Chou, Dean: Consulting: Orthofix (B), Medtronic (B), Globus (B).

Chou, Po-Hsin: Nothing to Disclose

Christensen, Steen B.: Nothing to Disclose

Christie, Sean D.: Consulting: Medtronic Canada (B); Speaking and/or Teaching Arrangements: Medtronic (C, Paid directly to institution/employer); Board of Directors: Canadian Spine Society (None); Scientific Advisory Board: Canadian Spine Society (None), North American Spine Society (None); Research Support - Staff and/or Materials: Medtronic (D, Paid directly to institution/employer); Grants: Rick Hansen Institute (E, Paid directly to institution/employer).

Christou, Chris: Nothing to Disclose

Chugh, Arunit J.: Nothing to Disclose

Chun, Danielle S.: Nothing to Disclose

Chung, Andrew S.: Nothing to Disclose
Chung, Chun Kee: Nothing to Disclose
Chung, Jae-Yoon: Nothing to Disclose
Chung, Nam-Su: Nothing to Disclose
Chung, Young-Sun: Nothing to Disclose
Chutkan, Norman B.: Royalties: Globus Medical (E); Speaking and/or Teaching Arrangements: AO North America (Travel expenses); Board of Directors: AOSpine North America (Travel expenses), North American Spine Society (At Large Member).
Ciccarelli, Lauren: Nothing to Disclose
Cil, Hemra: Nothing to Disclose
Cizik, Amy M.: Nothing to Disclose
Clarke, Michelle J.: Nothing to Disclose
Claydon, Matthew H.: Nothing to Disclose
Cleland, Josh: Nothing to Disclose
Clément, Jean-Luc: Royalties: Medicrea international (E); Consulting: Medicrea International (C); Trips/Travel: Medicrea International (B).
Clin, Julien: Other Office: Spinologics (Salary); Grants: K2M (F, Paid directly to institution/employer), DePuy Synthes (D, Paid directly to institution/employer).
Clough, Ashley: Nothing to Disclose
Clough, Bret: Nothing to Disclose
Coburn, Erin E.: Nothing to Disclose
Cochran, Mike: Nothing to Disclose
Cody, John P.: Nothing to Disclose
Coe, Jeffrey D.: Stock Ownership: Phygen (<1%), Implantium (3%), Alphatec (<1%); Consulting: NuVasive (None), SI-BONE (None), Benvenue Medical (C); Speaking and/or Teaching Arrangements: NuVasive (C), Providence Medical (B); Board of Directors: California Orthopaedic Association (None); Research Support - Staff and/or Materials: Medtronic Sofamor Danek (B), SI-BONE (B).
Cohen, Bernard A.: Stock Ownership: NuVasive (<1%), Medtronic (<1%), General Electric (<1%), Synthes (<1%), Zimmer (<1%), Johnson & Johnson (<1%), Hanson Medical (<1%); Consulting: NuVasive (B); Scientific Advisory Board: Commission on Accreditation of Allied Health Education Programs (None).
Cohen, David B.: Speaking and/or Teaching Arrangements: NASS (A).
Cohen, Jason: Nothing to Disclose
Cohen, Jeffrey: Nothing to Disclose
Cohen, Jeremiah R.: Nothing to Disclose
Cohen, Ryan: Nothing to Disclose
Cohen-Adad, Julien: Nothing to Disclose
Cohn, Claudia: Speaking and/or Teaching Arrangements: Fresenius Kabi (B); Trips/Travel: Fresenius Kabi (B); Research Support - Investigator Salary: Fresenius Kabi (A); Research Support - Staff and/or Materials: Octapharma (A, Paid directly to institution/employer).
Colbrunn, Robb: Royalties: simVITRO - Cleveland Clinic (C); Research Support - Staff and/or Materials: Orthosensor (D, Paid directly to institution/employer).
Colloca, Christopher J.: Nothing to Disclose
Connolly, Ian D.: Nothing to Disclose
Constantin, Alexandra: Other Office: Dexcom (Salary).
Contag, Alec: Nothing to Disclose
Conti Mica, Michael R.: Nothing to Disclose
Contreras, Ana: Nothing to Disclose
Cook, Brandon W.: Nothing to Disclose

Cook, Chad: Nothing to Disclose

Cook, Christopher: Nothing to Disclose

Cook, Judson H.: Nothing to Disclose

Cook, Ralph W.: Nothing to Disclose

Cook, Stephen D.: Royalties: Precision Spine (G); Stock Ownership: Precision Spine (<1%); Consulting: Precision Spine (E); Board of Directors: Precision Spine (C); Research Support - Staff and/or Materials: Precision Spine (F, Paid directly to institution/employer); Grants: Marshall Heritage Foundation (G).

Copay, Anne G.: Nothing to Disclose

Corbin, Terry P.: Consulting: Amedica Corporation (F), Acumen Healthcare Solutions (B), SIGNUS Medical (B); Trips/Travel: Amedica (C).

Cordover, Andrew: Nothing to Disclose

Coric, Domagoj: Royalties: Spine Wave (F); Stock Ownership: Spine Wave (<1%), DiscGenics (<1%), Premia Spine (<1%); Consulting: Medtronic (C), Globus Medical (F), United Healthcare (B), Spine Wave (C), Medtronic (C); Speaking and/or Teaching Arrangements: Globus Medical (C), Spine Wave (C), Medtronic (B); Scientific Advisory Board: United Healthcare (B).

Coronado, Rogelio: Nothing to Disclose

Cortes, Daniel: Nothing to Disclose

Coseo, Mark: Nothing to Disclose

Cossigny, Davina: Nothing to Disclose

Costa, Francesco: Nothing to Disclose

Costales, Timothy: Nothing to Disclose

Costigan, Michael: Nothing to Disclose

Cote, Pierre: Speaking and/or Teaching Arrangements: European Spine Society (B); Trips/Travel: European Spine Society (B, Paid directly to institution/employer); Scientific Advisory Board: European Spine Society Task Force on Research (None); Grants: Ontario Government - Ministry of Finance (F, Paid directly to institution/employer); Other: Rand Corporation (B, Paid directly to institution/employer).

Cottrell, Jessica: Nothing to Disclose

Court, Charles: Nothing to Disclose

Courtemanche, Matthew: Nothing to Disclose

Coutinho, Etevaldo: Nothing to Disclose

Covington, Edward: Nothing to Disclose

Cowan, R. S.: Consulting: LDR (B); Research Support - Investigator Salary: LDR (B); Relationships Outside the One-Year Requirement: LDR (Speaking and/or Teaching Arrangement, Dissolved 01/2010, A).

Cowgill, Ian: Nothing to Disclose

Cragg, Jacquelyn: Nothing to Disclose

Craig, Chad M.: Nothing to Disclose

Craig, Niall J.: Consulting: St Teresa Medical (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Q Spine (Travel expenses); Trips/Travel: Safe Orthopaedics (A); Scientific Advisory Board: Fannin (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Cerapedics (B, Paid directly to institution/employer).

Crandall, Dennis G.: Royalties: Medtronic (E); Consulting: Medtronic (B), Ellipse Technology (None), Spine Wave (B), Zyga (None); Board of Directors: Dignity Oasis Hospital (None); Scientific Advisory Board: Ellipse Technology (None).

Crawford, Charles H.: Consulting: Medtronic (C), Alphatec (C); Speaking and/or Teaching Arrangements: DePuy-Synthes (B), Titan Spine (A); Trips/Travel: North American Spine Society (A), SRS (A); Other

Office: Scoliosis Research Society (Committee Member), North American Spine Society (Committee Member).

Crawford, Neil: Stock Ownership: Excelsius Surgical (15%), Globus Medical (5000 Shares); Other Office: Globus Medical (Salary).

Cripton, Peter A.: Consulting: MEA Forensic Engineers and Scientists (B), Synaptic Analysis Consulting Group (D); Board of Directors: Synaptic Analysis Consulting Group (Chief Operating Officer).

Cristante, Alexandre F.: Nothing to Disclose

Crossley, Leslie: Nothing to Disclose

Crowder, Terrence T.: Consulting: Integra (B); Other: Vertera (Stock Options).

Crudden, Joseph J.: Stock Ownership: DiFusion Technologies (7%); Board of Directors: DiFusion Technologies (Stock Options); Other Office: DiFusion Technologies (E).

Cruz, Dana: Nothing to Disclose

Cuellar, Jason M.: Stock Ownership: Cytonics (2%); Scientific Advisory Board: Cytonics (Stock Options); Other: Nevro (Amount not disclosed).

Cui, Shari: Nothing to Disclose

Culler, Steven D.: Nothing to Disclose

Cunningham, Bryan W.: Stock Ownership: Globus Medical Inc. (<1%); Trips/Travel: Globus Medical (B); Board of Directors: Globus Medical (None); Scientific Advisory Board: Globus Medical (None); Other Office: Director of Musculoskeletal Research (Salary).

Cunningham, Matthew E.: Speaking and/or Teaching Arrangements: DePuy/J&J (Amount not disclosed, Paid directly to institution/employer); Research Support - Staff and/or Materials: K2M (A, Paid directly to institution/employer), RTI (A, Paid directly to institution/employer).

Curcin, Aleksandar: Board of Directors: Western Oregon Advanced Health (Amount not disclosed).

Curran, Patrick: Nothing to Disclose

Currier, Bradford L.: Royalties: DePuy Spine (E, Paid directly to institution/employer), Zimmer Biomet (A, Paid directly to institution/employer), Stryker Spine (B, Paid directly to institution/employer); Private Investments: Tenex (<1%), Spinology (<1%); Board of Directors: LSRS (Past President, Board of Directors), Spine Study Group (Board of Directors); Fellowship Support: AOSpine North America (E, Paid directly to institution/employer).

Cutler, Holt: Nothing to Disclose

da Silva, Pedro: Nothing to Disclose

Daffner, Scott D.: Stock Ownership: Pfizer (<1%), Amgen (<1%); Other Office: CSRS (Research Committee), North American Spine Society (Section on Biologics & Basic Research, Membership Committee); Research Support - Staff and/or Materials: Pfizer (A, Paid directly to institution/employer), Bioventus (A, Paid directly to institution/employer), Spinal Kinetics (A, Paid directly to institution/employer); Grants: CSRS (F, Paid directly to institution/employer), AO Foundation (F, Paid directly to institution/employer); Fellowship Support: AOSpine (E, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Medtronic (Fellowship Support, Dissolved 08/2011, D, Paid directly to institution), Medtronic (Fellowship Support, Dissolved 08/2011, D, Section on Biologics and Basic Science).

Dagenais, Simon: Royalties: Elsevier (A); Stock Ownership: Pacira Pharmaceuticals (<1%); Private Investments: Palladian Health (<1%); Consulting: University of South Florida (D), Palladian Health (B); Scientific Advisory Board: Société Franco-Européenne de Chiropraxie (SOFEC) (None), Palladian Health (Consulting disclosed); Other Office: North American Spine Society (Value Committee, Low Back Pain Guidelines Committee).

Dahl, Benny: Speaking and/or Teaching Arrangements: Medtronic (B, Paid directly to institution/employer), Globus Medical (B); Grants: Globus Medical (D, Paid directly to

institution/employer), Medtronic (B, Paid directly to institution/employer), K2M (D, Paid directly to institution/employer).

Dailey, Andrew T.: Royalties: Biomet (C); Consulting: Biomet (D); Speaking and/or Teaching Arrangements: AO North America (B); Relationships Outside the One-Year Requirement: Biomet (Teaching, Dissolved 2007-2008, B).

Cresanti-Daknis, Charles B.: Speaking and/or Teaching Arrangements: Ellman Scientific (B).

Daly, Eden: Nothing to Disclose

Dam Hieu, Phong: Nothing to Disclose

Dang, Alan: Consulting: DePuy Synthes Biomaterials (F, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (B); Other Office: Dang Orthopaedics (Co-founder/Owner); Research Support - Staff and/or Materials: CGBio (A, Paid directly to institution/employer).

Daniel, Jefferson W.: Nothing to Disclose

Daniels, Alan: Consulting: Stryker (C), Globus (B), DePuy (B); Trips/Travel: Medtronic (A), Globus (B); Research Support - Staff and/or Materials: Orthofix (B, Paid directly to institution/employer); Fellowship Support: Orthofix (D, Paid directly to institution/employer).

Daniels, Clinton J.: Nothing to Disclose

Danisa, Olumide A.: Royalties: Globus Medical (F); Trips/Travel: American Board of Orthopaedic Surgery (B), Musculoskeletal Tissue Foundation (B); Grants: Musculoskeletal Tissue Foundation (B, Board of Trustees, Paid directly to institution/employer).

Darden, Bruce V.: Royalties: Stryker (D, Paid directly to institution/employer); Stock Ownership: BioMedFlex (100 Shares); Consulting: Stryker (B), Synthes (B); Board of Directors: Cervical Spine Research Society (None), Lumbar Spine Research Society (None); Scientific Advisory Board: Stryker Biologic (None); Fellowship Support: AO (E, Paid directly to institution/employer).

Darnley, James: Nothing to Disclose

Datta, Jason C.: Device or Biologic Distributorship (Physician-Owned Distributorship): Wyco (E); Private Investments: Cerapedics (1 Share); Consulting: Spine Wave (B); Grants: Medtronic (D, Paid directly to institution/employer).

Datta, Karan: Nothing to Disclose

Daubs, Michael D.: Royalties: Synthes Spine (F); Consulting: DePuy Synthes Spine (B); Speaking and/or Teaching Arrangements: AOSpine North America (B); Board of Directors: AOSpine North America (B); Fellowship Support: AOSpine North America (D, Paid directly to institution/employer).

David, Kenny S.: Nothing to Disclose

Davis, Ashley: Nothing to Disclose

Davis, Brandon J.: Nothing to Disclose

Davis, Charles: Speaking and/or Teaching Arrangements: K2m (C); Other Office: K2M (Medical Director Biologics).

Davis, Reginald J.: Royalties: Zimmer Spine (B, Paid directly to institution/employer); Consulting: Zimmer Spine (B, Paid directly to institution/employer), Paradigm Spine (B, Paid directly to institution/employer), LDR (B); Speaking and/or Teaching Arrangements: Biomet (B, Paid directly to institution/employer); Trips/Travel: Zyga (B, Paid directly to institution/employer).

Davis, Rick A.: Royalties: Zimmer (B); Consulting: Zimmer (B), Globus (None).

Day, Louis M.: Nothing to Disclose

Day, M. Jerry: Speaking and/or Teaching Arrangements: K2M (B); Trips/Travel: Intrinsic Therapeutics (B).

de Graeff, Jan Jaap: Nothing to Disclose

de Guzman, Roche: Nothing to Disclose

de Kleuver, Marinus: Nothing to Disclose

De la Garza-Ramos, Rafael: Nothing to Disclose

De Leener, Benjamin: Nothing to Disclose

de Rivero Vaccari, Juan Pablo: Research Support - Investigator Salary: American Heart Association (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: American Heart Association (E, Paid directly to institution/employer); Grants: American Heart Association (E, Paid directly to institution/employer).

Deardorff, William W.: Nothing to Disclose

Deckey, Jeffrey E.: Royalties: NuVasive (B); Stock Ownership: Paradigm Spine (<1%); Consulting: NuVasive (A); Speaking and/or Teaching Arrangements: NuVasive (A); Fellowship Support: NuVasive (A).

deDianous, David: Nothing to Disclose

Defino, Helton Luiz A.: Nothing to Disclose

DeFrate, Louis: Nothing to Disclose

Dehipawala, Sumudu: Nothing to Disclose

Deily, Sylvia: Nothing to Disclose

Deinlein, Donald A.: Trips/Travel: Medtronic (Travel expenses); Relationships Outside the One-Year Requirement: K2M (Trips/Travel, Dissolved 2013).

Dekutoski, Mark B.: Other Office: The CORE Institute (Quality Committee and Research Committee); Research Support - Staff and/or Materials: SpineNet (A, Paid directly to institution/employer); Grants: Mayo Foundation Office of Intellectual Properties (D, Paid directly to institution/employer).

DeLaney, Thomas F.: Royalties: Wolters Kluwer/Lippincott Williams and Wilkins (A), UpToDate (C), Oakstone Medical Publishing (A); Consulting: Amgen (B), University of Michigan (B), Best Doctors (A), Gerson Lehman Group (A); Scientific Advisory Board: Chordoma Foundation (Scientific Advisory Board), Amgen (Consulting disclosed).

Delecrin, Joel: Royalties: LDR medical (B); Trips/Travel: LDR Medical (Travel expenses).

DeSole, Edward: Nothing to Disclose

Dema, Eugenio: Nothing to Disclose

Demaio, David: Nothing to Disclose

DeMarco, Dylan: Nothing to Disclose

DeMattia, Joseph A.: Nothing to Disclose

Dembek, Anna: Nothing to Disclose

Demers Lavelle, Elizabeth: Nothing to Disclose

Demir, Mustafa: Nothing to Disclose

Demir, Mustafa Kemal: Nothing to Disclose

Demir-Deviren, Sibel: Consulting: ISTO Technologies Independent Safety Committee (B, Paid directly to institution/employer); Grants: Pfizer (A, Paid directly to institution/employer).

Deng, Zhong-Liang: Nothing to Disclose

DenHaese, Ryan P.: Royalties: Biomet Lanx (F); Consulting: Biomet Lanx (D); Speaking and/or Teaching Arrangements: Biomet Lanx (G); Trips/Travel: Biomet Lanx (D); Other Office: Biomet Lanx (Director of Medical Education).

Denham, Zachary: Nothing to Disclose

Dennis, Steven C.: Nothing to Disclose

Deol, Gurvinder S.: Royalties: NuVasive (F), Globus (F); Private Investments: Vital5 (<1%), Spinicity (<1%), Saferay (<1%); Consulting: NuVasive (E); Speaking and/or Teaching Arrangements: AOSpine (Amount not disclosed).

DePalma, Michael J.: Consulting: VertiFlex (Amount not disclosed, Paid directly to institution/employer); Trips/Travel: Medtronic (Travel expenses); Board of Directors: International Spine Intervention Society (Travel expenses, Paid directly to institution/employer), Virginia Spine Research Institute (President; Director of Research, Paid directly to institution/employer); Scientific Advisory Board:

Medtronic (Amount not disclosed), Halyard (Amount not disclosed, Paid directly to institution/employer); Research Support - Investigator Salary: Relivant (B, Paid directly to institution/employer), SI-BONE (B, Paid directly to institution/employer), Mesoblast (B, Paid directly to institution/employer), VertiFlex (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Relivant (B, Paid directly to institution/employer), Mesoblast (B, Paid directly to institution/employer), SI-BONE (B, Paid directly to institution/employer), VertiFlex (B, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: AOI Medical (Consulting, Dissolved 03/2010, A), Stryker Interventional Spine (Consulting, Dissolved 03/2010, B), St. Jude Medical (Consulting, Dissolved 03/2010), Kyphon/Medtronic (Consulting, Dissolved 01/2008, B), Stryker Biotech (Grant, Dissolved 06/2011, A), ATRM (Grant, Dissolved 06/2011, A).

DePasse, John M.: Other: Stryker (None).

Dere, Ümit Akin: Nothing to Disclose

Derman, Peter B.: Nothing to Disclose

Desai, Atman: Nothing to Disclose

Desai, Ronak: Nothing to Disclose

Descazeaux, Francoise: Nothing to Disclose

Dettori, Joseph R.: Nothing to Disclose

Devin, Clinton J.: Consulting: Exponent (Amount not disclosed); Speaking and/or Teaching

Arrangements: DePuy Spine (Amount not disclosed, Paid directly to institution/employer);

Trips/Travel: DePuy spine (B); Grants: Stryker spine (C, Paid directly to institution/employer).

DeVine, John G.: Consulting: Ulrich (C), Spinal Elements (B), Globus (B), FacetLINK (B); Speaking and/or Teaching Arrangements: AO North America - AOSpine (C); Trips/Travel: Synthes (B).

Deviren, Vedat: Royalties: NuVasive €; Consulting: NuVasive (D); Research Support - Staff and/or Materials: NuVasive (B, Paid directly to institution/employer); Fellowship Support: AOSpine (E, Paid directly to institution/employer), NuVasive (E, Paid directly to institution/employer), Globus (E, Paid directly to institution/employer); Other: Guidepoint (A).

Devito, Dennis: Royalties: Medirex Spine (E); Stock Ownership: Mazor Robotics (<1%); Consulting: Medirex Sine (B), Precision Spine (B), SeaSpine (B); Speaking and/or Teaching Arrangements: DePuy/Synthes (Travel expenses), Mazor Robotics (Travel expenses); Trips/Travel: Medirex (Travel expenses), Mazor (Travel expenses); Scientific Advisory Board: Spine Craft (None); Research Support - Investigator Salary: Mazor robotics (B); Research Support - Staff and/or Materials: K2M (A).

DeWald, Christopher J.: Stock Ownership: Medtronic (237 Shares), Alphatec (6800 Shares); Consulting: Stryker (B), Kisco (C); Speaking and/or Teaching Arrangements: NuVasive (B), K2M (B); Trips/Travel: NuVasive (A), Kisco (B); Research Support - Investigator Salary: K2M (A).

DeWitte-Orr, Stephanie: Nothing to Disclose

Dhakar, Gaurav R.: Nothing to Disclose

Dhatt, Sarvdeep S.: Nothing to Disclose

Di Capua, John: Nothing to Disclose

Diab, Mohammad: Stock Ownership: Stocks (Amount not disclosed); Consulting: Stryker (None).

Diaz de Atauri, Jaime: Nothing to Disclose

Diaz-Collado, Pablo: Nothing to Disclose

Diebo, Bassel G.: Nothing to Disclose

Dietze, Donald: Stock Ownership: Globus Medical (<1%, Paid directly to institution/employer);

Consulting: Medtronic (None, Paid directly to institution/employer), Precision Spine (None), Spinal Frontier (None).

Dimar, John R.: Royalties: Medtronic Sofamor Danek (H); Consulting: Medtronic (None); Speaking and/or Teaching Arrangements: DePuy (C); Board of Directors: SRS (Education Council Chair), FOSA

(Treasurer); Other: Spine (Reviewer), JBJS (Associate Editor), Spine Deformity (Reviewer), Global Spine (Reviewer).

Dimes, Jennie R.: Nothing to Disclose

DiPaola, Christian P.: Stock Ownership: Nascent Surgical (<1%); Private Investments: Lineage Medical (<1%); Consulting: Intrinsic Therapeutics (None); Speaking and/or Teaching Arrangements: DePuy Synthes Spine (B); Board of Directors: New England Spine Study Group (NESSG) (President), Spinal Injury Research and Education Foundation (President); Scientific Advisory Board: Nascent Surgical (C); Grants: Safe Passage Neuromonitoring (B).

DiRisio, Darryl J.: Stock Ownership: ReVivo Spine (33%); Board of Directors: ReVivo Medical (Stock Ownership).

Diulus, Carrie A.: Speaking and/or Teaching Arrangements: Reboot Holdings PTY LTD (B); Trips/Travel: Reboot Holding PTY LTD (B).

Divi, Srikanth: Nothing to Disclose

Djurasovic, Mladen: Consulting: Medtronic Sofamor Danek (D).

Doan, Ninh: Nothing to Disclose

Dobrescu, Octavian: Nothing to Disclose

Dodwad, Shah-Nawaz M.: Nothing to Disclose

Doerr, Todd M.: Nothing to Disclose

Doers, Thomas M.: Nothing to Disclose

Dohm, Michael P.: Nothing to Disclose

Dohring, Edward J.: Royalties: Stryker (E, Paid directly to institution/employer); Board of Directors: North American Spine Society (Education Council Director); Research Support - Staff and/or Materials: Medtronic (B, Paid directly to institution/employer).

Doita, Minoru: Nothing to Disclose

Donegan, Sean: Nothing to Disclose

Donelson, Ronald G.: Stock Ownership: Integrated Mechanical Care (4%); Consulting: The McKenzie Institute International (B).

Dormans, John P.: Royalties: Elsevier (B); Board of Directors: SRS (President); Scientific Advisory Board: Global HELP (Advisory Board), Shriner's International (Advisory Board), MHE Coalition (Advisory Board), Veritas Health (Advisory Board); Fellowship Support: Omega (E, Paid directly to institution/employer).

D'Oro, Anthony: Nothing to Disclose

Douard, Florence: Nothing to Disclose

Douceron, Estelle: Other Office: Medicrea (Salary, Paid directly to institution/employer).

Dougherty, Paul: Nothing to Disclose

Douleh, Diana: Nothing to Disclose

Drapeau, Susan J.: Stock Ownership: Medtronic (None).

Drazin, Doniel: Nothing to Disclose

Dreisinger, Thomas E.: Stock Ownership: Scientific Exercise (<1%); Consulting: Scientific Exercise (Executive Vice President of Outcomes Research); Speaking and/or Teaching Arrangements: Various (Amount not disclosed); Trips/Travel: Scientific Exercise (Travel expenses), North American Spine Society (Travel expenses); Board of Directors: McKenzie Institute International (C).

Drew, Brian M.: Nothing to Disclose

Driscoll, Mark: Stock Ownership: Spinologics Inc. (5%); Consulting: DePuy Synthes (Amount not disclosed, Paid directly to institution/employer), K2M (Amount not disclosed, Paid directly to institution/employer); Other Office: Spinologics (Salary); Grants: K2M (A, Paid directly to institution/employer), DePuy Synthes (A, Paid directly to institution/employer).

Driscoll, Sean J.: Nothing to Disclose

Dryer, Randall F.: Royalties: NuVasive (E), Medtronic (E), Globus (D); Consulting: Globus (C).

Drysch, Austin: Nothing to Disclose

du Plessis, Stephan J.: Nothing to Disclose

Du, Changzhi: Nothing to Disclose

Du, Jerry Y.: Nothing to Disclose

Duart Clemente, Javier Melchor: Trips/Travel: PRIM (B).

Dubory, Arnaud: Nothing to Disclose

Duculan, Roland: Nothing to Disclose

Dudley, R Adams: Nothing to Disclose

Duff, John-Michael: Nothing to Disclose

Dufour, Thierry: Royalties: LDR Medical (E); Trips/Travel: Synthes (B).

Duhancioglu, Gabriel: Nothing to Disclose

Dumas, Megan: Other Office: K2M (Salary).

Dumont, Justin D.: Nothing to Disclose

Duncan, Jonathan S.: Nothing to Disclose

Dunn, Conor: Nothing to Disclose

Dunsmuir, Robert: Speaking and/or Teaching Arrangements: DePuy (Amount not disclosed).

Durand, Lise: Nothing to Disclose

Durden, Emily: Consulting: DJO (F, Paid directly to institution/employer).

Duvall, Craig: Nothing to Disclose

Dvorak, Marcel F.: Royalties: Medtronic (G); Consulting: Medtronic (Amount not disclosed); Speaking and/or Teaching Arrangements: Medtronic (Consulting disclosed), Synthes (Amount not disclosed), AOSpine (Amount not disclosed); Trips/Travel: Medtronic (Travel expenses); Board of Directors: Vancouver Hospital Foundation Board (None); Scientific Advisory Board: Medtronic (Consulting disclosed); Endowments: University of British Columbia (F); Research Support - Staff and/or Materials: Medtronic (F); Grants: Medtronic (F), DePuy Spine (G), Rick Hansen Institute (H); Fellowship Support: Medtronic (E), Synthes (E), DePuy (E).

Easa, John E.: Stock Ownership: Janus Biotherapeutics (3%, Paid directly to institution/employer).

Easley, Jeremiah T.: Nothing to Disclose

Eastlack, Robert K.: Royalties: Globus Medical (B), NuTech (A); Stock Ownership: NuVasive (<1%), Spine Innovations (7%), Invuity (<1%), Alphatec (<1%), DiFusion (<1%); Private Investments: Top Doctors Labs (100%), Spine Innovations (8%), Nocimed (<1%); Consulting: K2M (C), Titan (A), SeaSpine (B), Atlas (None), Ulrich (A), NuVasive (F), Aesculap (C), NuTech (None), Stryker (B), Carevature (Stock Options, Paid directly to institution/employer), DePuy/Synthes (C), Alphatec (B); Speaking and/or Teaching Arrangements: AOSpine (B), Synthes/DePuy (None), Eli Lilly (B), UCSF (B); Board of Directors: San Diego Spine Foundation (None), InjureFree (Stock Options), Nocimed (None), SOLAS (None), Spine Innovations (Director); Scientific Advisory Board: Alphatec (None), DiFusion (None), Top Doctors Labs (None), Aesculap (None); Grants: Integra (D, Paid directly to institution/employer), NuVasive (D); Fellowship Support: NuVasive (D, Paid directly to institution/employer).

Ebersson, Craig: Royalties: Globus Medical (B); Consulting: Orthofix (B); Speaking and/or Teaching Arrangements: Stryker Spine (B); Scientific Advisory Board: Rare Disease Foundation (None); Research Support - Staff and/or Materials: Stryker Spine (A, Paid directly to institution/employer).

Eboch, William Maxwell: Nothing to Disclose

Eck, Jason C.: Speaking and/or Teaching Arrangements: AOSpine (B).

Eckardt, Mark A.: Nothing to Disclose

Eder, Claudia: Nothing to Disclose

Edis, David N.: Speaking and/or Teaching Arrangements: Medtronic (C); Trips/Travel: Medtronic (B).

Edwards, Charles: Device or Biologic Distributorship (Physician-Owned Distributorship): Scientific Spinal (B); Royalties: Dynasplint Systems (A); Stock Ownership: Autogenesis (40%); Board of Directors: Dynasplint Systems (A); Other Office: Scientific Spinal (B).

Edwards, Charles C.: Stock Ownership: Renovis Surgical (5%); Board of Directors: Renovis Surgical (None).

Eftekhary, Nima: Nothing to Disclose

Eichler, Martin: Nothing to Disclose

Eickmann, Thomas: Royalties: Renovis (B); Stock Ownership: Renovis (<1%); Consulting: Aesculap (B); Speaking and/or Teaching Arrangements: Surgical Specialties (B); Board of Directors: Alliance Surgical Distributors (B); Relationships Outside the One-Year Requirement: Mesa Surgical (Stock Ownership, Dissolved 12/2013, F).

Eiskjaer, Soren: Consulting: Medtronic (B).

Eisler, Jesse G.: Stock Ownership: Amedica (<1%); Private Investments: Spineology (<1%); Trips/Travel: AOSpine (A); Other: ECHN (Amount not disclosed, Director of Spine Programming at Eastern Connecticut Health Network).

Eismont, Frank J.: Royalties: Alphatec Spine Company (E); Stock Ownership: Alphatec Spine Company (<1%); Consulting: Alphatec Spine Company (B); Scientific Advisory Board: Alphatec Spine Company (B).

Eksi, Murat S.: Nothing to Disclose

El Dafrawy, Mostafa H.: Nothing to Disclose

El Shinawy, Sameh I.: Nothing to Disclose

Elbaor, James E.: Trips/Travel: Spine Frontier (A, Paid directly to institution/employer).

Elder, Benjamin D.: Nothing to Disclose

Eleswarapu, Ananth: Nothing to Disclose

Elgafy, Hossein: Nothing to Disclose

Elgafy, Hossein K.: Nothing to Disclose

Elibe, Erinma: Nothing to Disclose

Eller, Melinda: Nothing to Disclose

Elliott, Charles W.: Nothing to Disclose

Elliott, James M.: Private Investments: Pain ID (35%); Consulting: Pain ID (None).

Ellwitz, Joshua: Nothing to Disclose

Elmasry, Shady: Nothing to Disclose

Elmi Terander, Adrian: Nothing to Disclose

Elnekave, Eldad: Nothing to Disclose

Elsamadicy, Aladine A.: Nothing to Disclose

El-Sharkawi, Mohammad: Nothing to Disclose

Elshihabi, Said: Consulting: Centinel Spine (B); Research Support - Staff and/or Materials: Centinel Spine (B).

Eltorai, Adam: Nothing to Disclose

Elysee, Jonathan: Nothing to Disclose

Emami, Arash: Nothing to Disclose

Emery, Sanford E.: Board of Directors: American Board Orthopaedic Surgery (None), American Orthopaedic Association (None); Fellowship Support: AO Foundation (E, Paid directly to institution/employer).

En, Xie: Nothing to Disclose

Endriga, David: Nothing to Disclose

Enercan, Meric: Nothing to Disclose

Engler, Nils: Nothing to Disclose

Enix, Dennis E.: Research Support - Investigator Salary: Logan University (D, Paid directly to institution/employer), Standard Process (C, Paid directly to institution/employer); Grants: HRSA (D, Paid directly to institution/employer).

Enright, Austin: Nothing to Disclose

En'wezoh, Derick C.: Nothing to Disclose

Erdman, Arthur: Nothing to Disclose

Erdogan, Uzay: Nothing to Disclose

Erickson, Mark: Board of Directors: Pediatric Orthopaedic Society of North America (None); Relationships Outside the One-Year Requirement: Biomet (Speaking and/or Teaching Arrangement, Dissolved 12/2014, B).

Erickson, Melissa: Speaking and/or Teaching Arrangements: DePuy Synthes (B); Trips/Travel: DePuy Synthes (A).

Errico, Thomas J.: Royalties: Fastenetic (F); Speaking and/or Teaching Arrangements: K2M (C); Trips/Travel: K2M (D); Research Support - Staff and/or Materials: Pfizer (B, Paid directly to institution/employer); Grants: NIH (B, Paid directly to institution/employer); Fellowship Support: OMEGA (C, Paid directly to institution/employer).

Erwin, William Mark: Nothing to Disclose

Espinoza Orias, Alejandro: Research Support - Investigator Salary: NIH NCCAM (D, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: National Institutes of Health (Grant, Dissolved 09/2011).

Espinoza-Rebmann, Kathrin: Other Office: AO Foundation (Salary).

Esposito, Christina: Nothing to Disclose

Essig, David A.: Consulting: Precision Spine (B).

Eubanks, James: Nothing to Disclose

Eubanks, Jason D.: Nothing to Disclose

Eum, Jinhwa: Nothing to Disclose

Everett, Clifford R.: Nothing to Disclose

Eyster, Edward F.: Nothing to Disclose

Fahmy, Amr: Nothing to Disclose

Falavigna, Asdrubal: Nothing to Disclose

Faloon, Michael J.: Nothing to Disclose

Fandino, Javier: Nothing to Disclose

Fanti, Caroline L.: Nothing to Disclose

Fantini, Gary A.: Private Investments: Paradigm Spine (<1%); Consulting: Aesculap Spine (Amount not disclosed), NuVasive (Amount not disclosed).

Faour, Mhamad: Nothing to Disclose

Farhan, Saifal-Deen B.: Nothing to Disclose

Farley, Chad W.: Nothing to Disclose

Farrell, Dennis: Stock Ownership: FacetLINK (2%); Other Office: FacetLINK (F).

Farrokhi, Farrokh: Nothing to Disclose

Faryna, John: Nothing to Disclose

Fasciano, Daniella: Nothing to Disclose

Faye, Tara: Nothing to Disclose

Fayyazi, Amir H.: Stock Ownership: Stimwave (<1%), Bonovo (<1%), ISOI (<1%), Micron Device (<1%), Surgitech (<1%), Titan (<1%), Vertical Spine (Amount not disclosed); Relationships Outside the One-Year Requirement: NA (Royalties, Dissolved 2013, A).

Feger, Mark: Nothing to Disclose

Fehlings, Michael G.: Nothing to Disclose

Feldman, Alexa: Nothing to Disclose

Feldman, Lacey: Nothing to Disclose

Fennimore, Patrick: Nothing to Disclose

Ferguson, John A.: Stock Ownership: K2M (<1%); Consulting: K2M (B), Ellipse Technologies (A); Speaking and/or Teaching Arrangements: K2M (C).

Fernández, Enrique: Nothing to Disclose

Fernandez, Meagan: Consulting: Mazor (B), Medcrea (B).

Ferrara, Lisa A.: Consulting: OrthoKinetic Technologies (Amount not disclosed, Paid directly to institution/employer); Scientific Advisory Board: 4 Web (<1%).

Ferraro, Francis T.: Nothing to Disclose

Ferreira, Ronaldo: Nothing to Disclose

Ferrero, Emmanuelle: Nothing to Disclose

Ferreyro, Bruno: Nothing to Disclose

Ferrone, Marco: Nothing to Disclose

Ferry, Chris: Other Office: Zimmer Biomet Spine (Salary); Relationships Outside the One-Year Requirement: Zimmer Biomet Spine (Other Office, Dissolved 07/2015, E).

Ferski, Gabriela J.: Nothing to Disclose

Fessler, Richard G.: Royalties: Stryker (B), DePuy (B), Medtronic (B); Private Investments: In Queue Innovations (50%); Consulting: DePuy (None).

Fialkoff, Jared D.: Nothing to Disclose

Fice, Michael: Nothing to Disclose

Field, Antony: Nothing to Disclose

Fields, Aaron: Nothing to Disclose

Fields, Aaron J.: Nothing to Disclose

Fields, Kara: Nothing to Disclose

Fiere, Vincent: Royalties: Medcrea (E), Clariance (B); Consulting: Medcrea (D), Clariance (A); Trips/Travel: Medcrea (B), Clariance (A\$); Relationships Outside the One-Year Requirement: Medcrea (Royalties, E).

Finkelstein, Joel A.: Nothing to Disclose

Finkenberg, John G.: Board of Directors: North American Spine Society (Advocacy Council Director, Travel expenses); Research Support - Staff and/or Materials: Biomet (B).

Finn, Michael A.: Royalties: K2M (A); Consulting: K2M (B, Paid directly to institution/employer); Trips/Travel: K2M (B, Paid directly to institution/employer); Scientific Advisory Board: K2M (B, Paid directly to institution/employer).

Fischer, Charla R.: Consulting: Medcrea (Amount not disclosed); Speaking and/or Teaching Arrangements: Inuuity (Amount not disclosed).

Fish, David E.: Grants: Medtronic (C, Paid directly to institution/employer), St. Jude (C, Paid directly to institution/employer); Fellowship Support: Boston Scientific (C, Paid directly to institution/employer).

Fisher, Charles G.: Royalties: Medtronic (G); Consulting: Medtronic (E, Paid directly to institution/employer), NuVasive (B); Speaking and/or Teaching Arrangements: Medtronic (B), AOSpine B), NuVasive (B); Research Support - Staff and/or Materials: Medtronic (F, Paid directly to institution/employer); Grants: OREF (E, Paid directly to institution/employer); Fellowship Support: Medtronic (E, Paid directly to institution/employer), AOSpine (E, Paid directly to institution/employer), Johnson & Johnson (D, Paid directly to institution/employer).

Fitch, David S.: Nothing to Disclose

Flamm, Carole R.: Other Office: Blue Cross Blue Shield Association (Salary).

Fleishman, Daniel: Nothing to Disclose

Flippin, Michael A.: Nothing to Disclose
 Flood, Meghan: Nothing to Disclose
 Fogel, Guy R.: Nothing to Disclose
 Fogelson, Jeremy L.: Nothing to Disclose
 Foley, Kevin T.: Royalties: ArthroCare (B), Medtronic (I); Stock Ownership: Medtronic (38000 Shares), NuVasive (30000 Shares); Private Investments: DiscGenics (13%), Spine Wave (753000 Shares), TrueVision (5%), BioD (Amount not disclosed); Consulting: Medtronic (D), NuVasive (A); Board of Directors: MERI (None), DiscGenics (None), BioD (None), TrueVision (None).
 Foltz, Mary: Nothing to Disclose
 Foltz, Warren: Nothing to Disclose
 Fong, Alex: Nothing to Disclose
 Fonnesbeck, Christopher: Nothing to Disclose
 Foote, Clary J.: Nothing to Disclose
 Formby, Peter: Nothing to Disclose
 Fortin, Maryse: Nothing to Disclose
 Fortti, Fernanda: Nothing to Disclose
 Foster, Norah A.: Nothing to Disclose
 Fotopoulos, C. Ian: Speaking and/or Teaching Arrangements: Pfizer (None), North American Spine Society (Travel expenses), International Spine and Pain Institute (None), Stryker (B), Vertos (None), Eli Lilly (None).
 Fox, Adam: Nothing to Disclose
 Fradet, Leo: Nothing to Disclose
 France, Christopher: Nothing to Disclose
 France, John C.: Speaking and/or Teaching Arrangements: AOSpine (Amount not disclosed); Board of Directors: CSRS (Travel expenses); Fellowship Support: AO Foundation (E, Paid directly to institution/employer).
 Francis, Richard R.: Nothing to Disclose
 Francis, Shannon: Nothing to Disclose
 Francis, Todd B.: Nothing to Disclose
 Frank, Clay J.: Speaking and/or Teaching Arrangements: SI-BONE (B, Paid directly to institution/employer); Trips/Travel: SI-BONE (Travel expenses, Paid directly to institution/employer); Research Support - Investigator Salary: SI-BONE (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Wheaton Franciscan Healthcare (B, Paid directly to institution/employer).
 Frank, Kelly: Nothing to Disclose
 Freedman, Mitchell K.: Nothing to Disclose
 Freeman, Andrew L.: Other Office: Medical Device (Salary); Research Support - Investigator Salary: SI-BONE (B, Paid directly to institution/employer).
 Freeman, Thomas: Stock Ownership: ABT (<1%).
 Freeman, Thomas B.: Consulting: SIGNUS (Amount not disclosed); Scientific Advisory Board: K2M (Amount not disclosed); Other: DePuy Spine (Amount not disclosed).
 Frempong-Boadu, Anthony K.: Speaking and/or Teaching Arrangements: Medtronic (B).
 Freshman, Ryan: Nothing to Disclose
 Fridley, Jared S.: Nothing to Disclose
 Friedman, Daniel: Nothing to Disclose
 Friis, Elizabeth A.: Nothing to Disclose
 Frisch, Richard F.: Consulting: Globus (B); Speaking and/or Teaching Arrangements: Globus (D); Trips/Travel: Globus (B).

Frischmuth, Jan: Device or Biologic Distributorship (Physician-Owned Distributorship): LinkSpine (C); Consulting: LinkSpine (C); Speaking and/or Teaching Arrangements: Zimmer (B); Trips/Travel: LinkSpine (Travel expenses); Scientific Advisory Board: LinkSpine (A).

Fritzell, Peter: Nothing to Disclose

Frost, Andrew: Nothing to Disclose

Frost, Chelsea D.: Nothing to Disclose

Fu, Changfeng: Nothing to Disclose

Fu, Yang-Chieh: Nothing to Disclose

Fuentes, Stephane: Consulting: Medicrea (B), Medtronic (B).

Fuhrhop, Corey R.: Nothing to Disclose

Fuhrhop, Elizabeth J.: Nothing to Disclose

Fujimoto, Yoshinori: Nothing to Disclose

Fukunaga, Dudley: Nothing to Disclose

Funao, Haruki: Nothing to Disclose

Furey, Christopher G.: Nothing to Disclose

Furlan, Julio C.: Nothing to Disclose

Furman, Michael B.: Royalties: Elsevier (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: SIS (A); Trips/Travel: North American Spine Society (A).

Fyrner, Timmy: Nothing to Disclose

Gagey, Olivier: Nothing to Disclose

Gala, Raj: Nothing to Disclose

Galgano, Michael: Nothing to Disclose

Gall, Ken: Stock Ownership: Vertera (20%); Consulting: Vertera (Stock Options); Board of Directors: Vertera (Stock Options).

Galvis, Sarah Nikki: Nothing to Disclose

Gambassi, Melanie: Nothing to Disclose

Gammal, Isaac: Nothing to Disclose

Gandhi, Anand A.: Nothing to Disclose

Gantwerker, Brian R.: Consulting: Berkley East (Amount not disclosed).

Gaonkar, Bilwaj: Nothing to Disclose

Garber, Jason E.: Royalties: Orthofix (E), RTI Pioneer (D); Consulting: Centinel Spine (E); Research Support - Staff and/or Materials: Centinel Spine (D, Paid directly to institution/employer).

Garber, Tara: Nothing to Disclose

Garcia, Patricia: Nothing to Disclose

Garcia, Ralph K.: Nothing to Disclose

Garcia, Rolando: Consulting: Aesculap Implant Systems (Amount not disclosed); Speaking and/or Teaching Arrangements: Aesculap Implant Systems (Amount not disclosed); Trips/Travel: Aesculap Implant Systems (Amount not disclosed).

Gardner, Michael: Nothing to Disclose

Garfin, Steven R.: Royalties: DePuy Spine (D); Stock Ownership: Cross Tree (25000 Shares), Pioneer Surgical (10000 Shares), Spinal Kinetics (10000 Shares), SurgiFile (50000 Shares), Cytonics Corporation (2500 Shares), SI-BONE (200000 Shares); Consulting: VertiFlex (B, Paid directly to institution/employer), Magnifi Group (B, Paid directly to institution/employer), SI-BONE (Amount not disclosed), Globus Medical (A, Paid directly to institution/employer), Benvenue Medical (D, Paid directly to institution/employer), NuVasive (D, Paid directly to institution/employer), Spinal Kinetics (None); Speaking and/or Teaching Arrangements: DePuy (Travel expenses), Pioneer Surgical (B, Paid directly to institution/employer); Board of Directors: International Society for the Advancement of Spine Surgery (Travel expenses); Scientific Advisory Board: NuVasive (Amount not disclosed, Paid

directly to institution/employer), Spinal Kinetics (None), Spine Medical (None), VertiFlex (None), SI-BONE (None), Benvenue Medical (Amount not disclosed); Research Support - Staff and/or Materials: DePuy (D, Paid directly to institution/employer), EBI (D, Paid directly to institution/employer), Medtronic (E, Paid directly to institution/employer), NuVasive (E, Paid directly to institution/employer); Fellowship Support: Synthes Spine (E), DePuy (E), Medtronic (E), Biomet (D), AOSpine North America (D).

Garg, Bhavuk: Nothing to Disclose

Garg, Nitin N.: Nothing to Disclose

Garg, Sumeet: Royalties: Decision Support in Medicine (A, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Medtronic (Consulting, Dissolved 10/2014, B), Robert P Schuster (Expert Witness, Dissolved 9/2014, A), DePuy (Consulting, Dissolved 11/2013, B).

Garvin, Sean: Nothing to Disclose

Gattie, Eric: Nothing to Disclose

Gaudet, Andrew: Nothing to Disclose

Gecelter, Rachel: Nothing to Disclose

Geck, Matthew J.: Royalties: Zimmer (D); Stock Ownership: DiFusion (2%); Private Investments: DiFusion (Amount not disclosed); Consulting: Globus (B); Board of Directors: SpineHope (None).

Geddes, Benjamin J.: Nothing to Disclose

Geffen, Jon F.: Nothing to Disclose

Gehrchen, Martin: Consulting: Globus Medical (B), Medtronic (B), K2M (B); Speaking and/or Teaching Arrangements: Globus Medical (B), Medtronic (B), K2M (B).

Geisler, Fred: Royalties: Aesculap (C), Rhausler (A); Stock Ownership: Rhausler (34%), Surgitech (2%); Private Investments: Spinal Integration (<1%); Consulting: Spinal Restoration (None), Zyga (A), Acorda (A), Asubio (A), InVivo (B), Simplify Medical (A), Mesoblast (B), VertiFlex (C), Aesculap (B), NuVasive (A).

Gelb, Daniel E.: Royalties: Globus Medical (A), DePuy Synthes Spine (C); Consulting: Synthes Spine (B); Speaking and/or Teaching Arrangements: AOSpine North America (B); Fellowship Support: Synthes Spine (E).

Gennari, Antoine: Nothing to Disclose

Gentles, Stephanie: Nothing to Disclose

George, Jaiben: Nothing to Disclose

George, Stephen G.: Nothing to Disclose

Gepner, Bronislaw: Nothing to Disclose

Geraci, Michael C.: Nothing to Disclose

Gerdhem, Paul: Nothing to Disclose

Gerling, Michael C.: Consulting: Stryker (B); Speaking and/or Teaching Arrangements: Stryker (B).

Germerscheid, Niccole M.: Other Office: AOSpine (Salary).

Gerszten, Peter C.: Consulting: Zimmer Spine (Amount not disclosed).

Ghaffari, Mahsa: Nothing to Disclose

Ghailane, Soufiane: Nothing to Disclose

Ghiselli, Gary: Private Investments: DiFusion (9%); Consulting: New Era Orthopedics (B).

Ghondasra, Jason H.: Nothing to Disclose

Ghogawala, Zoher: Board of Directors: American Association of Neurological Surgeons - NeuroPoint Alliance (Board of Directors), Congress of Neurological Surgeons (Vice President), Cervical Spine Research Society (Board of Directors), North American Spine Society (Clinical Research Development Chair); Research Support - Staff and/or Materials: Stuart Foundation (F, Paid directly to institution/employer); Grants: NIH (A), PCORI (H, Paid directly to institution/employer).

Ghori, Ahmer K.: Nothing to Disclose

Gianakos, Arianna: Nothing to Disclose

Gibbert, Christina: Nothing to Disclose

Gibson, J. N. Alastair: Speaking and/or Teaching Arrangements: Joimax GmbH (B); Trips/Travel: Joimax (B); Relationships Outside the One-Year Requirement: Joimax GmbH (Speaking and/or Teaching Arrangement, Dissolved 03/2015, B).

Gidumal, Sunder: Nothing to Disclose

Gilbert, Thomas J.: Royalties: Steady State Imaging/GE (A); Private Investments: Invenshure (<1%), Invenshure Fund (<1%); Other Office: Diagnostic Imaging Holdings (Salary).

Gilder, Kye: Stock Ownership: NuVasive (2100 Shares, Paid directly to institution/employer).

Gill, Kevin: Nothing to Disclose

Gille, Olivier: Nothing to Disclose

Girardi, Federico P.: Royalties: Lanx (B, Paid directly to institution/employer), NuVasive (C, Paid directly to institution/employer), Ortho Development Corp. (C, Paid directly to institution/employer), DePuy Spine (D, Paid directly to institution/employer); Stock Ownership: Small Bone Innovations (<1%), Pioneer Surgical Technology (<1%), LifeSpine (<1%), Centinel Spine (<1%), Spinal Kinetics (<1%), Paradigm Spine (<1%); Consulting: Lanx (B), Gerson Lehrman Group (A), SpineArt USA (C), Ortho Development Corp. (C), DePuy Spine (B); Speaking and/or Teaching Arrangements: PharmaWrite (None); Scientific Advisory Board: Scient'x USA (None), Spinal Kinetics (None), Centinel Spine (None), SpineArt USA (None), HealthpointCapital (Amount not disclosed), Paradigm Spine (Amount not disclosed).

Gjolaj, Joseph P.: Nothing to Disclose

Glaeser, Juliane: Nothing to Disclose

Glaser, John A.: Relationships Outside the One-Year Requirement: SI-BONE (Grant).

Glassman, Steven D.: Royalties: Medtronic (H); Board of Directors: Scoliosis Research Society (Past President); Scientific Advisory Board: N2QOD (None); Research Support - Staff and/or Materials: Norton Healthcare (A, Paid directly to institution/employer); Other: NuVasive (None).

Gleiber, Michael A.: Nothing to Disclose

Glennon, Joseph: Nothing to Disclose

Glickman, Scott G.: Nothing to Disclose

Gliedt, Jordan: Nothing to Disclose

Glover, Michael R.: Nothing to Disclose

Glówka, Pawel: Nothing to Disclose

Godbout, Christopher J.: Nothing to Disclose

Godwin, Ellen: Nothing to Disclose

Godzik, Jake: Nothing to Disclose

Goehl, Justin M.: Nothing to Disclose

Goel, Vijay K.: Device or Biologic Distributorship (Physician-Owned Distributorship): Turning Point (B), Butterfly (A), EndoSphere (B); Royalties: Turning Point (B), Globus Spine (B); Stock Ownership: BONE (1000 Shares); Consulting: DePuy (Amount not disclosed), OrthoKinetic Technologies (Amount not disclosed); Scientific Advisory Board: Turning Point (None); Grants: DePuy (E).

Gokaslan, Ziya L.: Stock Ownership: Spinal Kinetics (<1%); Speaking and/or Teaching Arrangements: AO Foundation (Amount not disclosed); Trips/Travel: AO Foundation (Travel expenses); Research Support - Staff and/or Materials: AOSpine International (A, Paid directly to institution/employer).

Gökce, Emre Cemal: Nothing to Disclose

Gold, Heather: Nothing to Disclose

Gold, Menachem: Nothing to Disclose

Goldschmidt, Ezequiel: Nothing to Disclose

Goldstein, Christina L.: Trips/Travel: AOSpine North America (B, Paid directly to institution/employer); Other Office: AOSpine North America (Fellowship Committee), North American Spine Society (Section on Biologics and Basic Science).

Goldstein, Jeffrey A.: Royalties: NuVasive (C); Consulting: NuVasive (A), RTI (A), NLT Spine (A); Board of Directors: ISASS (None); Fellowship Support: OREF (A, Paid directly to institution/employer), AOSpine (E, Paid directly to institution/employer).

Golinvaux, Nicholas S.: Nothing to Disclose

Golish, S. Raymond: Stock Ownership: Cytonics (2%); Speaking and/or Teaching Arrangements: Cisco Systems (None); Trips/Travel: Cytonics (B), Medacta (C), NuVasive (B); Board of Directors: The Spine Foundation (None); Other: Food and Drug Administration (Travel expenses), AAOS Biomedical Engineering Committee (Travel expenses, Council on Research and Quality); Relationships Outside the One-Year Requirement: Victory Pharma (Consulting, Dissolved 01/2007, B).

Gombatto, Sara: Nothing to Disclose

Gómez Ruiz, Victoria: Nothing to Disclose

Gomez, Jaime A.: Nothing to Disclose

Gomez, Sergio: Nothing to Disclose

Goncalves, Sandy: Nothing to Disclose

Gonchar, Ivan: Nothing to Disclose

Goni, Vijay G.: Nothing to Disclose

Good, Christopher R.: Nothing to Disclose

Goode, Adam: Nothing to Disclose

Goodman, Robert: Other: Blue Care Network of Michigan (Salary).

Goodwin, C. Rory: Grants: NREF (D, Paid directly to institution/employer), Burroughs Wellcome Fund (C, Paid directly to institution/employer); Fellowship Support: UNCF-Merck Postdoctoral Science Fellowship (E, Paid directly to institution/employer).

Gopalakrishnan, Raghavan: Nothing to Disclose

Gordon, Zachary L.: Consulting: Ulrich Medical USA (A).

Gornet, Matthew F.: Royalties: Medtronic (F); Stock Ownership: Bonovo (4%), Ouroboros (4%), International Spine & Orthopedic Institute (5%), Nocimed (4%), Viscogliosi Bros Venture Partners (11%); Consulting: K2M (Amount not disclosed), Medtronic (Amount not disclosed).

Goss, Ben: Stock Ownership: NuVasive (<1%); Other Office: NuVasive (Salary).

Gottfried, Oren N.: Consulting: RTI (D); Speaking and/or Teaching Arrangements: RTI (D).

Gottlieb, Jonathan R.: Consulting: Medtronic (B); Speaking and/or Teaching Arrangements: Medtronic (E), SI-BONE (C); Scientific Advisory Board: Medtronic (B).

Gottschalk, Allan: Nothing to Disclose

Gowd, Anirudh K.: Nothing to Disclose

Goz, Vadim: Nothing to Disclose

Gozalbes-Esterelles, Laurabel: Nothing to Disclose

Grabala, Pawel: Nothing to Disclose

Grabal, Zachary: Nothing to Disclose

Grabowsky, Mary Beth M.: Other Office: Biomet Spine & Bone Healing Technologies (Salary), Becton, Dickinson and Company (Salary).

Grad, Sibylle: Nothing to Disclose

Graf, Nicolas: Research Support - Staff and/or Materials: Titan Spine (B, Paid directly to institution/employer).

Graf, Regula: Nothing to Disclose

Graham, James M.: Nothing to Disclose

Grande, Daniel A.: Nothing to Disclose

Gratch, Michael J.: Nothing to Disclose

Grauer, Jonathan N.: Consulting: Stryker (B), Andante Medical Devices (B), Vertex (B), Medtronic (A), Bioventus (B), ISTO Technologies (None); Grants: Orthopaedic Trauma Association (B, Paid directly to institution/employer); Other: Legal Consulting (Amount not disclosed).

Graves, Christopher: Nothing to Disclose

Gray, Richard: Stock Ownership: Integrated Mechanical Care (45%).

Grayson, Warren: Nothing to Disclose

Green, Adam: Nothing to Disclose

Green, Alana J.: Consulting: Canada East Spine Centre (D); Trips/Travel: Canada East Spine Centre (B).

Green, Bart: Consulting: Brighthall (F); Speaking and/or Teaching Arrangements: NCMIC (B); Trips/Travel: NCMIC (A).

Greenfield, Jeffrey P.: Nothing to Disclose

Greenfield, Sheldon: Nothing to Disclose

Greenspan, Stephanie: Nothing to Disclose

Gregori, Fabrizio: Nothing to Disclose

Gregory, Carl A.: Stock Ownership: Theodent Holdings (<1%, Paid directly to institution/employer); Consulting: SpineSmith (None); Scientific Advisory Board: Theodent Holdings (Stock Ownership disclosed, Paid directly to institution/employer); Research Support - Staff and/or Materials: SpineSmith Partners (A).

Gregory, Diane: Nothing to Disclose

Grevitt, Michael P.: Nothing to Disclose

Grewal, Harsh: Nothing to Disclose

Griffith, Brent: Nothing to Disclose

Griffith, Matthew S.: Nothing to Disclose

Grinberg, Samuel: Nothing to Disclose

Groff, Michael W.: Royalties: Johnson & Johnson (A), EBI (D); Consulting: EBI spine (None), DePuy (B); Fellowship Support: Society of Neurologic Surgeons (E).

Grossman, Robert G.: Scientific Advisory Board: Vertex Pharmaceuticals (B), Christopher Reeve Foundation (A), InSightec (A).

Groves, Mari L.: Nothing to Disclose

Gruber, Helen E.: Research Support - Staff and/or Materials: North American Spine Society (D).

Gruber, Jillian: Nothing to Disclose

Gruber, Robert D.: Private Investments: Laser Spine Institute (<1%).

Grunert, Peter: Nothing to Disclose

Guarnizo, Aura Lucia: Nothing to Disclose

Gudipally, Manasa: Stock Ownership: Globus Medical (1000 Shares, Paid directly to institution/employer); Other Office: Globus Medical (Salary).

Guldborg, Robert: Nothing to Disclose

Gum, Jeffrey L.: Consulting: LifeSpine (C), Medtronic (C), DePuy (B), Alphatec (B), Stryker (C), Acuity (B), PAKmed (A); Speaking and/or Teaching Arrangements: MiMedx (A), Pacira Pharmaceuticals (A); Grants: Fischer Owen Fund (B); Other: American Journal of Orthopaedics (Advisory/Editorial Board), The Spine Journal, American Journal of Orthopaedics (Reviewer), NuVasive (Amount not disclosed), International Spine Study Group Foundation (Amount not disclosed, Paid directly to institution/employer), Integra (Amount not disclosed, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: OREF (Fellowship Support, Dissolved 07/2014, A), AOSpine (Fellowship Support, Dissolved 07/2014).

Gummerson, Nigel W.: Consulting: Stryker (B), K2M (B); Speaking and/or Teaching Arrangements: Stryker (B), K2M (B).

Gump, William: Nothing to Disclose

Gumussuyu, Gurkan: Nothing to Disclose

Gundanna, Mukund I.: Royalties: Integra (C), SpineSmith (C); Consulting: SeaSpine (C), Providence (B), SI-BONE (B), VTI (B), Alpha D3 (C), Choice Spine (B), Amendia (B); Speaking and/or Teaching Arrangements: Celling Biosciences (B); Trips/Travel: SpineSmith (B), SI-BONE (B), VTI (A); Fellowship Support: Celling Biosciences (B).

Guner, Bulent: Nothing to Disclose

Gunzburg, Robert: Private Investments: Spineology (<1%); Consulting: LFC (Amount not disclosed); Scientific Advisory Board: Nanovis (Amount not disclosed).

Guo, Chang Ming: Nothing to Disclose

Guo, H. Michael: Nothing to Disclose

Guo, Hong: Nothing to Disclose

Guo, Hua: Nothing to Disclose

Guo, Yan: Nothing to Disclose

Gupta, Munish C.: Royalties: DePuy (F); Stock Ownership: Pioneer (100 Shares); Private Investments: Spinal Ventures (2%); Consulting: DePuy (B), Orthofix/Medicrea (C); Speaking and/or Teaching Arrangements: DePuy (B); Trips/Travel: DePuy Spine (B); Board of Directors: FOSA (None); Scientific Advisory Board: SRS (SRS Fellowship and Translational Committee Chair); Relationships Outside the One-Year Requirement: FOSA (Board of Directors, Dissolved 2/2015, Treasurer).

Gurd, David: Nothing to Disclose

Gussous, Yazeed M.: Nothing to Disclose

Guyen, Mustafa: Nothing to Disclose

Guyer, Richard D.: Royalties: Alphatec (B); Stock Ownership: Spinal Motion (None); Private Investments: Spinal Ventures I and II (5%); Consulting: DePuy/Synthes (B); Speaking and/or Teaching Arrangements: Synthes (None); Scientific Advisory Board: K2M (B), Flexuspine (Stock options), Spinal Kinetics (Stock options), Nanovis (A), Crocker Technologies (A), MiMedx (A); Fellowship Support: OREF (A, Paid directly to institution/employer), AOSpine (D, Paid directly to institution/employer), Medtronic Neurological Division (C, Paid directly to institution/employer).

Guzman, Javier: Nothing to Disclose

Gvozdyev, Borys: Trips/Travel: DePuy Synthes (Amount not disclosed), Amendia (Amount not disclosed), Medtronic (Amount not disclosed).

Gwak, Ho-Shin: Nothing to Disclose

Gwinn, David E.: Nothing to Disclose

H.S., RaviKumar: Nothing to Disclose

Ha, Alex: Nothing to Disclose

Ha, Yoon: Nothing to Disclose

Haas, Arnold: Nothing to Disclose

Haas, Mitchell: Nothing to Disclose

Habermann, Elizabeth: Nothing to Disclose

Hackney, David: Nothing to Disclose

Haddad, Sleiman: Nothing to Disclose

Haddas, Ram: Nothing to Disclose

Hadfield, James: Nothing to Disclose

Hadrien, Gliorgi: Nothing to Disclose

Hagan, Cary: Stock Ownership: Intrinsic Therapeutics (<1%); Private Investments: Intrinsic Therapeutics (<1%); Trips/Travel: Intrinsic Therapeutics (Travel expenses); Board of Directors: Intrinsic Therapeutics (None).

Haghighi, Siavash S.: Stock Ownership: NuVasive (<1%); Consulting: Eclipse Medical (None); Scientific Advisory Board: NuVasive (None); Relationships Outside the One-Year Requirement: NuVasive (Consulting, Dissolved 10/2011, A).

Hah, Raymond: Nothing to Disclose

Haladay, Douglas: Nothing to Disclose

Hale, Andrew: Nothing to Disclose

Hall, Justin M.: Nothing to Disclose

Hallberg, Sarah: Scientific Advisory Board: Virta health (None); Research Support - Investigator Salary: Virta Health (A, Paid directly to institution/employer); Research Support - Staff and/or Materials: Virta Health (A, Paid directly to institution/employer).

Hamamoto, Jason T.: Stock Ownership: NuVasive (<1%), Novartis (<1%).

Hamilton, D. Kojo: Nothing to Disclose

Hamzaoglu, Azmi: Nothing to Disclose

Han, Jing L.: Nothing to Disclose

Han, Patrick P.: Royalties: NuVasive (C); Consulting: MicroVention (C); Speaking and/or Teaching Arrangements: NuVasive (B); Trips/Travel: NuVasive (B).

Han, Summer: Nothing to Disclose

Han, Xiao: Nothing to Disclose

Hanley, Edward N.: Stock Ownership: Medtronic (<1%); Research Support - Investigator Salary: North American Spine Society (D).

Hanley, Jessica: Nothing to Disclose

Hanna, Amgad S.: Nothing to Disclose

Hanna, Michael: Stock Ownership: Mercury Medical Research & Writing (100%), Mercury Spine Healthcare Consulting (100%); Consulting: Invibio (B, Paid directly to institution/employer), Icotec (B, Paid directly to institution/employer), Invuity (B, Paid directly to institution/employer), North American Spine Foundation (A); Speaking and/or Teaching Arrangements: North American Spine Foundation (None); Trips/Travel: North American Spine Foundation (Travel expenses); Board of Directors: Mercury Healthcare Innovation Greenhouse (None); Research Support - Investigator Salary: Invibio (Consulting disclosed), Icotec (Consulting disclosed), Invuity (consulting disclosed), North American Spine Foundation (Consulting disclosed).

Hansen, Erik: Nothing to Disclose

Hansen-Algenstaedt, Nils: Royalties: Stryker (Amount not disclosed); SpineArt (C, Paid directly to institution/employer), Globus Medical (C, Paid directly to institution/employer); Consulting: DePuy Synthes (B), Stryker (B), SpineArt (B), Aesculap (B); Speaking and/or Teaching Arrangements: AOSpine (B, Paid directly to institution/employer), DePuy Synthes (B, Paid directly to institution/employer), SpineArt (B, Paid directly to institution/employer), Stryker (B, Paid directly to institution/employer); Trips/Travel: AOSpine (B, Paid directly to institution/employer), DePuy Synthes (B, Paid directly to institution/employer), SpineArt (B, Paid directly to institution/employer), Stryker (B, Paid directly to institution/employer).

Hao, Dingjun: Nothing to Disclose

Hao, John: Nothing to Disclose

Hardy St-Pierre, Godefroy: Nothing to Disclose

Hariharan, Karthik: Nothing to Disclose

Harn, Nicholas: Nothing to Disclose

Harpole, Bethany: Nothing to Disclose

Harrell, Frank E.: Consulting: Medtronic (B, Paid directly to institution/employer); Research Support - Investigator Salary: Medtronic (D).

Harrington, J. Frederick: Nothing to Disclose

Harris, Bradley: Nothing to Disclose
Harris, Colin B.: Nothing to Disclose
Harris, Dominic: Nothing to Disclose
Harris, Elizabeth N.: Nothing to Disclose
Harris, Jeffrey E.: Stock Ownership: NuVasive (<1%).
Harris, Jonathan: Other Office: Employee (Salary).
Harris, Mitchel: Consulting: HCRI (None), Medtronic (Amount not disclosed, Paid directly to institution/employer); Board of Directors: North American Spine Society (Governance Committee Chair).
Harris, Simon: Nothing to Disclose
Harrop, James S.: Royalties: Jaypee Publishing (A); Consulting: DePuy Spine (C, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (None); Board of Directors: Jefferson Medical College Physician Board (None); Scientific Advisory Board: Bioventus (B); Other Office: Bioventus (B), Asterias (B); Grants: AOSpine (E, Paid directly to institution/employer); Fellowship Support: NREF (E, Paid directly to institution/employer); Other: Teijin (B).
Harshavardhana, Nanjundappa S.: Nothing to Disclose
Hart, Robert A.: Royalties: SeaSpine (E), DePuy Synthes (B); Consulting: DePuy Synthes (C), Globus (B); Speaking and/or Teaching Arrangements: DePuy Synthes (C), Globus (B); Other Office: AAOS (Editor), International Spine Study Group (Executive Committee), CSRS (Editorial Committee, Editorial Board), Spine (Assistant Editorial Board), AAOS (Instructional Course Committee), American Orthopaedic Association (Leadership Development Committee), Cervical Spine Research Society (Education Committee), Lumbar Spine Research Society (Membership Committee), North American Spine Society (Governance Committee), Oregon Association of Orthopaedics (Board Member), OREF (Review Committee, Prospective Clinical Grant Research), Scoliosis Research Society (Deformity Committee); Grants: ISSGF (C, Paid directly to institution/employer); Fellowship Support: OMEGA (D), DePuy Synthes (E); Relationships Outside the One-Year Requirement: Medtronic (Grant, Dissolved 12/2007, D), DePuy Synthes (Fellowship Support, Dissolved 07/2010, E), AO (Speaking and/or Teaching Arrangement, Dissolved 12/2005, B).
Hartl, Roger: Royalties: Lanx (B); Consulting: DePuy Synthes (B); Speaking and/or Teaching Arrangements: Baxter (A), Brainlab (A); Board of Directors: AOSpine (B).
Hartveldt, Stefan: Nothing to Disclose
Harwood, Kenneth J.: Nothing to Disclose
Hasan, Saqib: Nothing to Disclose
Hasharoni, Amir: Nothing to Disclose
Hashmi, Sohaib: Nothing to Disclose
Hassanzadeh, Hamid: Nothing to Disclose
Hatchette, Todd: Board of Directors: Halifax Sexual Health Clinic (None); Other Office: Medical Microbiology and Infectious Diseases, Canada (incoming President); Grants: GSK (E).
Haug, Christine: Nothing to Disclose
Haug, Emanuel C.: Nothing to Disclose
Havey, Robert M.: Nothing to Disclose
Haward, Charles: Nothing to Disclose
Hawkinson, Nicola V.: Stock Ownership: SpineSearch (95 Shares); Consulting: DePuy Spine (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: DePuy Spine (Amount not disclosed, Paid directly to institution/employer); Board of Directors: SpineSearch (Shares).
Hawthorne, Dana L.: Nothing to Disclose

Hayakawa, Kentaro: Nothing to Disclose
Hayashi, Kazunori: Nothing to Disclose
Hayden, Andy: Nothing to Disclose
Hayes, Ann M.: Nothing to Disclose
Haynes, Jacob A.: Nothing to Disclose
He, Baorong: Nothing to Disclose
He, Xijing: Nothing to Disclose
He, Zhigang: Nothing to Disclose
Head, Richard: Nothing to Disclose
Healy, Andrew T.: Nothing to Disclose
Heary, Robert F.: Royalties: DePuy Spine (F), Zimmer (C), Thieme (A); Board of Directors: CSRS (Board Member), LSRS (Board Member), AANS (Board Member).
Hecht, Andrew: Royalties: Zimmer Spine (B, Paid directly to institution/employer); Consulting: Stryker Spine (None), Medtronic (B), Zimmer Spine (C, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (None); Scientific Advisory Board: Musculoskeletal Transplant Foundation (None), Zimmer Spine (C); Grants: OREF Grant (C).
Hedayat, Hiran S.: Nothing to Disclose
Hegazy, Mostafa: Nothing to Disclose
Hegde, Sajan K.: Royalties: Globus Medical (B); Consulting: Globus Medical (B); Speaking and/or Teaching Arrangements: Globus Medical (B); Trips/Travel: Globus Medical (B); Scientific Advisory Board: Globus Medical (B); Fellowship Support: Globus Medical (B).
Heggeness, Michael H.: Royalties: Relievant Medsystems (C, Paid directly to institution/employer), K2M (C, Paid directly to institution/employer); Stock Ownership: Relievant Medsystems (45000 Shares); Consulting: Intrinsic Orthopaedics (None); Other: North American Spine Society (Travel expenses).
Heindel, Patrick: Nothing to Disclose
Helber, Andrew: Nothing to Disclose
Held, Ulrike: Nothing to Disclose
Helgeson, Melvin D.: Nothing to Disclose
Heller, Joshua E.: Nothing to Disclose
Hennessy, Ryon M.: Consulting: Benvenue Medical (C); Speaking and/or Teaching Arrangements: Benvenue Medical (Consulting disclosed); Scientific Advisory Board: Benvenue Medical (Consulting disclosed).
Henry, Jensen: Nothing to Disclose
Hepler, Matthew D.: Nothing to Disclose
Herdmann, Jörg: Nothing to Disclose
Herman, Patricia: Nothing to Disclose
Hernandez Ramajo, Ruben: Nothing to Disclose
Herring, Stanley A.: Stock Ownership: Vicis (2%); Scientific Advisory Board: X2 Biosystems (None).
Herseth, Jonathan: Nothing to Disclose
Hershman, Stuart H.: Relationships Outside the One-Year Requirement: DePuy Synthes Spine (Consulting, Dissolved 03/2014, B), DePuy Synthes Spine (Speaking and/or Teaching Arrangement, Dissolved 00/2014, B).
Herzog, Tyler: Nothing to Disclose
Hes, Robert: Device or Biologic Distributorship (Physician-Owned Distributorship): Globus (A); Royalties: Globus (C); Stock Ownership: Gentis (Amount not disclosed), Rainier (Amount not disclosed); Consulting: Synthes (Amount not disclosed); Speaking and/or Teaching Arrangements: Medtronic (Amount not disclosed); Trips/Travel: Synthes (Consulting disclosed).
Hesham, Khalid: Nothing to Disclose

Hess, Daniel: Nothing to Disclose

Hevia, Eduardo: Nothing to Disclose

Hey, Lloyd A.: Nothing to Disclose

Hiatt, Luke: Nothing to Disclose

Hickam, Grace: Nothing to Disclose

Hides, Julie: Nothing to Disclose

Hijikata, Yasukazu: Nothing to Disclose

Hilibrand, Alan S.: Royalties: Biomet Spine (G), Amedica (D), Aesculap (B); Stock Ownership: Amedica (<1%), LifeSpine (<1%), Spinal Ventures (3%); Private Investments: Benvenue (B), Nexgen (B), Paradigm Spine (B), Pioneer (<1%), PSD (B), VertiFlex (B); Board of Directors: AAOS (Communications Cabinet Chair), CSRS (President), North American Spine Society (Continuing Medical Education Committee Chair).

Hill, Clint P.: Royalties: Zimmer/Biomet (E); Private Investments: Vertera Spine (<1%); Consulting: Zimmer/Biomet (E); Speaking and/or Teaching Arrangements: Zimmer/Biomet (Amount not disclosed); Trips/Travel: Zimmer/Biomet (Travel expenses); Research Support - Investigator Salary: Zimmer/Biomet (D); Research Support - Staff and/or Materials: Zimmer/Biomet (B).

Himes, Nathan C.: Nothing to Disclose

Hinrichs, Mark J.: Nothing to Disclose

Hinrichs, Richard N.: Nothing to Disclose

Hipp, John A.: Stock Ownership: Medical Metrics (8%); Consulting: Medical Metrics (Amount not disclosed, Paid directly to institution/employer); Other Office: Medical Metrics (Salary).

Hiratzka, Jayme R.: Fellowship Support: NuVasive (D, Paid directly to institution/employer).

Hiratzka, Shannon: Nothing to Disclose

Hirsch, Brandon P.: Nothing to Disclose

Hirschfeld, Cole: Nothing to Disclose

Hisey, Michael S.: Royalties: Zimmer Spine (B), LDR Spine (B); Stock Ownership: Spine Wave (<1%); Private Investments: Medical Venture Fund (<1%); Consulting: Zimmer Spine (B), LDR Spine (D); Speaking and/or Teaching Arrangements: LDR Spine (Amount not disclosed); Board of Directors: Texas Health Presbyterian Hospital of Flower Mound (Amount not disclosed), TBI CRO (None).

Ho, Pei-Shu: Nothing to Disclose

Hockley, Aaron: Nothing to Disclose

Hodes, Richard: Nothing to Disclose

Hodges, Paul: Nothing to Disclose

Hodges, Scott: Nothing to Disclose

Hoelscher, Gretchen L.: Nothing to Disclose

Hoffberg, Adam: Nothing to Disclose.

Hoffecker, Lilian: Nothing to Disclose

Hoffman, Gregory A.: Royalties: LDR Spine (B); Stock Ownership: LDR Spine (50000 Shares); Private Investments: Path 4 Venture Capital Fund (3%); Consulting: LDR Spine (C); Speaking and/or Teaching Arrangements: LDR Spine (B); Trips/Travel: LDR Spine (Speaking and/or Teaching Arrangements disclosed); Scientific Advisory Board: LDR Spine (None); Research Support - Staff and/or Materials: LDR Spine (D).

Hoffmann, Martin F.: Nothing to Disclose

Hofstetter, Christoph P.: Consulting: In Vivo therapeutics (B).

Hoh, Daniel J.: Nothing to Disclose

Hollern, Douglas: Nothing to Disclose

Holly, Langston T.: Consulting: Medtronic (C); Grants: NIH (F, Paid directly to institution/employer).

Holmes Higgin, Debby: Stock Ownership: Benvenue Medical (<1%, Paid directly to institution/employer); Other Office: Benvenue Medical (Salary).

Holmes, Christina: Nothing to Disclose

Holt, Timothy A.: Speaking and/or Teaching Arrangements: SI-BONE (G, Paid directly to institution/employer); Trips/Travel: SI-BONE (B).

Homan, Robert: Nothing to Disclose

Hompe, Eliza: Nothing to Disclose

Honda, Paulo M.: Nothing to Disclose

Hong, Minyoung: Nothing to Disclose

Hongo, Michio: Nothing to Disclose

Horn, Scott I.: Speaking and/or Teaching Arrangements: North American Spine Society (Travel expenses), AAPMR (Travel expenses), SIS (Travel expenses); Board of Directors: Spine Intervention Society (Travel expenses); Other Office: CPT Advisor for SIS (Travel expenses).

Hornberger, John: Research Support - Staff and/or Materials: Benvenue (D, Paid directly to institution/employer).

Horne, Phillip: Nothing to Disclose

Hornicek, Francis J.: Consulting: Stryker Corporation (B), Biomed Valley Discoveries (B); Speaking and/or Teaching Arrangements: Stryker Spine (B), Stryker Corporation (B); Board of Directors: AATB (None); Scientific Advisory Board: DTRF (None), Chordoma Foundation (None); Grants: SPORE NIH grant (A).

Horwitz, Olivia: Nothing to Disclose

Hoshino, Masatoshi: Nothing to Disclose

Hosogane, Naobumi: Nothing to Disclose

Hosseini, Pooria: Nothing to Disclose

Hostin, Richard A.: Consulting: DePuy Spine (B); Research Support - Staff and/or Materials: DePuy Spine (F), Seeger (F), NuVasive (F), DJO (E), K2M (D).

Hotchkiss, William R.: Nothing to Disclose

Hou, Yu: Nothing to Disclose

Hou, Yunfei: Nothing to Disclose

Houdek, Matthew: Nothing to Disclose

Hovorka, Istvan: Royalties: LDR Medical (E).

Howell, Kelli: Stock Ownership: NuVasive (10000 Shares); Trips/Travel: NuVasive (Amount not disclosed); Board of Directors: Society of Lateral Access Surgery (None); Other Office: NuVasive (Salary); Relationships Outside the One-Year Requirement: NuVasive (Other, A).

Howley, Susan: Nothing to Disclose

Hresko, Michael T.: Stock Ownership: Johnson and Johnson (<1%); Consulting: DePuy Spine (B); Trips/Travel: Scoliosis Research Society (B).

Hsieh, Adam H.: Research Support - Staff and/or Materials: Synthes USA (F, Paid directly to institution/employer), RTI (E, Paid directly to institution/employer).

Hsieh, Patrick C.: Consulting: DePuy Synthes Spine (C), Medtronic (D); Speaking and/or Teaching Arrangements: Siemens (B).

Hsieh, Yi-Chen: Nothing to Disclose

Hsu, Andrew C.: Nothing to Disclose

Hsu, Erin L.: Other Office: Orthopaedic Research Society (Media Relations and Communications Committee); Grants: Medtronic (D); Relationships Outside the One-Year Requirement: Medtronic Sofamor Danek (Grant, Dissolved 05/2011, F).

Hsu, Eugene: Stock Ownership: Video Medicine (<1%); Trips/Travel: American Society of Anesthesiologists (B); Board of Directors: Video Medicine (Stock options); Other Office: American Society Anesthesiologists Committee on Economics (Travel expenses); Fellowship Support: The

Stanford Center for Clinical and Translational Research and Education (A, Paid directly to institution/employer).

Hsu, Liangge: Nothing to Disclose

Hsu, Wellington K.: Consulting: Stryker (D), Relievant (C), Bacterin (A), CeramTec (C), Graftys (A), Globus (B), AONA (B), Medtronic (C), Bioventus (B); Speaking and/or Teaching Arrangements: AONA (B); Trips/Travel: Stryker (B), Pioneer Surgical (B), Medtronic (B), Bioventus (A), AONA (B); Board of Directors: Lumbar Spine Research Society (None), Cervical Spine Research Society (None); Scientific Advisory Board: Bioventus (None); Grants: Medtronic (E, Paid directly to institution/employer).

Hu, Huimin: Nothing to Disclose

Hu, Richard: Stock Ownership: Vivametrika (32%); Private Investments: Vivametrika (32%); Board of Directors: Vivametrika (CEO); Other Office: CEO (Stock Options).

Hu, Serena S.: Royalties: NuVasive (F); Consulting: Medtronic (A); Speaking and/or Teaching Arrangements: Medtronic (None); Trips/Travel: Synthes, Medtronic (None); Board of Directors: ISSLS (None).

Hu, Xiaobang: Nothing to Disclose

Hu, Xueyu: Nothing to Disclose

Hu, Yong: Nothing to Disclose

Huang, Dageng: Nothing to Disclose

Huang, Danning: Nothing to Disclose

Huang, Hsiang-Ming: Nothing to Disclose

Huang, Ronald: Nothing to Disclose

Huddleston, Paul M.: Fellowship Support: AOSpine (E, Paid directly to institution/employer).

Hudson, Katherine: Nothing to Disclose

Huebner, Stephen: Nothing to Disclose

Hughes, Alexander P.: Research Support - Investigator Salary: MiMedx (C, Paid directly to institution/employer); Fellowship Support: NuVasive (E, Paid directly to institution/employer).

Hughes, Jonathan: Nothing to Disclose

Hullinger, Heidi M.: Speaking and/or Teaching Arrangements: Magnifi Group (A); Trips/Travel: Mazor (Travel expenses); Research Support - Staff and/or Materials: Globus (A).

Humphries, William: Nothing to Disclose

Huncke, Tessa K.: Nothing to Disclose

Hung, Man: Nothing to Disclose

Hunt, Devon: Nothing to Disclose

Hunter, Allison: Nothing to Disclose

Hunter, Ross: Nothing to Disclose

Huo, Keun Heng: Nothing to Disclose

Huppert, Jean: Royalties: LDR Medical France (F); Stock Ownership: LDRH (<1%).

Hur, Jung-Woo: Nothing to Disclose

Hurwitz, Eric: Consulting: RAND Corporation (B), Western University of Health Sciences (B), National Institutes of Health (A), Southern California University of Health Sciences (B), The North Carolina State Health Plan for Teachers and State Employees (B); Trips/Travel: Global Spine Care Initiative (B), RAND Corporation (B); Other Office: The Spine Journal (Deputy Editor); Research Support - Investigator Salary: National Institutes of Health (B, Paid directly to institution/employer); Other: Palmer Center for Chiropractic Research (Palmer Center for Chiropractic Research Data Chair, Safety Monitoring Committee.), World Spine Care (World Spine Care Research Committee Co-chair), Global Spine Care Initiative (Global Spine Care Initiative Scientific Secretariat.).

Huskic, Arnes: Nothing to Disclose

Huss, John: Nothing to Disclose

Hussain, Mir: Other: Musculoskeletal Education and Research Center (Salary).

Hussein, Ahmed Z.: Nothing to Disclose

Hustedt, Joshua W.: Nothing to Disclose

Hutchins, Jacob: Consulting: Pacira (C); Speaking and/or Teaching Arrangements: Halyard Health (C), Pacira (D); Research Support - Staff and/or Materials: Pacira (D, Paid directly to institution/employer).

Hwang, Ki S.: Nothing to Disclose

Hwang, Sang-Phil: Nothing to Disclose

Hwang, Steven W.: Speaking and/or Teaching Arrangements: North American Spine Society (A), DePuy (None).

Hyeunjun, Park: Nothing to Disclose

Iantorno, Stephanie: Nothing to Disclose

Ibrahim, Ahmed: Nothing to Disclose

Ihn, Hansel E.: Nothing to Disclose

Imagama, Shiro: Nothing to Disclose

Immediato, Mara D.: Nothing to Disclose

Ingram, Jane: Nothing to Disclose

Inoue, Nozomu: Research Support - Investigator Salary: NIH (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: NIH (E, Paid directly to institution/employer); Grants: NIH (F, Paid directly to institution/employer).

Inoue, Shinichi: Nothing to Disclose

Iorio, Justin A.: Nothing to Disclose

Iqbal, Aamir: Nothing to Disclose

Isaacs, Robert E.: Royalties: NuVasive (F); Stock Ownership: Villaspine Limited (100%), Providence (<1%), Saferay Spine (Amount not disclosed), SafeWire (33334 Shares), Vertera (<1%); Private Investments: SafeWire (30000 Shares); Consulting: NuVasive (D); Trips/Travel: Vertera (A); Board of Directors: SafeWire (Stock Options), Saferay Spine (Director); Scientific Advisory Board: Providence (B); Research Support - Staff and/or Materials: NuVasive (C, Paid directly to institution/employer).

Isenman, David: Consulting: Annexion Biosciences (B).

Ishida, Wataru: Nothing to Disclose

Ishii, Ken: Nothing to Disclose

Ishikawa, Yoshinori: Nothing to Disclose

Ishmael, Chad: Nothing to Disclose

Israel, Heidi: Nothing to Disclose

Issa, Kimona: Nothing to Disclose

Ith, Ma.Agnes: Nothing to Disclose

Ito, Manabu: Device or Biologic Distributorship (Physician-Owned Distributorship): Century Medical Co. (B); Trips/Travel: AOSpine (B).

Itshayek, Eyal: Speaking and/or Teaching Arrangements: Alphatec (Travel expenses); Research Support - Staff and/or Materials: M-Fast (D, Paid directly to institution/employer).

Iusupov, Marat: Nothing to Disclose

Iwata, Eiichiro: Nothing to Disclose

Iyer, Sravisht: Nothing to Disclose

Jack, Megan M.: Nothing to Disclose

Jackson, Avery M.: Nothing to Disclose

Jackson, Robert J.: Royalties: Globus Spine (C); Stock Ownership: Medtronic (<1%), LDRH (<1%), Globus Spine (<1%); Speaking and/or Teaching Arrangements: LDR (C); Relationships Outside the One-Year Requirement: LDR (Research Support: Staff and/or Materials, Dissolved 07/2015, A).

Jackson, Robert S.: Consulting: Stryker (B).

Jackson, Roger P.: Royalties: Biomet (H), Scient'x (D), Medtronic (I), Aesculap (G), Zimmer (H), NuVasive (H), Amedica (F), Renovis (D); Relationships Outside the One-Year Requirement: Mizuho OSI (Royalties, Dissolved 4/2011), Alphatec (Royalties, Dissolved 1/2011), DePuy (Royalties, Dissolved 1/2012), Theken (Royalties, Dissolved 1/2010).

Jacobs, Joshua: Stock Ownership: Implant Protection (<1%); Board of Directors: AAOS (B); Grants: Zimmer (C), NuVasive (C), Medtronic (D); Relationships Outside the One-Year Requirement: Medtronic (Royalties).

Jacobson, Mark: Nothing to Disclose

Jacquot, Frederic P.: Trips/Travel: Stryker (A), Vexim (A), Medtronic (B).

Jain, Amit: Nothing to Disclose

Jain, Deeptee: Nothing to Disclose

Jain, Nickul S.: Nothing to Disclose

Jakoi, Andre: Nothing to Disclose

Jakus, Adam E.: Nothing to Disclose

Jalai, Cyrus M.: Nothing to Disclose

Jallo, George I.: Consulting: Johnson & Johnson (A); Grants: Medtronic (C); Fellowship Support: Codman (C, Paid directly to institution/employer).

Jallo, Jack: Nothing to Disclose

Jamet, Nicolas: Nothing to Disclose

Jancuska, Jeffrey: Nothing to Disclose

Jang, Hae-Dong: Nothing to Disclose

Jang, Jae-Won: Nothing to Disclose

Jang, Soojin: Nothing to Disclose

Janjua, Muhammad B.: Nothing to Disclose

Janssen, Insa: Nothing to Disclose

Janssen, Michael E.: Device or Biologic Distributorship (Physician-Owned Distributorship): WYCO Implant Distribution (D); Consulting: Cerapedics Osteobiologics (E, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: DePuy Synthes (B); Research Support - Staff and/or Materials: Synthes-DePuy Spine (C, Paid directly to institution/employer).

Janssen, Michiel: Nothing to Disclose

Janssen, Stein: Grants: KWF Kankerbestrijding (B).

Janusz, Piotr: Nothing to Disclose

Jasarevic, Mahir: Nothing to Disclose

Jazini, Ehsan: Nothing to Disclose

Jeanneret, Bernard: Nothing to Disclose

Jean-Pierre, Darlene K.: Nothing to Disclose

Jedrzejek, Adrian: Nothing to Disclose

Jee, Young: Nothing to Disclose

Jegade, Kola: Nothing to Disclose

Jeji, Tara: Nothing to Disclose

Jenis, Louis G.: Royalties: Stryker Spine (E); Consulting: Stryker Spine (C); Scientific Advisory Board: SurgiVision-Vallum (None).

Jenkins, Arthur L.: Private Investments: Neurotect (50%), Pemaquid Holdings (50%).

Jenkins, Sean: Other Office: Globus Medical (Salary).

Jensen, Rubens: Nothing to Disclose

Jeon, Chang-Hoon: Nothing to Disclose

Jeon, Tina: Nothing to Disclose

Jeong, Yongjin: Nothing to Disclose
Jeray, Kyle J.: Consulting: Zimmer (D), Eli Lilly (A); Speaking and/or Teaching Arrangements: AO North America (Travel expenses).
Jevsevar, David S.: Nothing to Disclose
Ji, Hongquan: Nothing to Disclose
Ji, Mingliang: Nothing to Disclose
Jiang, Long: Nothing to Disclose
Jiang, Qing: Nothing to Disclose
Jimenez Viseu Pinheiro, Juan Fernando: Nothing to Disclose
Jimenez, Omar F.: Nothing to Disclose
Jimenez, Xavier: Nothing to Disclose
Jin, Li: Nothing to Disclose
Jin, Mengran: Nothing to Disclose
Jing, Guo: Nothing to Disclose
Jinwen, Zhu: Nothing to Disclose
Job, Alan: Nothing to Disclose
Johal, Herman: Nothing to Disclose
Johnson, Claire: Consulting: NCMIC (D), Global Spine Care Initiative (Travel expenses).
Johnson, Evan K.: Nothing to Disclose
Johnson, J. Patrick: Grants: Medtronic (F).
Johnson, Joseph: Nothing to Disclose
Johnston, Lynn: Nothing to Disclose
Johnstone, Brian: Royalties: Osiris Therapeutic, Inc. (B); Scientific Advisory Board: AO Research Institute, Davos, Switzerland (B); Research Support - Investigator Salary: Orthofix (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: Orthofix (D, Paid directly to institution/employer); Grants: Orthofix (F, Paid directly to institution/employer).
Jones, Kristen E.: Consulting: Bard-Davol (A).
Jones, Whitney: Nothing to Disclose
Joo, Jungnam: Nothing to Disclose
Joo, LiJin: Nothing to Disclose
Jorgensen, Anton Y.: Nothing to Disclose
Joseph, Jacob: Nothing to Disclose
Joshi, Anand B.: Nothing to Disclose
Joshi, Rupali: Nothing to Disclose
Joshua, Gita: Stock Ownership: Globus Medical (<1%); Other Office: Globus Medical (Salary).
Josiah, Darnell T.: Nothing to Disclose
Ju, Kevin L.: Nothing to Disclose
Julien, Terrence D.: Consulting: Stryker Spine (Amount not disclosed), Amendia/Aurora division (Amount not disclosed), IMSE (Amount not disclosed), Exactech (Amount not disclosed), Spine Wave (Amount not disclosed), Camber Spine (Amount not disclosed); Speaking and/or Teaching Arrangements: Stryker Spine (Amount not disclosed), Exactech (Amount not disclosed), Camber Spine (Amount not disclosed).
Jung, Edward: Nothing to Disclose
Jung, Gyungsik: Nothing to Disclose
Jung, Yousun: Nothing to Disclose
Justice, Brian: Stock Ownership: Spine Care Partners (20%); Other Office: Vice President (None); Other: Primary Spine Provider Network (20%).
Justice, Lori A.: Nothing to Disclose

Kaakaji, Wayel: Nothing to Disclose
Kachur, Edward: Nothing to Disclose
Kacker, Ashutosh: Nothing to Disclose
Kadri, Omar: Nothing to Disclose
Kahraman, Sinan: Nothing to Disclose
Kahwaty, Sheila: Nothing to Disclose
Kaito, Takashi: Nothing to Disclose
Kakar, Rumit S.: Nothing to Disclose
Kalani, Yashar: Nothing to Disclose
Kalantar, S. B.: Stock Ownership: 4 Web (<1%); Consulting: NuVasive (B), Precision Spine (B), Medtronic (B); Speaking and/or Teaching Arrangements: NuVasive (B).
Kalb, Samuel: Nothing to Disclose
Kale, Shashank: Nothing to Disclose
Kalfas, Iain H.: Royalties: Mako Surgical (B); Stock Ownership: Paradigm Spine (<1%).
Kallakuri, Srinivasu: Nothing to Disclose
Kallur, Antony: Nothing to Disclose
Kalsi-Ryan, Sukhvinder: Royalties: GRASSP (B, Paid directly to institution/employer); Consulting: Neural Outcomes Consulting (B, Paid directly to institution/employer).
Kamal, Rob: Nothing to Disclose
Kamath, Rahul: Nothing to Disclose
Kamis, Katherine: Nothing to Disclose
Kanas, Michel: Nothing to Disclose
Kandziora, Frank: Nothing to Disclose
Kaneko, Yasuhito: Nothing to Disclose
Kang, Daniel G.: Nothing to Disclose
Kang, Ho: Nothing to Disclose
Kang, James D.: Nothing to Disclose
Kanim, Lea: Stock Ownership: MDT (<1%).
Kanter, Adam S.: Royalties: Lanx (F, Paid directly to institution/employer); Consulting: NuVasive (Amount not disclosed, Paid directly to institution/employer).
Kanzaki, Koji: Nothing to Disclose
Kao, Ting-Hsien: Nothing to Disclose
Kaplan, Leon: Consulting: Mazor (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (Travel expenses); Trips/Travel: Alphatec (B); Scientific Advisory Board: The European Spine Research Group (Board Member).
Kapoor, Mohit: Nothing to Disclose
Kapoor, Saurabh: Nothing to Disclose
Kapoor, Siddhant: Nothing to Disclose
Karadereler, Selhan: Nothing to Disclose
Karadimas, Spyridon K.: Nothing to Disclose
Karalok, IsiK: Nothing to Disclose
Karandikar, Mahesh L.: Nothing to Disclose
Karas, Chris: Consulting: Intellirod (B), Integra (B); Scientific Advisory Board: Intellirod (None).
Karavelioglu, Ergun: Nothing to Disclose
Karayannis, Nicholas: Nothing to Disclose
Karikari, Isaac O.: Nothing to Disclose
Karim, Muhammad Zia: Nothing to Disclose
Karkenny, Alexa: Nothing to Disclose

Karlen, Emily K.: Trips/Travel: North American Spine Society (B).

Karnes, Jonathan: Research Support - Staff and/or Materials: Amniox Medical (D, Paid directly to institution/employer).

Karol, Lori A.: Royalties: Elsevier Publishing (A); Board of Directors: Pediatric Society of North America (None).

Karppinen, Jaro: Stock Ownership: Orion Pharma (<1%); Consulting: Axsome Therapeutics (D); Speaking and/or Teaching Arrangements: MSD (B), Pfizer (B); Scientific Advisory Board: Axsome Therapeutics (B).

Kartzman, David: Nothing to Disclose

Kassin, Gabrielle: Nothing to Disclose

Kasukawa, Yuji: Nothing to Disclose

Kato, So: Nothing to Disclose

Katsuura, Yoshihiro: Nothing to Disclose

Katz, Bruce E.: Stock Ownership: Amedica (<1%); Relationships Outside the One-Year Requirement: Medtronic (Speaking and/or Teaching Arrangement, Dissolved 05/2004).

Katz, Danielle A.: Stock Ownership: Proctor & Gamble (<1%), Bristol-Myers Squibb (<1%), Eli Lilly (<1%), GlaxoSmithKline (<1%), Johnson & Johnson (<1%), Merck (<1%), Novartis (<1%), Roche (<1%), Sanofi-Aventis (<1%); Trips/Travel: AAOS (Travel expenses), American College of Surgeons (Travel expenses); Other Office: American College of Surgeons (Travel expenses), AAOS AUC (Travel expenses); Other: Johnson & Johnson (Amount not disclosed).

Kauffman, Christopher P.: Stock Ownership: NOC2 (<1%); Consulting: Hospital Corporation of America (HCA) (TriStar Spine Physician Advisory Panel), Amendia (B); Trips/Travel: SI-BONE (Travel expenses).

Kay, Harrison F.: Nothing to Disclose

Kaya, Emel: Nothing to Disclose

Kaya, Ozcan: Nothing to Disclose

Kaye, Ian: Nothing to Disclose

Kazakia, Galateia: Nothing to Disclose

Kazberouk, Alexander: Nothing to Disclose

Kazimov, Anar: Nothing to Disclose

Kebaish, Kareem J.: Nothing to Disclose

Kebaish, Khaled M.: Consulting: DePuy Spine (E); Speaking and/or Teaching Arrangements: K2M (C, Paid directly to institution/employer); Trips/Travel: Orthofix (C).

Keefe, Francis: Nothing to Disclose

Keefe, Francis J.: Nothing to Disclose

Keefe, Malla K.: Consulting: DePuy Synthes (B).

Keenen, Timothy L.: Consulting: DePuy Synthes (A); Trips/Travel: DePuy Synthes (A).

Kelkar, Amey: Nothing to Disclose

Kelly, Brian: Nothing to Disclose

Kelly, Michael P.: Fellowship Support: AOSpine (E, Paid directly to institution/employer).

Kennedy, D.J.: Speaking and/or Teaching Arrangements: Spine Intervention Society (A); Trips/Travel: AAPM&R (Travel expenses), Spine Intervention Society (A); Board of Directors: AAPM&R (Member at Large), Spine intervention Society (Member at Large), Association of Academic Physiatrists (Membership Committee Chair).

Kepler, Christopher K.: Research Support - Staff and/or Materials: CSRS (D, Paid directly to institution/employer); Grants: NIH (A, Paid directly to institution/employer).

Kerr, Eubulus J.: Royalties: GS Medical (B, Paid directly to institution/employer); Private Investments: Paradigm Spine (<1%); Consulting: GS Medical (A).

Kerrigan, D. Casey: Private Investments: JKM Technologies/OESH Shoes (50%); Research Support - Investigator Salary: National Science Foundation (C); Research Support - Staff and/or Materials: National Science Foundation (D); Grants: National Science Foundation (F).

Kerrigan, Jason: Nothing to Disclose

Kersten, Roel: Nothing to Disclose

Keynan, Ory: Stock Ownership: Expanding Orthopedics (<1%); Speaking and/or Teaching Arrangements: Alphatec Spine (B); Scientific Advisory Board: NewVert (None).

Khair, Thamina: Nothing to Disclose

Khajavi, Kaveh: Consulting: NuVasive (B); Trips/Travel: Georgia Spine & Neurosurgery Center (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Georgia Spine & Neurosurgery Center (B); Other: Kaveh Khajavi (Amount not disclosed, Paid directly to institution/employer).

Khajoo, Ashkan: Nothing to Disclose

Khalaf, Tagreed M.: Nothing to Disclose

Khaleel, Mohammed A.: Nothing to Disclose

Khalsa, Kevin: Nothing to Disclose

Khan, Adam Z.: Nothing to Disclose

Khan, Almas L.: Speaking and/or Teaching Arrangements: Stryker Spine (Travel expenses); Trips/Travel: Stryker (B).

Khan, Jamal: Nothing to Disclose

Khan, Mustafa H.: Nothing to Disclose

Khan, Safdar N.: Nothing to Disclose

Khan, Zafar S.: Nothing to Disclose

Khandehroo, Babak: Nothing to Disclose

Khanna, A. Jay: Royalties: Thieme Medical Publishers (B), Ortho Development (B); Private Investments: New Era Orthopaedics (15%), Cortical Concepts (16%), Avitus Orthopaedics (9%); Consulting: Orthofix Spine (C); Speaking and/or Teaching Arrangements: AOSpine North America (B); Trips/Travel: AOSpine North America (A); Scientific Advisory Board: Orthofix Spine (B); Other Office: Johns Hopkins Center for Bioengineering, Innovation and Design (Advisory Board); Grants: Siemens Healthcare (B, Paid directly to institution/employer).

Khanna, Nitin: Royalties: NuVasive (C); Speaking and/or Teaching Arrangements: NuVasive (B); Trips/Travel: NuVasive (A).

Khanna, Ryan: Nothing to Disclose

Khashan, Morsi: Nothing to Disclose

Khatrri, Manoj: Nothing to Disclose

Khayatzadeh, Saeed: Nothing to Disclose

Khor, Sara: Nothing to Disclose

Khorsand, Derek: Nothing to Disclose

Khounganian, Greg S.: Stock Ownership: Prosidyan, Alphatec (<1%).

Kiapour, Ali: Nothing to Disclose

Kiely, Paul: Nothing to Disclose

Kiely, Paul D.: Nothing to Disclose

Kienle, Annette: Research Support - Staff and/or Materials: Titan Spine (B).

Kilimnik, German: Nothing to Disclose

Kilincer, Cumhur: Nothing to Disclose

Kilmer, Scott E.: Nothing to Disclose

Kim, Byeongwoo: Nothing to Disclose

Kim, Chi Heon: Consulting: Richard Wolf GmbH (Travel expenses).

Kim, Choll W.: Royalties: Globus (C); Stock Ownership: SpineView (<1%); Consulting: Biomet (Amount not disclosed), Globus (Amount not disclosed), K2M (Amount not disclosed), Joimax (Amount not disclosed); Speaking and/or Teaching Arrangements: Globus (Amount not disclosed); Trips/Travel: Globus (Travel expenses); Board of Directors: Globus (Medical Board of Directors); Research Support - Staff and/or Materials: Globus (E).

Kim, Chulmin: Nothing to Disclose

Kim, David H.: Scientific Advisory Board: New England Baptist Hospital (None), Bioventus (B); Other Office: Intrinsic Therapeutics (B); Research Support - Staff and/or Materials: New England Baptist Hospital (D).

Kim, Dong Hwa: Nothing to Disclose

Kim, Elliott: Nothing to Disclose

Kim, Han Jo: Royalties: Zimmer Biomet (A); Consulting: K2M (C), Zimmer Biomet (C).

Kim, Hyunchul: Nothing to Disclose

Kim, Jin-Sung: Nothing to Disclose

Kim, JiYong: Nothing to Disclose

Kim, Joanne: Nothing to Disclose

Kim, John: Nothing to Disclose

Kim, Joung Heon: Nothing to Disclose

Kim, Jun: Nothing to Disclose

Kim, Kee D.: Royalties: LDR (D), Globus (B), Spinal USA (D); Stock Ownership: Molecular Matrix (<1%); Consulting: Globus (B); Speaking and/or Teaching Arrangements: Zimmer Biomet (B); Board of Directors: Molecular Matrix (Stock options); Scientific Advisory Board: InVivo Therapeutics (B); Research Support - Staff and/or Materials: Globus (C, Paid directly to institution/employer).

Kim, Miri: Nothing to Disclose

Kim, Nack Hwan: Nothing to Disclose

Kim, Philip S.: Consulting: Medtronic (B); Speaking and/or Teaching Arrangements: Jazz Pharmaceuticals (C).

Kim, Sangbum: Nothing to Disclose

Kim, Sohee: Nothing to Disclose

Kim, Soo Yeon: Nothing to Disclose

Kim, Soo-Beom: Nothing to Disclose

Kim, Steven: Research Support - Staff and/or Materials: Nevada Orthopedic & Spine Center (A).

Kim, Sung Hoon: Nothing to Disclose

Kim, Sung-Kyu: Nothing to Disclose

Kim, Sung-Min: Nothing to Disclose

Kim, Terrence T.: Consulting: Synthes DePuy (Amount not disclosed); Grants: Medtronic (D).

Kim, Whoan Jeang: Nothing to Disclose

Kim, Yong H.: Royalties: Biomet (D); Consulting: Biomet (B); Speaking and/or Teaching Arrangements: Biomet (B).

Kim, Yong-Chan: Nothing to Disclose

Kim, Yong-Jin: Nothing to Disclose

Kim, Yoonvin: Nothing to Disclose

Kimball, Jeff: Nothing to Disclose

King, Andrew G.: Stock Ownership: Nocimed (<1%); Consulting: Medicea USA (D), Pediguard (B).

King, Jeffrey A.: Nothing to Disclose

Kinne, Nolan: Nothing to Disclose

Kinon, Merritt: Trips/Travel: Globus (A), LDR (A); Fellowship Support: NREF (D, Paid directly to institution/employer), K2M Spinal Instrumentation (D, Paid directly to institution/employer).

Kishan, Shyam: Royalties: Globus Medical (B).

Klassen, Peter D.: Consulting: Intrinsic Therapeutics (D); Research Support - Staff and/or Materials: Intrinsic Therapeutics (D, Paid directly to institution/employer).

Kleck, Christopher: Research Support - Staff and/or Materials: Medtronic Sofamor-Danek (C, Paid directly to institution/employer), Integra LifeSciences Corporation (D, Paid directly to institution/employer), Orthofix (D, Paid directly to institution/employer), Aesculap (E, Paid directly to institution/employer), SI-BONE (B, Paid directly to institution/employer), VertiFlex (D, Paid directly to institution/employer), Medicea (D, Paid directly to institution/employer); Fellowship Support: OMeGA (C, Paid directly to institution/employer).

Kleeman, Lindsay: Nothing to Disclose

Klein, Michael R.: Nothing to Disclose

Kleinstuck, Frank: Nothing to Disclose

Klement, Mitchell: Nothing to Disclose

Klineberg, Eric O.: Consulting: DePuy (C, Paid directly to institution/employer), Stryker (C, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: K2M (C, Paid directly to institution/employer), AOSpine (C, Paid directly to institution/employer); Grants: T32 (C, Paid directly to institution/employer); Fellowship Support: AOSpine (E, Paid directly to institution/employer).

Klocke, Noelle: Stock Ownership: Globus Medical (<1%); Other Office: Globus Medical (Salary).

Knabe, Jeffrey: Nothing to Disclose

Knight, Reginald Q.: Stock Ownership: VTI (<1%); Consulting: Stryker (C); Speaking and/or Teaching Arrangements: Stryker Spine (Consulting disclosed); Scientific Advisory Board: Spine Universe (None), Vertera (None), Gerstner Medical (Amount not disclosed).

Knightly, John J.: Nothing to Disclose

Knott, Patrick: Consulting: SSTSG (None); Trips/Travel: DIERS Medical Systems (None); Board of Directors: SSTSG (Board Membership); Scientific Advisory Board: DIERS Medical Systems (Advisory Board).

Ko, Jong-Hyun: Nothing to Disclose

Kobayashi, Takashi: Nothing to Disclose

Kodigudla, Manoj: Nothing to Disclose

Koerner, John D.: Research Support - Staff and/or Materials: Medtronic (D, Paid directly to institution/employer); Other: Novartis (None), Patent Application (None).

Koester, Linda: Nothing to Disclose

Koh Kiok Miang, Roy: Nothing to Disclose

Koh, Eugene Y.: Consulting: Biomet (Amount not disclosed).

Konbaz, Faisal M.: Nothing to Disclose

Kondrashov, Dimitriy G.: Consulting: SpineArt (C); Trips/Travel: SI-BONE (C), SI-BONE (B).

Kondrashov, Irina: Nothing to Disclose

Kong, Christopher: Trips/Travel: DePuy Synthes (A), NuVasive (A).

Kong, Lingbo: Nothing to Disclose

Kong, Seong Ju: Nothing to Disclose

Konya, Deniz: Nothing to Disclose

Kopjar, Branko: Consulting: Smith and Nephew (F), Cerapedics (C), Amendia (B), BAROnova (B), Hip Innovation Technologies (D), Innovative Surgical Designs (D), Cerapedics (G).

Korab-Karpinski, Marek: Nothing to Disclose

Korovessis, Panagiotis G.: Nothing to Disclose

Koruprolu, Sarath: Nothing to Disclose

Koski, Tyler R.: Royalties: NuVasive (F); Stock Ownership: NuVasive (8000 Shares); Consulting: NuVasive (B), MB innovations / Spine Wave (None), Medtronic (B); Speaking and/or Teaching Arrangements: Medtronic (Consulting disclosed); Trips/Travel: Medtronic (B), NuVasive (A); Scientific Advisory Board: SpineCME (None); Research Support - Staff and/or Materials: Medtronic (B, Paid directly to institution/employer); Grants: Medtronic (C, Paid directly to institution/employer).

Kostiuk, Ted: Nothing to Disclose

Kostuik, John P.: Stock Ownership: K2M (5%); Board of Directors: K2M (Salary).

Kothari, Parth: Nothing to Disclose

Kotsias, Andreas: Nothing to Disclose

Kotter, Mark: Nothing to Disclose

Kotwicki, Tomasz: Nothing to Disclose

Koutsoumbelis, Stelios A.: Nothing to Disclose

Kowalski, Piotr: Stock Ownership: Globus Medical Inc. (<1%); Other Office: Globus Medical (Amount not disclosed).

Kraemer, Paul E.: Royalties: Globus Medical (B); Private Investments: DiFusion (<1%); Consulting: Medtronic (B), K2M (B); Speaking and/or Teaching Arrangements: Medtronic (B), DePuy Synthes (B); Scientific Advisory Board: DiFusion (Amount not disclosed).

Kraft, Susan: Nothing to Disclose

Kreiner, Scott: Stock Ownership: LDR Holdings (<1%); Speaking and/or Teaching Arrangements: North American Spine Society (Travel expenses); Trips/Travel: ISIS (Travel expenses).

Kreitz, Tyler: Nothing to Disclose

Krieg, Sandro: Nothing to Disclose

Krinock, Mark J.: Stock Ownership: Stryker (<1%); Consulting: K2M (Travel expenses, Paid directly to institution/employer); Scientific Advisory Board: K2M (Travel expenses); Research Support - Staff and/or Materials: K2M (A, Paid directly to institution/employer).

Krishnan, Venkatesh: Nothing to Disclose

Krishnaney, Ajit A.: Nothing to Disclose

Krug, Roland: Research Support - Investigator Salary: General Electrics (B, Paid directly to institution/employer).

Kruse, Erica E.: Nothing to Disclose

Kryshtalskyj, Michael T.: Nothing to Disclose

Kshetry, Varun: Nothing to Disclose

Kube, Richard A.: Research Support - Staff and/or Materials: Zyga Technologies (C, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Stryker (Grant, Dissolved 12/2009, B).

Kucharzyk, Donald: Royalties: Precision Spine (C); Consulting: Benvenue Medical (A), Biomet Zimmer (A), Precision Spine (A); Speaking and/or Teaching Arrangements: Precision Spine (A), Benvenue Medical (A), Biomet Zimmer (A); Trips/Travel: Precision Spine (B), Biomet Zimmer (B), Benvenue Medical (A); Scientific Advisory Board: Precision Spine (B); Research Support - Investigator Salary: Benvenue Medical (A).

Kuchibhatla, Maragatha: Nothing to Disclose

Kudo, Daisuke: Nothing to Disclose

Kueper, Janina: Nothing to Disclose

Kuivila, Thomas E.: Nothing to Disclose

Kukal, Deborah: Nothing to Disclose

Kuliwaba, Julia: Nothing to Disclose

Kumamoto, Shinji: Nothing to Disclose

Kumar, Priyanka: Nothing to Disclose

Kume, Kensuke: Nothing to Disclose
 Kump, Jordan: Nothing to Disclose
 Kunkle, William: Nothing to Disclose
 Kunwar, Sandeep: Royalties: NuVasive (C); Stock Ownership: Benvenue (<1%); Consulting: Benvenue (Amount not disclosed), Biomet (Amount not disclosed); Speaking and/or Teaching Arrangements: Biomet (Amount not disclosed).
 Kuo, Calvin: Nothing to Disclose
 Kuo, Yong-Fang: Nothing to Disclose
 Kurd, Mark F.: Speaking and/or Teaching Arrangements: Stryker Spine (B).
 Kurra, Swamy: Nothing to Disclose
 Kursumovic, Adisa: Speaking and/or Teaching Arrangements: Intrinsic Therapeutics (C); Trips/Travel: Intrinsic Therapeutics (B).
 Kurtom, Khalid H.: Nothing to Disclose
 Kurtz, Steven M.: Royalties: Elsevier (B); Stock Ownership: Exponent (Amount not disclosed); Consulting: Exponent (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Exponent (Amount not disclosed, Paid directly to institution/employer); Trips/Travel: Exponent (Amount not disclosed, Paid directly to institution/employer).
 Kurz, Jennifer L.: Nothing to Disclose
 Kusin, David: Nothing to Disclose
 Kusuma, Srinivasu: Nothing to Disclose
 Kusuyama, Kazuki: Nothing to Disclose
 Kwak, Dai-Soon: Nothing to Disclose
 Kwok, Desmond: Nothing to Disclose
 Kwon, Brian: Stock Ownership: Zimmer-ETEX (<1%); Consulting: Medtronic (C), Implanet (C); Speaking and/or Teaching Arrangements: Medtronic (C); Trips/Travel: Implanet (B), Medtronic (A).
 Kwon, Brian K.: Scientific Advisory Board: Acorda Therapeutics (C); Fellowship Support: Medtronic (D, Paid directly to institution/employer), AOSpine (D, Paid directly to institution/employer).
 Kwon, Tae-Young: Nothing to Disclose
 Kwon, Young-Joon: Nothing to Disclose
 La, Brandan: Nothing to Disclose
 Labelle, Hubert: Stock Ownership: Spinologics Inc. (30%); Trips/Travel: Spinologics (B); Board of Directors: Scoliosis Research Society (A); Research Support - Staff and/or Materials: DePuy (D, Paid directly to institution/employer); Fellowship Support: DePuy (D, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Medtronic Sofamor Danek (Research Support: Staff and/or Materials, Dissolved 03/2009, D).
 Ladner, Travis: Nothing to Disclose
 Lafage, Renaud: Nothing to Disclose
 Lafage, Virginie: Stock Ownership: Nemaris (20%); Speaking and/or Teaching Arrangements: DePuy Synthes (D), Medtronic (B), NuVasive (B); Board of Directors: Nemaris (None); Other Office: International Spine Study Group (Executive Committee).
 Lagerbäck, Tobias: Nothing to Disclose
 Lahey, Donna M.: Speaking and/or Teaching Arrangements: North American Spine Society (B, Paid directly to institution/employer); Trips/Travel: North American Spine Society (B, Paid directly to institution/employer).
 Lai, Ming: Nothing to Disclose
 Lakomkin, Nikita: Nothing to Disclose
 Lakshmanan, Palaniappan: Nothing to Disclose
 Laliberte, Alex: Nothing to Disclose

Lalor, Peggy: Stock Ownership: 4-Webb Spine (<1%); Other: SI-BONE (Amount not disclosed).

Lam, Cyrena: Nothing to Disclose

LaMarca, Frank: Royalties: Globus (B), Stryker (B); Private Investments: TRS (5%); Consulting: Globus (D), Lanx (None), Biomet (B); Board of Directors: TRS (None); Scientific Advisory Board: TRS (None); Other Office: AANS/CNS Spine section (Executive Board); Grants: Globus (A, Paid directly to institution/employer); Fellowship Support: NREF (E, Paid directly to institution/employer).

Lambert, Maude: Nothing to Disclose

Lamer, Tim: Board of Directors: American Academy of Pain Medicine (None); Research Support - Staff and/or Materials: Boston Scientific (D, Paid directly to institution/employer), Medtronic (A, Paid directly to institution/employer).

Lammers, Susan: Nothing to Disclose

Lampe, Lukas P.: Nothing to Disclose

Lamsam, Layton: Nothing to Disclose

Landon, Bruce: Nothing to Disclose

Lane, Joseph M.: Stock Ownership: CollPlant (<1%, Paid directly to institution/employer); Consulting: Graftys (B, Paid directly to institution/employer); Scientific Advisory Board: Bone Therapeutics, SA (B, Paid directly to institution/employer), Graftys (B, Paid directly to institution/employer), Royal Consulting (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Merck (C, Paid directly to institution/employer); Grants: NIH (C, Research Assistant).

Janman, Todd H.: Device or Biologic Distributorship (Physician-Owned Distributorship): Medtronic (B); Consulting: Medtronic (A); Speaking and/or Teaching Arrangements: Medtronic (B).

Lapinsky, Anthony S.: Nothing to Disclose

Lara, Nina: Nothing to Disclose

Larouche, Jeremie: Nothing to Disclose

Larrieu, Daniel: Nothing to Disclose

Larsen, Ryan: Nothing to Disclose

Larson, Annalise N.: Nothing to Disclose

Larson, Nyle: Nothing to Disclose

Latta, Loren: Consulting: Acuitive Technologies (Amount not disclosed).

Lau, Darryl: Nothing to Disclose

Lau, Edmund: Consulting: Paradigm Spine (Amount not disclosed, Paid directly to institution/employer), Stryker Orthopedics (Amount not disclosed), Boston Scientific (Amount not disclosed), Medtronic (Amount not disclosed); Grants: Medtronic (D, Paid directly to institution/employer), Boston Scientific (E, Paid directly to institution/employer).

Laufer, Ilya: Consulting: Spine Wave (B), DePuy/Synthes (B).

Laurysen, Carl: Royalties: DePuy Spine (B, Paid directly to institution/employer), Amedica (B, Paid directly to institution/employer); Stock Ownership: Spinal Kinetics (Amount not disclosed), Amedica (Amount not disclosed), Replication Medical (Amount not disclosed), Spinal Elements (Amount not disclosed), Baxano (Amount not disclosed), Pioneer (Amount not disclosed), Alphatec (Amount not disclosed); Consulting: Pioneer (B, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer), Biomet (B, Paid directly to institution/employer), Baxano (B, Paid directly to institution/employer), Alphatec (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Spinal Kinetics (A); Board of Directors: Baxano (B); Scientific Advisory Board: Replication Medical (B); Relationships Outside the One-Year Requirement: DePuy Spine (Royalties, Dissolved 01/2001, B).

Lavelle, William F.: Speaking and/or Teaching Arrangements: Stryker (A); Other Office: SAS (Governing Board); Grants: Covidien (B, Paid directly to institution/employer), Medtronic (D, Paid directly to

institution/employer), DePuy, A Johnson & Johnson (C, Paid directly to institution/employer), Vertebral Technologies (E, Paid directly to institution/employer).

Lawrence, Brandon D.: Speaking and/or Teaching Arrangements: AOSpine North America (A); Grants: Lumbar Spine Research Society (C, Paid directly to institution/employer); Fellowship Support: AOSpine North America (E, Paid directly to institution/employer).

Le, Elizabeth: Nothing to Disclose

Le, Gloribel: Nothing to Disclose

Le, Hai: Nothing to Disclose

Le, Phuong: Nothing to Disclose

Le, Vu H.: Nothing to Disclose

Leary, Scott: Royalties: Aesculap Spine (B); Private Investments: Paradigm Spine (<1%); Consulting: Medacta Spine (B); Speaking and/or Teaching Arrangements: Paradigm Spine (A); Trips/Travel: Medacta Spine (A).

Leas, Daniel: Nothing to Disclose

Leasure, Jeremi M.: Royalties: SpineArt (B); Stock Ownership: Neptune (<1%); Consulting: Spinal Simplicity (Amount not disclosed, Paid directly to institution/employer), New Era Orthopaedics (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: SF Orthopedic Residency Program (Amount not disclosed, Paid directly to institution/employer); Trips/Travel: ConforMIS (Amount not disclosed, Paid directly to institution/employer); Grants: Medtronic (B, Paid directly to institution/employer), DePuy Synthes (B, Paid directly to institution/employer), ConforMIS (B, Paid directly to institution/employer), Biomet (B, Paid directly to institution/employer).

Lebel, David: Nothing to Disclose

Lebl, Darren R.: Speaking and/or Teaching Arrangements: Medtronic (B); Scientific Advisory Board: K2M MIS Advisory Team (B).

Leblang, Spencer: Nothing to Disclose

Lebwohl, Nathan H.: Royalties: DePuy Spine (D); Consulting: DePuy Spine (A); Speaking and/or Teaching Arrangements: DePuy (B); Trips/Travel: DePuy (A).

Ledesma, Justin: Nothing to Disclose

Ledet, Eric H.: Private Investments: ReVivo Medical (24%), I/O Surgical (25%), inSense Medical (30%); Consulting: Intrinsic Therapeutics (B); Other Office: ReVivo Medical (None), inSense Medical (None); Grants: Musculoskeletal Transplant Foundation (E, Paid directly to institution/employer), NIH (F, Paid directly to institution/employer).

Ledonio, Charles Gerald T.: Consulting: Greatbatch (B); Research Support - Investigator Salary: Medtronic (C, Paid directly to institution/employer), DOD (C, Paid directly to institution/employer), OREF (C, Paid directly to institution/employer), Chest Wall and Spine Deformity Foundation (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: SRS (D, Paid directly to institution/employer).

Lee, Alexandra A.: Nothing to Disclose

Lee, Andrew: Nothing to Disclose

Lee, Andrew: Nothing to Disclose

Lee, Andy: Nothing to Disclose

Lee, Daniel: Speaking and/or Teaching Arrangements: Zimmer (D), LDR (C), RTI (B); Trips/Travel: Zimmer (B), LDR (B).

Lee, Han-Dong: Nothing to Disclose

Lee, Hojin: Nothing to Disclose

Lee, Hye Yeong: Nothing to Disclose

Lee, Ian: Consulting: Monteris (A); Speaking and/or Teaching Arrangements: Varian (B); Trips/Travel: Varian (B).

Lee, Joon Y.: Nothing to Disclose

Lee, June Ho: Nothing to Disclose

Lee, Jung-Hee: Nothing to Disclose

Lee, Junki: Nothing to Disclose

Lee, Nathan J.: Nothing to Disclose

Lee, Po-Chih: Nothing to Disclose

Lee, Sang-Heon: Royalties: U&I (C); Consulting: U&I (None); Scientific Advisory Board: U&I (None).

Lee, Sang-Hun: Speaking and/or Teaching Arrangements: Medtronic (B); Scientific Advisory Board: CSRS AP (Fellowship/Prize Committee).

Lee, Seung H.: Nothing to Disclose

Lee, Sungsoo S.: Nothing to Disclose

Lee, Thay: Consulting: ConMed (B); Board of Directors: JSES (B).

Lee, Yu-Po: Consulting: DePuy (D).

Lee, Zach: Nothing to Disclose

Lehman, Rebecca: Nothing to Disclose

Lehman, Ronald A.: Consulting: Medtronic (B); Speaking and/or Teaching Arrangements: Medtronic (D), DePuy (C), Stryker (C); Grants: Department of Defense (DOD) (I, Paid directly to institution/employer), Defense Medical Research Development Program (DMRDP) (H, Paid directly to institution/employer).

Lehmberg, Jens: Nothing to Disclose

Lehrman, Jennifer: Nothing to Disclose

Leizman, Daniel J.: Grants: Medtronic (E, Paid directly to institution/employer).

Lemaster, Chelsey: Nothing to Disclose

Lemons, Alexander C.: Nothing to Disclose

Lenke, Lawrence G.: Royalties: Medtronic (I), Quality Medical Publishing (B); Consulting: Medtronic (E), DePuy Synthes Spine (C), K2M (C); Speaking and/or Teaching Arrangements: DePuy Synthes Spine (C), K2M (C); Trips/Travel: BroadWater (B), Scoliosis Research Society (B), Seattle Science Foundation (B), Stryker Spine (A), Medtronic (B), AOSpine (B); Endowments: Golden Endowed Professorship (F, Paid directly to institution/employer); Research Support - Staff and/or Materials: Fox Family Foundation (G, Paid directly to institution/employer), AOSpine/SRS (B, Paid directly to institution/employer); Grants: Axial-Biotech (A, Paid directly to institution/employer); Fellowship Support: AOSpine North America (C, Paid directly to institution/employer), OREF (D, Paid directly to institution/employer).

Leonard, Dana A.: Nothing to Disclose

Lerner, Alec: Nothing to Disclose

Lerner, Jason H.: Other Office: DePuy Synthes Spine (Amount not disclosed).

Levangie, Pamela: Nothing to Disclose

Leven, Dante M.: Nothing to Disclose

Levin, Jay M.: Nothing to Disclose

Levine, Steven E.: Nothing to Disclose

Levy, Roni: Nothing to Disclose

Levy-Golan, Eli: Nothing to Disclose

Lewis, Caitlin: Nothing to Disclose

Lewis, Chad: Stock Ownership: Amedica (<1%, Paid directly to institution/employer); Other Office: Employment (Amount not disclosed).

Lewis, Stephen J.: Private Investments: Thompson Medical (5%); Consulting: Medtronic (D); Speaking and/or Teaching Arrangements: Stryker (D); Trips/Travel: AOSpine (B); Scientific Advisory Board: Augmedix (Amount not disclosed); Fellowship Support: Medtronic DePuy Spine (D, Paid directly to institution/employer).

L'Heureux, E. Alexander: Nothing to Disclose

Li, Amy: Nothing to Disclose

Li, David: Nothing to Disclose

Li, Gordon: Consulting: Medtronic (B).

Li, Guoan: Royalties: Stryker/Mako (G, Paid directly to institution/employer); Research Support - Staff and/or Materials: K2M (E, Paid directly to institution/employer).

Li, Guoan: Nothing to Disclose

Li, Jesse: Nothing to Disclose

Li, Jing-Sheng: Nothing to Disclose

Li, Mo: Nothing to Disclose

Li, Qianyi: Research Support - Staff and/or Materials: Benvenue Medical (B, Paid directly to institution/employer).

Li, Tao: Nothing to Disclose

Li, Xiang: Nothing to Disclose

Li, Xudong J.: Nothing to Disclose

Li, Xueshi: Nothing to Disclose

Li, Yumeng: Nothing to Disclose

Li, Zhen: Nothing to Disclose

Li, Zihui: Nothing to Disclose

Liabaud, Barthelemy: Nothing to Disclose

Liao, Jen-Chung: Nothing to Disclose

Liau, Jason: Nothing to Disclose

Liberati, Chiara: Nothing to Disclose

Licciardone, John: Nothing to Disclose

Lidar, Zvi M.: Nothing to Disclose

Lieberman, Isador H.: Stock Ownership: Mazor Robotics (<1%); Private Investments: Bionik Laboratories (<1%); Consulting: Mazor Surgical (D), Globus Spine (B), Misonix (B), Stryker Spine (B); Speaking and/or Teaching Arrangements: Johnson & Johnson Synthes (B); Scientific Advisory Board: Stryker (B).

Liem, Leon K.: Nothing to Disclose

Lima, Rogerio L.: Nothing to Disclose

Limthongkul, Worawat: Nothing to Disclose

Lin, Abraham Tien-Jen: Nothing to Disclose

Lin, Angela: Nothing to Disclose

Lin, Cheng-Feng: Nothing to Disclose

Lin, Cheng-Li: Nothing to Disclose

Lin, Clifford: Nothing to Disclose

Lin, JiannHer: Nothing to Disclose

Lin, Sheldon: Private Investments: CreOsso (28%); Consulting: BMTI of Wright (Amount not disclosed); Speaking and/or Teaching Arrangements: BMTI of Wright (Amount not disclosed); Board of Directors: CreOsso (Amount not disclosed); Scientific Advisory Board: DJ Ortho (C), BMTI of Wright (C), TissueGene (C); Other Office: Foot Ankle (Amount not disclosed).

Lina, Ioan: Nothing to Disclose

Lincoln, Todd: Nothing to Disclose

Lindley, James G.: Royalties: Globus Medical (C); Scientific Advisory Board: Globus Medical (None).
Lindsey, Derek P.: Stock Ownership: SI-BONE (<1%); Other Office: SI-BONE (Amount not disclosed).
Lindsey, Ronald W.: Nothing to Disclose
Line, Breton: Consulting: International Spine Study Group Foundation (E).
Linnman, Clas: Nothing to Disclose
Linovitz, Raymond J.: Speaking and/or Teaching Arrangements: Orthovita (A); Scientific Advisory Board: Orthofix (A); Other Office: Orthofix (A).
Lioret, Eric: Nothing to Disclose
Liow, Ming Han Lincoln: Nothing to Disclose
Lipson, Adam C.: Stock Ownership: Acadia Pharmaceuticals (2000000 Shares); Private Investments: Bionik Laboratories (2.5%), Sapience Therapeutics (<1%), X4 Pharmaceuticals (1.5%); Consulting: Stryker (C); Speaking and/or Teaching Arrangements: Bioventus (Amount not disclosed), Centinel Spine (C); Other: Gerson Lehrman Group (C), FundRx (Scientific Advisor).
Lis, Angela: Nothing to Disclose
Lisi, Anthony J.: Nothing to Disclose
Litrico, Stephane: Consulting: LDR Spine (B), Medtronic (B), Safe Orthopedics (B); Speaking and/or Teaching Arrangements: LDR Spine (B); Trips/Travel: LDR Spine (B); Scientific Advisory Board: Medtronic (B).
Little, Kenneth M.: Private Investments: aiHealth (55%); Consulting: HealthTrust (A); Speaking and/or Teaching Arrangements: HealthTrust (None); Trips/Travel: HealthTrust (A); Board of Directors: aiHealth (None); Scientific Advisory Board: HealthTrust (None).
Liu, David: Nothing to Disclose
Liu, Fei: Nothing to Disclose
Liu, Jiayong: Nothing to Disclose
Liu, Jonathan J.: Nothing to Disclose
Liu, Ning: Nothing to Disclose
Liu, Steven: Nothing to Disclose
Liu, Tie: Nothing to Disclose
Liu, Weijun: Nothing to Disclose
Liu, Xiaochen: Nothing to Disclose
Liu, Xingyong: Nothing to Disclose
Liu, Zhan: Nothing to Disclose
Liu, Zhongjun: Nothing to Disclose
Liu, Zhongkai: Nothing to Disclose
Liu, Zhou: Nothing to Disclose
Lo, Sheng-fu L.: Nothing to Disclose
Lo, Yungtai: Nothing to Disclose
Lockstadt, Harry: Consulting: SI-BONE (B); Speaking and/or Teaching Arrangements: SI-BONE (B); Research Support - Staff and/or Materials: SI-BONE (E, Paid directly to institution/employer).
Long, William D.: Nothing to Disclose
Long, William W.: Nothing to Disclose
Lønne, Greger: Nothing to Disclose
Lonner, Baron S.: Royalties: DePuy Synthes (G); Stock Ownership: Spine Search (<1%), Paradigm Spine (9272 Shares); Private Investments: Paradigm Spine (E); Consulting: DePuy Synthes (D); Speaking and/or Teaching Arrangements: DePuy Synthes (C), K2M (C); Board of Directors: Spine Search (None); Scientific Advisory Board: DePuy Synthes (None); Other Office: SRS Spine Deformity Journal (Editorial Board); Grants: DePuy Synthes (D), AOSpine (D), John and Marcella Fox Fund (B), OREF (C).
Looney, Austin M.: Nothing to Disclose

Lopez, Gregory: Nothing to Disclose

Lord, Elizabeth L.: Nothing to Disclose

Lorenz, Mark A.: Royalties: Orthofix (B).

Loret, Jean-Edouard: Consulting: SpineArt (B); Trips/Travel: DePuy Synthes, Medicea (B).

Lorio, Morgan P.: Royalties: Alphatec (B, Paid directly to institution/employer), Alphatec (A); Stock Ownership: Surgitech (None), OrthogenRx (5000 Shares), Chart (0 Shares); Private Investments: Surgitech (None), Transformer Spine (100%); Consulting: Ortho Kinematics (E, Paid directly to institution/employer), Alphatec (A), LANX (A, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: ETSU (Assistant Clinical Professor), Lincoln Memorial University (Adjunct Clinical Professor), South College in Knoxville (Adjunct Clinical Professor); Trips/Travel: Alphatec (B, Paid directly to institution/employer), LANX (B, Paid directly to institution/employer), ISASS (Amount not disclosed), CareFusion (Amount not disclosed); Scientific Advisory Board: LANX (A, Paid directly to institution/employer), Ortho Kinematics (E, Paid directly to institution/employer); Other Office: AMA CPT Advisor (CPT Editorial Panel); Endowments: LANX (A, Paid directly to institution/employer), Alphatec (B, Paid directly to institution/employer); Research Support - Investigator Salary: Exactech (A, Paid directly to institution/employer), Acadia Facet (C), Pioneer Surgical (B, Paid directly to institution/employer), Alphatec (A, Paid directly to institution/employer).

Lotz, Jeffrey C.: Royalties: University of California (B); Stock Ownership: ISTO Technologies (<1%), Relievant Med Systems (<1%), Nocimed (9%), Simpirica (<1%), Aleeva Medical (<1%), SMC Biotech (<1%); Private Investments: Nocimed (<1%); Consulting: Applied Biomechanics (Amount not disclosed); Scientific Advisory Board: Relievant (Amount not disclosed), SMC Biotech (Amount not disclosed); Research Support - Investigator Salary: Orthofix (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Orthofix (E, Paid directly to institution/employer); Grants: Orthofix (E, Paid directly to institution/employer).

Loughenbury, Peter R.: Nothing to Disclose

Louie, Philip: Nothing to Disclose

Lovald, Scott: Other: Pacira (Amount not disclosed, Paid directly to institution/employer).

Lovric, Vedran: Nothing to Disclose

Lu, Q Richard: Nothing to Disclose

Lu, Yi: Nothing to Disclose

Lu, Young: Nothing to Disclose

Lubelski, Daniel: Nothing to Disclose

Ludwig, Steven C.: Royalties: DePuy Synthes Spine (G); Stock Ownership: ISD (4%), In-Sight Medical (18%); Private Investments: Advanced Spinal Intellectual Properties (29%); Consulting: DePuy Spine (D); Speaking and/or Teaching Arrangements: AOSpine (B); Board of Directors: Advanced Spinal Intellectual Properties (D); Scientific Advisory Board: Globus Medical (B); Fellowship Support: OREF Grant (E, Paid directly to institution/employer).

Lui, Melissa: Stock Ownership: Simplify Medical (<1%); Other Office: Simplify Medical (Amount not disclosed).

Luk, Keith D.: Nothing to Disclose

Lukasiewicz, Adam M.: Nothing to Disclose

Lukens, Scott: Nothing to Disclose

Luksanaprukha, Panya: Nothing to Disclose

Luna, Ingrid: Stock Ownership: Globus Medical (<1%).

Lunardini, David: Nothing to Disclose

Luo, Zhuojing: Nothing to Disclose

Luo, Zong Ping: Nothing to Disclose

Lurie, Jon D.: Stock Ownership: NewVert (<1%); Consulting: Foundation for Informed Medical Decision Making (None), FzioMed (None), NewVert (None).

Luzzati, Alessandro: Nothing to Disclose

Lv, Yang: Nothing to Disclose

Ly, Tan D.: Consulting: Alphatec (B); Speaking and/or Teaching Arrangements: Alphatec (B).

Lyman, Kade: Nothing to Disclose

Lyman, Stephen: Nothing to Disclose

Lyons, Jon: Other Office: Providence Medical Technology (F).

Mac Millan, Michael: Stock Ownership: Xcentric Technologies (Amount not disclosed); Consulting: Exactech (B), Spineology (B).

MacBarb, Regina: Stock Ownership: SI-BONE (<1%).

MacEwan, Matthew: Royalties: Acera Surgical (A); Stock Ownership: Acera Surgical (25%).

Machado, Andre: Device or Biologic Distributorship (Physician-Owned Distributorship): Enspire (A); Stock Ownership: Enspire (None); Consulting: ATI (None); Research Support - Investigator Salary: NIH (A, Paid directly to institution/employer); Grants: Cardionomic (A, Paid directly to institution/employer); Fellowship Support: Medtronic (D, Paid directly to institution/employer).

Machan, Jason: Consulting: 3PrimeDx (A), Cord Blood (B).

Mackel, Charles: Nothing to Disclose

Macki, Mohamed: Nothing to Disclose

MacLean, Ian: Nothing to Disclose

MacLean, Mark: Nothing to Disclose

Mac-Thiong, Jean-Marc: Stock Ownership: Spinologics (30%); Private Investments: Spinologics (30%); Consulting: K2M (Amount not disclosed, Paid directly to institution/employer), EOS Imaging (Amount not disclosed), DePuy-Synthes (Amount not disclosed, Paid directly to institution/employer), Zimmer (Amount not disclosed, Paid directly to institution/employer); Board of Directors: Spinologics (30%); Scientific Advisory Board: Spinologics (30%); Other Office: Spinologics (30%); Endowments: Medtronic (D, Paid directly to institution/employer); Research Support - Investigator Salary: Fonds de Recherche du Québec - Santé (D); Grants: Scoliosis Research Society (C, Paid directly to institution/employer), Department of the Army – United States Army Medical Research Acquisition Activity (E, Paid directly to institution/employer), Fonds de Recherche du Québec – Nature et technologies (E, Paid directly to institution/employer), Canadian Foundation for Innovation (E, Paid directly to institution/employer), Canadian Institutes of Health Research (E, Paid directly to institution/employer), Fondation de Recherche et d'Éducation en Orthopédie de Montréal (FRÉOM) (B, Paid directly to institution/employer), Natural Sciences and Engineering Research Council of Canada (C, Paid directly to institution/employer); Fellowship Support: Medtronic Canada (D, Paid directly to institution/employer).

Macyszyn, Luke: Nothing to Disclose

Madden, Michael: Nothing to Disclose

Madera, Marcella A.: Nothing to Disclose

Madhavan, Karthik: Nothing to Disclose

Madom, Ian A.: Speaking and/or Teaching Arrangements: Stryker Spine (D); Research Support - Staff and/or Materials: DePuy Spine (D), Stryker Spine (D).

Maghous, Abdelhak: Nothing to Disclose

Mahajan, Nakul: Nothing to Disclose

Mahan, Mark: Nothing to Disclose

Maher, Chris: Speaking and/or Teaching Arrangements: Various (Amount not disclosed); Trips/Travel: Various (Amount not disclosed, Paid directly to institution/employer); Scientific Advisory Board: Cochrane Back and Neck Group (Amount not disclosed), Centre for Evidence-Based Physiotherapy

(Amount not disclosed); Research Support - Investigator Salary: NHMRC (F, Paid directly to institution/employer); Research Support - Staff and/or Materials: Various (H, Paid directly to institution/employer); Grants: Various (H, Paid directly to institution/employer); Fellowship Support: NHMRC (F, Paid directly to institution/employer).

Mahieu, Geert L.: Consulting: DePuy Synthes (B, Paid directly to institution/employer), Medacta (B).

Mahmud, Rufai: Nothing to Disclose

Main, Chris J.: Royalties: The Back Book (B); Scientific Advisory Board: MedRisk International Scientific Advisory Board (B); Other Office: American Physical Therapy Association (B).

Maislin, Greg: Consulting: Paradigm Spine (Amount not disclosed, Paid directly to institution/employer).

Maitra, Sukanta: Nothing to Disclose

Mak, Kin Cheung: Nothing to Disclose

Makanji, Heeren: Nothing to Disclose

Makhni, Melvin C.: Nothing to Disclose

Maldonado, Ruben: Nothing to Disclose

Malham, Gregory M.: Consulting: Medtronic (B, Paid directly to institution/employer), Stryker (B, Paid directly to institution/employer), NuVasive (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (B, Paid directly to institution/employer), Stryker (B, Paid directly to institution/employer), NuVasive (B, Paid directly to institution/employer); Trips/Travel: Medtronic (B, Paid directly to institution/employer), Stryker (B, Paid directly to institution/employer), NuVasive (B, Paid directly to institution/employer).

Malhotra, Arvind: Nothing to Disclose

Malhotra, Divya: Nothing to Disclose

Malloy, John (Sean) P.: Consulting: Link Spine (B), Precision (B), Amendia (B), Biomet (B); Speaking and/or Teaching Arrangements: RTI Surgical (B), Providence (B).

Maltenfort, Mitchell: Nothing to Disclose

Mancuso Filho, Jose Antonio: Nothing to Disclose

Mancuso, Carol A.: Nothing to Disclose

Mangla, Mahima: Nothing to Disclose

Mannen, Erin: Nothing to Disclose

Mannen, Erin: Nothing to Disclose

Manning, Blaine: Nothing to Disclose

Mannion, Anne F.: Nothing to Disclose

Manson, Neil A.: Speaking and/or Teaching Arrangements: Medtronic (B); Scientific Advisory Board: Medtronic (B), Halifax Biomedical (B); Research Support - Staff and/or Materials: Medtronic (E, Paid directly to institution/employer).

Manzano, Glen: Nothing to Disclose

Mao, Haiqing: Nothing to Disclose

Mao, Saihu: Nothing to Disclose

Marascalchi, Bryan J.: Nothing to Disclose

Marawar, Satyajit: Nothing to Disclose

Marcaccio, Stephen: Nothing to Disclose

Marchi, Luis: Nothing to Disclose

Marciano, Rudy D.: Nothing to Disclose

Marco, Rex A.: Consulting: Aesculap (B); Speaking and/or Teaching Arrangements: DePuy Synthes (E), NuVasive (B), Globus Medical (C); Scientific Advisory Board: Aesculap (None); Fellowship Support: Globus (E, Paid directly to institution/employer).

Marcon, Raphael M.: Nothing to Disclose

Marcucio, Ralph: Grants: Baxter Pharmaceuticals (D, Paid directly to institution/employer).

Marek, Ryan J.: Nothing to Disclose

Marino, James F.: Stock Ownership: Trinity Orthopedics (80%); Private Investments: Trinity Orthopedics (80%); Consulting: Trinity Orthopedics (None); Trips/Travel: Trinity Orthopedics (Amount not disclosed); Board of Directors: Trinity Orthopedics (Amount not disclosed); Scientific Advisory Board: Trinity Orthopedics (Amount not disclosed); Other Office: CEO of Trinity Orthopedics (None); Research Support - Staff and/or Materials: Trinity Orthopedics (E).

Marino, Ralph: Consulting: Vertex Pharmaceuticals (B, Paid directly to institution/employer), The Source for Market Research (A).

Markova, Dessislava: Nothing to Disclose

Marks, Michael R.: Nothing to Disclose

Marqués Parrilla, Carlos: Nothing to Disclose

Marshall, Lynn: Nothing to Disclose

Martens, Frederic: Nothing to Disclose

Marti, Cindy L.: Nothing to Disclose

Martin, Allan: Nothing to Disclose

Martin, Audrey: Nothing to Disclose

Martin, Brook I.: Consulting: Washington State Department of Health (D); Other Office: Gold Standard Research (Amount not disclosed, Paid directly to institution/employer); Research Support - Investigator Salary: Dartmouth College (F, Paid directly to institution/employer); Grants: Dartmouth College (F, Paid directly to institution/employer).

Martin, Christopher T.: Trips/Travel: Globus (Amount not disclosed).

Martin, Joel R.: Nothing to Disclose

Martin, John: Nothing to Disclose

Martin, John: Nothing to Disclose

Martineck, Sarah B.: Relationships Outside the One-Year Requirement: Zimmer Biomet Spine (Consulting, Dissolved 06/2015, F).

Martínez Gómez, Debora: Nothing to Disclose

Martínez, Kevin R.: Nothing to Disclose

Martín-Fernández, Marta: Nothing to Disclose

Martins, Delio E.: Nothing to Disclose

Martirosyan, Nikolay: Nothing to Disclose

Martz, Dean: Nothing to Disclose

Maruo, Kieshi: Nothing to Disclose

Maserati, Matthew B.: Nothing to Disclose

Mason, Alexander: Consulting: KB Medical (A), LANX (A).

Masoudi, Aidin: Nothing to Disclose

Massel, Dustin H.: Nothing to Disclose

Massicotte, Eric M.: Consulting: Global View Point (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: AOSpine North America (Amount not disclosed); Scientific Advisory Board: Canadian Neuroscience Federation Society (Scientific Committee); Grants: Medtronic (B, Paid directly to institution/employer), DePuy (B, Paid directly to institution/employer), Zimmer (B, Paid directly to institution/employer).

Masson, Robert L.: Consulting: DePuy Synthes Spine (A), Biedermann Evotech (A), California Institute of Regenerative Medicine Surgeon Developer: Mitaka USA (A); Trips/Travel: DePuy Synthes Spine (A).

Matheis, Erika: Stock Ownership: Globus Medical (<1%); Other: Globus Medical (E).

Matson, David: Trips/Travel: Clinical and Translational Science Institute, University of Minnesota (B); Research Support - Investigator Salary: Clinical and Translational Science Institute, University of Minnesota (B).

Matsumoto, Morio: Consulting: LDR (B); Scientific Advisory Board: Kyocera (A); Research Support - Staff and/or Materials: Medtronic Japan (D, Paid directly to institution/employer).

Matsushita, Akinobu: Nothing to Disclose

Matsuura, Masaki: Nothing to Disclose

Matsuyama, Yukihiro: Nothing to Disclose

Matta, Ajay: Nothing to Disclose

Matz, Paul G.: Speaking and/or Teaching Arrangements: AOSpine North America (B).

Mauri, Thomas M.: Nothing to Disclose

Maxwell, Matthew: Nothing to Disclose

Maxwell, Stuart: Nothing to Disclose

Maybin, Ashley: Nothing to Disclose

Maybin, A. Simone: Nothing to Disclose

Mayer, E. Kano A.: Consulting: Inspire Sleep (B); Speaking and/or Teaching Arrangements: North America Spine Society (B); Trips/Travel: Spine Injection Society (A), North American Spine Society (None).

Mayer, John M.: Consulting: Palladian Muscular Skeletal Health (B); Speaking and/or Teaching Arrangements: Rehab Essentials (B); Scientific Advisory Board: Palladian Muscular Skeletal Health (None); Research Support - Investigator Salary: FEMA (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: FEMA (F, Paid directly to institution/employer); Grants: FEMA (F, Paid directly to institution/employer).

Mayer, Ryan: Nothing to Disclose

Mayer, Tom G.: Nothing to Disclose

Mayfield, Christian: Nothing to Disclose

Mayo, Benjamin: Grants: Cervical Spine Research Society (B, Paid directly to institution/employer).

Mayorga Villa, Juan Diego: Nothing to Disclose

Mazanec, Daniel J.: Consulting: First Consult (A); Trips/Travel: NASS (A); Other Office: Dorsata (E).

Mazel, Christian: Stock Ownership: Amplitude (<1%); Consulting: Zimmer (B); Speaking and/or Teaching Arrangements: Medtronic (B); Trips/Travel: DePuy Spine (B); Scientific Advisory Board: Clariance (B).

Maziad, Ali M.: Nothing to Disclose

Mazur, Marcus D.: Nothing to Disclose

McAfee, Paul C.: Royalties: Globus Medical (F); Stock Ownership: Breakaway Imaging- Medtronic (50%); Private Investments: Globus Medical (50%), Cervitech (5%); Consulting: Abbott Pharmaceutical (F); Speaking and/or Teaching Arrangements: Pioneer Surgical (F); Trips/Travel: DePuy Spine (G); Board of Directors: Disc Motion Technology (F); Scientific Advisory Board: SpineMedica (D); Other Office: Bonovo (F); Endowments: Impliant (E); Fellowship Support: Globus Medical (E); Other: Too Numerous to Add (Amount not disclosed).

McAnany, Steven J.: Nothing to Disclose

McCain, Arthur: Consulting: Benvenue Medical (B); Scientific Advisory Board: Benvenue Medical (B).

McCathie, Becky: Nothing to Disclose

McClellan, John W.: Royalties: Custom Spine (D); Stock Ownership: Custom Spine (<1%); Other Office: Spine (Reviewer).

McClellan, Steve: Consulting: Michelin North America (Amount not disclosed, Paid directly to institution/employer); Research Support - Investigator Salary: Michelin North America (C).

McClelland III, Shearwood: Nothing to Disclose

McClendon Jr, Jamal: Nothing to Disclose

McClendon, Mark: Nothing to Disclose

McConnell, Jeffrey R.: Royalties: Globus Medical (E); Stock Ownership: Globus Medical (<1%), Vertical Spine (<1%); Consulting: Globus Medical (B), Vertical Spine (A), LDR (B); Speaking and/or Teaching Arrangements: Globus Medical (A); Trips/Travel: Globus Medical, (A).

McCool, Jennifer: Stock Ownership: K2M (<1%, Paid directly to institution/employer); Other Office: K2M (Amount not disclosed).

McCormack, Bruce M.: Stock Ownership: Providence Medical Technology (None); Board of Directors: Providence Medical Technology (None).

McCoy, Eric S.: Nothing to Disclose

McDaniel, Eric: Nothing to Disclose

McDonald, Colin: Nothing to Disclose

McDonald, Colin: Nothing to Disclose

McGarry, Michelle: Nothing to Disclose

McGee, William: Nothing to Disclose

McGilvray, Kirk C.: Nothing to Disclose

McGinty, Trent: Nothing to Disclose

McGirt, Matthew J.: Consulting: Stryker Spine (D); Relationships Outside the One-Year Requirement: Biomet-Zimmer (Scientific Advisory Board, B).

McGowan, Shane: Nothing to Disclose

McGraw, Katlyn: Nothing to Disclose

McGuire, Kevin J.: Consulting: Orthopedic Data Solutions Health Trust (B).

McIlduff, Mark: Consulting: Boston Biomedical Associates (B, Paid directly to institution/employer).

McIlroy, Suzanne: Nothing to Disclose

McIntosh, Greg: Nothing to Disclose

McKay, William F.: Stock Ownership: Medtronic (<1%); Consulting: Medtronic (D); Trips/Travel: Medtronic (Amount not disclosed).

McKee, David J.: Stock Ownership: Globus Medical (<1%).

McKeon, Melissa D.: Nothing to Disclose

McLain, Robert F.: Nothing to Disclose

McLemore, Ryan: Nothing to Disclose

Mead, Loren: Nothing to Disclose

Meagher, Richard J.: Nothing to Disclose

Meaie, Joshua J.: Nothing to Disclose

Mehbod, Amir: Royalties: Stryker (F); Consulting: Zimmer (C).

Mehdi, Syed K.: Nothing to Disclose

Mehdian, Hossein: Nothing to Disclose

Mehta, Ankit: Nothing to Disclose

Mehta, Hitesh P.: Other Office: DeGen Medical (Amount not disclosed).

Mehta, Vivek A.: Nothing to Disclose

Meisel, Hans J.: Nothing to Disclose

Melchor, Francisco: Nothing to Disclose

Mendelsohn, Daniel: Nothing to Disclose

Mendoza-Lattes, Sergio: Consulting: Globus Medical (B); Scientific Advisory Board: Globus Medical (B).

Meng, Fanqing: Nothing to Disclose

Menga, Emmanuel N.: Nothing to Disclose

Merli, Geno: Consulting: Bristol Myers Squibb (None), Johnson & Johnson (None), Sanofi-Aventis (None); Research Support - Staff and/or Materials: Bristol-Myers Squibb (A, Paid directly to institution/employer), Sanofi-Aventis (A, Paid directly to institution/employer), Johnson & Johnson (A, Paid directly to institution/employer), Janssen Scientific Affairs (A, Paid directly to institution/employer), Portola (A); Grants: Bristol Myers Squibb (A, Paid directly to institution/employer), Johnson & Johnson (A), Sanofi-Aventis (A), Portola (A), Janssen Scientific Affairs (A).

Merrill, Robert: Nothing to Disclose
Merritt, Alexander: Nothing to Disclose
Mesfin, Addisu: Grants: J. Robert Gladden Society (D, Paid directly to institution/employer).
Metkar, Umesh S.: Nothing to Disclose
Metz, Lionel N.: Nothing to Disclose
Metzler, John P.: Nothing to Disclose
Meyer, Bernhard: Nothing to Disclose
Meyer, Michael: Nothing to Disclose
Meyer, S. Craig: Royalties: NuVasive (F); Speaking and/or Teaching Arrangements: NuVasive (B);
Research Support - Staff and/or Materials: SI-BONE (C, Paid directly to institution/employer).
Michael, Joy: Nothing to Disclose
Mick, Charles A.: Nothing to Disclose
Middlebrooks, E. Scott: Nothing to Disclose
Middleton, James: Nothing to Disclose
Miele, William R.: Nothing to Disclose
Mignemi, Nicholas: Nothing to Disclose
Mikhael, Mark M.: Royalties: Oxford University Press (A); Consulting: DePuy/Synthes (B), Clariance Spine (A).
Mikula, Anthony L.: Nothing to Disclose
Milam, Robert A.: Royalties: Stryker Spine (B); Consulting: Stryker (B), K2M (B); Speaking and/or
Teaching Arrangements: Spine Wave (B); Board of Directors: Cervical Spine Research Society (None);
Research Support - Staff and/or Materials: Spinal Kinetics (D, Paid directly to institution/employer);
Fellowship Support: AOSpine (E, Paid directly to institution/employer).
Milanovich, Nicholas: Nothing to Disclose
Milbrandt, Todd: Nothing to Disclose
Miller, Emily: Nothing to Disclose
Miller, Jacob: Nothing to Disclose
Miller, Jeffrey W.: Consulting: Stryker (C, Paid directly to institution/employer); Research Support -
Investigator Salary: Stryker (C, Paid directly to institution/employer).
Miller, Mark: Nothing to Disclose
Miller, Samuel: Nothing to Disclose
Miller, Stephanie: Nothing to Disclose
Miller, Steve: Nothing to Disclose
Miller-Torchia, Kelsey: Stock Ownership: Intrinsic Therapeutics (<1%); Other Office: Director (Amount
not disclosed).
Millhouse, Paul W.: Stock Ownership: Globus Medical (<1%); Consulting: Pacira (B).
Milligan, James: Nothing to Disclose
Millner, Peter A.: Speaking and/or Teaching Arrangements: DePuy (Amount not disclosed), Stryker (B);
Trips/Travel: K2M (A).
Milstein, Arnold: Nothing to Disclose
Min, Woo-Kie: Nothing to Disclose
Minardi, Silvia: Nothing to Disclose
Mir, Hamid R.: Nothing to Disclose
Miranda, Bosco: Nothing to Disclose
Mirkin, Rhoderic P.: Nothing to Disclose
Mirza, Sohail K.: Grants: NIH (C, Paid directly to institution/employer).
Mishiro, Takuya: Nothing to Disclose
Mistry, Akshitkumar: Nothing to Disclose

Miyakoshi, Naohisa: Nothing to Disclose
Miyajima, Hiroshi: Trips/Travel: DePuy Spine (Amount not disclosed).
Mizutani, Jun: Consulting: Medtronic, DePuy (A, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (Amount not disclosed).
Mizutani, Jun: Nothing to Disclose
Mnatsakanyan, Lilit: Nothing to Disclose
Moal, Bertrand: Research Support - Investigator Salary: Nemaris (C, Paid directly to institution/employer).
Moal, Olivier: Research Support - Investigator Salary: Nemaris (D, Paid directly to institution/employer).
Moawad, Mohamed: Nothing to Disclose
Mobbs, Ralph J.: Nothing to Disclose
Modi, Krishna: Nothing to Disclose
Moghimi, Michael: Consulting: GMA/Grafton (B, Paid directly to institution/employer).
Moguilovitch, Marina: Nothing to Disclose
Mohamed Ahmed, Amin: Nothing to Disclose
Mohan, Sankar: Nothing to Disclose
Mohan, Suneeth: Other Office: Medtronic (Amount not disclosed).
Mohan, Thirumalai: Nothing to Disclose
Mojica-Santiago, Jorge: Nothing to Disclose
Mokawem, Michael: Nothing to Disclose
Mokkarala, Mahati: Nothing to Disclose
Moldavsky, Mark: Other Office: Globus Medical (Amount not disclosed).
Molinari, Robert W.: Nothing to Disclose
Molinari, William: Nothing to Disclose
Molinari, William J.: Nothing to Disclose
Molloy, Sean: Consulting: K2M (B, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer), Zimmer (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (B, Paid directly to institution/employer), K2M (B, Paid directly to institution/employer), Zimmer (B, Paid directly to institution/employer); Trips/Travel: Medtronic (A, Paid directly to institution/employer), K2M (A, Paid directly to institution/employer), Zimmer (A, Paid directly to institution/employer).
Moojen, Wouter A.: Research Support - Staff and/or Materials: Paradigm Spine (A, Paid directly to institution/employer).
Moore, Bria: Nothing to Disclose
Moore, Camille: Consulting: Biomet Spine (E, Paid directly to institution/employer).
Moore, Gregory: Nothing to Disclose
Moore, Jeff: Nothing to Disclose
Moore, Jill A.: Nothing to Disclose
Moradian, Maxim: Nothing to Disclose
Moreno, Jessica R.: Nothing to Disclose
Morgan, Chad J.: Nothing to Disclose
Morgan, Michael: Nothing to Disclose
Morgan, Robert A.: Speaking and/or Teaching Arrangements: DePuy Synthes (B).
Moridaira, Hiroshi: Nothing to Disclose
Moriguchi, Yu: Nothing to Disclose
Moriguchi, Yu: Nothing to Disclose
Morio, Yasuo: Nothing to Disclose

Morreale, Joseph M.: Speaking and/or Teaching Arrangements: Musculoskeletal Tissue Foundation (B), LDR (B).

Morris, Jonathan: Nothing to Disclose

Morris, Randal: Nothing to Disclose

Moses, Michael J.: Nothing to Disclose

Moshirfar, Ali: Private Investments: New Era Orthopaedics (1.4%).

Moskovich, Ronald: Royalties: Exactech (C).

Mosley, Grace E.: Nothing to Disclose

Mroz, Thomas E.: Stock Ownership: Pearl Diver (<1%); Consulting: Stryker Spine (B), CeramTec (B); Board of Directors: AOSpine North America (B).

Muehlbauer, Eric J.: Board of Directors: North American Spine Society (Executive Director); Other Office: International Spine Intervention Society (B).

Mueller, John: Nothing to Disclose

Mueller, Sarah A.: Nothing to Disclose

Muftuler, L. Tugan: Nothing to Disclose

Muir, Jeff: Nothing to Disclose

Mukamel, Dana: Nothing to Disclose

Mullinix, Kenneth: Research Support - Investigator Salary: Globus Medical (E, Paid directly to institution/employer).

Mulvihill, Jeffrey: Nothing to Disclose

Mundis, Gregory M.: Royalties: NuVasive (E), K2M (B); Consulting: NuVasive (D), Misonix (A), K2M (B); Speaking and/or Teaching Arrangements: NuVasive (C); Fellowship Support: NuVasive (E, Paid directly to institution/employer).

Munoz Maldonado, Yolanda: Nothing to Disclose

Munoz, William: Nothing to Disclose

Murgatroyd, Ashley: Research Support - Investigator Salary: Globus Medical (E, Paid directly to institution/employer).

Muriuki, Muturi: Nothing to Disclose

Murphy, Donald R.: Stock Ownership: Primary Spine Provider Network (20%), Spine Care Partners (20%); Speaking and/or Teaching Arrangements: Rhode Island Spine Center (B); Trips/Travel: New York Chiropractic College (A); Scientific Advisory Board: MedRisk (B).

Murphy, Emma: Nothing to Disclose

Musacchio, Michael J.: Consulting: Paradigm Spine (A); Speaking and/or Teaching Arrangements: CoAlign Innovations (A), Paradigm Spine (B), RTI/Pioneer (B); Trips/Travel: Paradigm Spine (D), Mexican Congress of Neurological Surgeons (B), Baxano (A), Medtronic Spinal and Biologics (A), RTI/Pioneer (A).

Musante, David B.: Consulting: Precision Spine (B), Amendia (B); Scientific Advisory Board: Spinal Kinetics (None); Research Support - Investigator Salary: Orthofix (C, Paid directly to institution/employer), Axiomed (C, Paid directly to institution/employer), Spinal Kinetics (C, Paid directly to institution/employer); Research Support - Staff and/or Materials: Orthofix (D, Paid directly to institution/employer), Axiomed (D, Paid directly to institution/employer), Spinal Kinetics (D, Paid directly to institution/employer).

Mustroph, Martina: Nothing to Disclose

Mutlu, Ayhan: Nothing to Disclose

Myer, Jacqueline: Other Office: Globus Medical (Salary).

Myers, Brad: Nothing to Disclose

Myers, Mark E.: Nothing to Disclose

Myhre, Sue Lynn: Nothing to Disclose

Nachabe, Rami: Other: Philips Healthcare (Salary).

Nadeau, Melissa: Nothing to Disclose

Naef, Floreana: Royalties: DePuy (D); Consulting: DePuy spine (D).

Nagoshi, Narihito: Nothing to Disclose

Nakahara, Masayuki: Nothing to Disclose

Nakajima, Takayuki: Nothing to Disclose

Nakamae, Toshio: Nothing to Disclose

Nakamura, Akihiro: Nothing to Disclose

Nakamura, Hiroaki: Nothing to Disclose

Nakamura, Masanori: Nothing to Disclose

Nakashima, Hiroaki: Nothing to Disclose

Nam, Su-Youn: Stock Ownership: Yuhan Corporation (<1%); Board of Directors: Yuhan Corporation (Amount not disclosed); Scientific Advisory Board: Yuhan Corporation (Chief Scientific Officer); Other Office: Yuhan Corporation (Amount not disclosed).

Nandyala, Sreeharsha V.: Nothing to Disclose

Nascone, Jason: Royalties: Synthes DePuy (A); Consulting: Smith Nephew (C); Speaking and/or Teaching Arrangements: AO (A); Other: IMDS (F).

Nassr, Ahmad N.: Speaking and/or Teaching Arrangements: Magnifi Group (Amount not disclosed); Research Support - Staff and/or Materials: Pfizer (E, Paid directly to institution/employer); Fellowship Support: AOSpine NA (E, Paid directly to institution/employer).

Nasto, Luigi A.: Nothing to Disclose

Nataraj, Andrew: Nothing to Disclose

Nataraj, Andrew: Nothing to Disclose

Nater, Anick: Nothing to Disclose

Navarro, Juliano Nery: Nothing to Disclose

Navarro-Ramirez, Rodrigo: Nothing to Disclose

Nayar, Gautam: Nothing to Disclose

Nayar, Suresh: Nothing to Disclose

Nazemi, Alireza K.: Nothing to Disclose

Naziri, Qais: Nothing to Disclose

Nelles, Dave: Nothing to Disclose

Nelson, Benjamin Q.: Nothing to Disclose

Nelson, Ewell L.: Consulting: Medtronic Navigation (A); Speaking and/or Teaching Arrangements: Medtronic Navigation (C); Trips/Travel: Medtronic Navigation (B).

Nelson, Joe: Nothing to Disclose

Nemani, Venu M.: Nothing to Disclose

Nerenz, David: Research Support - Staff and/or Materials: Agency for Health Care Research and Quality (E, Paid directly to institution/employer); Other: Blue Cross Blue Shield of Michigan (G, Paid directly to institution/employer).

Neroni, Nassimiliano: Nothing to Disclose

Neuman, Brian J.: Grants: DePuy Synthes (C, Paid directly to institution/employer).

Neves, Maick: Nothing to Disclose

Neway, William E.: Nothing to Disclose

Newcomb, Anna G.: Nothing to Disclose

Ngo, Kevin: Nothing to Disclose

Nguyen, Dan T.: Grants: VertiFlex (B, Paid directly to institution/employer).

Nguyen, Emily C.: Trips/Travel: Medtronic (Travel expenses).

Nguyen, Giao: Nothing to Disclose

Nguyen, Ha: Nothing to Disclose
Nguyen, Hal: Nothing to Disclose
Nguyen, Hang T.: Nothing to Disclose
Nguyen, Jacqueline: Nothing to Disclose
Nguyen, Joseph: Nothing to Disclose
Nguyen, Lauren: Nothing to Disclose
Nguyen, Ngoc-Lam M.: Nothing to Disclose
Nguyen, Stacie: Nothing to Disclose
Ni, Amelia: Nothing to Disclose
Nian, Hui: Consulting: Medtronic (D, Paid directly to institution/employer).
Nicholls, Fred: Nothing to Disclose
Nicholson, Kristen: Nothing to Disclose
Nickoli, Michael S.: Nothing to Disclose
Nie, Lin: Nothing to Disclose
Niedermeier, Steven R.: Nothing to Disclose
Niedzielak, Timothy R.: Consulting: Providence Medical Technology (B).
Niel-Asher, Simeon: Nothing to Disclose
Nielsen, Dennis H.: Research Support - Investigator Salary: Globus Medical (E, Paid directly to institution/employer).
Niemeyer, Thomas: Nothing to Disclose
Njoku, Dolores: Royalties: McGraw Hill Education (B); Research Support - Staff and/or Materials: Thermo Fisher (C, Paid directly to institution/employer).
Njoku, Innocent U.: Nothing to Disclose
Nnadi, Colin: Trips/Travel: Medtronic (Amount not disclosed); Scientific Advisory Board: Nordic Health (None); Research Support - Staff and/or Materials: Ellipse (A).
Noordeen, Hilali: Private Investments: Spinal Surgical Associates (80%); Consulting: K2M (E), Stryker (E), Baxter (E), Kspine (E), Ellipse technologies (E); Speaking and/or Teaching Arrangements: K2M (D), Stryker (D), Kspine (D), Ellipse (D); Trips/Travel: K2M (C), Stryker (C), Ellipse (C); Scientific Advisory Board: K2M (C); Research Support - Staff and/or Materials: K2M (C, Paid directly to institution/employer), Ellipse (C, Paid directly to institution/employer); Grants: K2M (C, Paid directly to institution/employer), Ellipse (C, Paid directly to institution/employer).
Norden, Justin: Nothing to Disclose
Norheim, Elizabeth P.: Nothing to Disclose
Noriega, David C.: Consulting: SpineArt (C, Paid directly to institution/employer), Medtronic (B), Vexim (C, Paid directly to institution/employer).
Norton, H. J.: Nothing to Disclose
Noshchenko, Andriy: Nothing to Disclose
Nota, Sjoerd: Nothing to Disclose
Nottmeier, Eric W.: Royalties: Globus (C, Paid directly to institution/employer); Consulting: Medtronic Navigation (B), Globus (B); Speaking and/or Teaching Arrangements: DePuy/Synthes (B); Scientific Advisory Board: K2M (B); Relationships Outside the One-Year Requirement: Brainlab (Consulting, Dissolved 01/2009, B), Medtronic Navigation (Consulting, Dissolved 05/2011, B).
Nouri, Aria: Nothing to Disclose
Novack, Victor: Nothing to Disclose
Nozaki, Taiki: Nothing to Disclose
Nucci, Robert C.: Nothing to Disclose
Nuckley, David J.: Device or Biologic Distributorship (Physician-Owned Distributorship): Zimmer Spine (E); Consulting: Zyga Technologies (C).

Nuckols, Teryl: Research Support - Investigator Salary: AHRQ (G, Paid directly to institution/employer); Research Support - Staff and/or Materials: Collaborative Spine Research Foundation (E, Paid directly to institution/employer); Grants: AHRQ (G, Paid directly to institution/employer).

Nugaeva, Natalia: Nothing to Disclose

Nunley, Pierce D.: Royalties: Osprey Biomedical (B), LDR Spine (D), K2M (B); Stock Ownership: Amedica (<1%), SafeWire (<1%), Paradigm Spine (<1%), Spineology (<1%); Consulting: VertiFlex (D); Speaking and/or Teaching Arrangements: K2M (C), LDR Spine (C); Scientific Advisory Board: K2M (B).

Nwachukwu, Benedict: Nothing to Disclose

Nwodim, Emeka J.: Nothing to Disclose

Nwosu, Kenneth: Nothing to Disclose

Obeid, Ibrahim: Royalties: Alphatec Spine (A); Consulting: Medtronic (B); Speaking and/or Teaching Arrangements: DePuy Synthes Spine (B).

Oborocianu, Ioana: Nothing to Disclose

Obri, Tawfik: Nothing to Disclose

O'Brien, David R.: Speaking and/or Teaching Arrangements: North American Spine Society (B); Board of Directors: North American Spine Society (Health Policy Council Director); Trips/Travel: ISIS (Amount not disclosed), AAPMR (Amount not disclosed); Other Office: ISIS (Socioeconomic Council Vice-Chair), AAPMR (None).

O'Brien, Evan D.: Stock Ownership: Spineology (<1%).

O'Brien, Michael: Royalties: DePuy (F); Consulting: DePuy (D); Research Support - Staff and/or Materials: NuVasive (F, Paid directly to institution/employer), Seeger (F, Paid directly to institution/employer), DJO (E, Paid directly to institution/employer), DePuy (F, Paid directly to institution/employer), K2M (D, Paid directly to institution/employer).

O'Brien, Michael F.: Royalties: DePuy Spine (G); Consulting: DePuy Spine (D); Trips/Travel: DePuy Spine (B); Research Support - Staff and/or Materials: NuVasive (F, Paid directly to institution/employer), Seeger (F, Paid directly to institution/employer), DJO (G, Paid directly to institution/employer), DePuy Spine (F, Paid directly to institution/employer), K2M (C, Paid directly to institution/employer).

O'Connell, Grace: Nothing to Disclose

O'Connor, Annie: Nothing to Disclose

O'Connor, J. Patrick: Nothing to Disclose

O'Connor, Kathryn: Nothing to Disclose

O'Connor, Kevin C.: Nothing to Disclose

Odebode, Olugbenga T.: Nothing to Disclose

O'Donnell, Jeffrey A.: Nothing to Disclose

Odum, Susan: Nothing to Disclose

Offoha, Roosevelt: Nothing to Disclose

Ofluoglu, Ender: Nothing to Disclose

Ogata, Toru: Nothing to Disclose

Ogilvie, James W.: Royalties: Medtronic (C); Stock Ownership: NuVasive (<1%); Consulting: Ortho Dev (None); Scientific Advisory Board: Lucina Foundation (None).

Ogon, Michael: Consulting: DePuy Synthes, Medtronic (Amount not disclosed); Speaking and/or Teaching Arrangements: AOSpine (Amount not disclosed); Board of Directors: ISASS (Amount not disclosed); Scientific Advisory Board: EuroSpine (Amount not disclosed).

Oh, Byung Hak: Nothing to Disclose

Oh, Cheongeun: Nothing to Disclose

Oh, Chundo: Nothing to Disclose

Oh, Jacob Y.: Nothing to Disclose

Ohnmeiss, Donna D.: Board of Directors: North American Spine Society (Education Publishing Chair).

Ohya, Junichi: Nothing to Disclose

Ohyama, Shoichiro: Nothing to Disclose

Okawa, Akihiro: Nothing to Disclose

Okoli, Michael: Nothing to Disclose

Okonkwo, David O.: Royalties: Biomet (F, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: AO (B).

Oktenoglu, Tunc: Nothing to Disclose

Olan, Wayne: Speaking and/or Teaching Arrangements: Benvenue Medical (A).

Oliveira, Daniel A.: Consulting: NuVasive (B, Paid directly to institution/employer), Alphatec Spine (B, Paid directly to institution/employer).

Oliveira, Leonardo: Nothing to Disclose

Oliver, Rema: Nothing to Disclose

Olmscheid, Neil: Nothing to Disclose

Olson, Doug E.: Nothing to Disclose

Omata, Hiroaki: Nothing to Disclose

Omeis, Ibrahim: Consulting: Stryker (Amount not disclosed), DePuy (Amount not disclosed); Speaking and/or Teaching Arrangements: Stryker (Amount not disclosed), DePuy (Amount not disclosed).

Onat, Elif: Nothing to Disclose

O'Neill, Conor: Stock Ownership: Relievant (<1%), Nocimed (<1%).

O'Neill, Conor: Nothing to Disclose

O'Neill, Kevin: Nothing to Disclose

Oner, F. Cumhur: Consulting: DePuy Synthes (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: AOSpine (Amount not disclosed, Paid directly to institution/employer); Other Office: AOSpine (Knowledge Forum Spinal Trauma Chairman Elect); Research Support - Investigator Salary: AOSpine (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: Synthes (E, Paid directly to institution/employer); Fellowship Support: DePuy Synthes (G, Paid directly to institution/employer).

Ong, Alvin: Consulting: Stryker (A), Smith & Nephew (A).

Ong, Kevin L.: Other: Exponent (Amount not disclosed, Paid directly to institution/employer).

Onyekwelu, Ikemefuna: Nothing to Disclose

Oppenlander, Mark E.: Nothing to Disclose

Oravec, Daniel: Nothing to Disclose

Ordway, Nathaniel R.: Grants: DePuy Spine (C, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Ouroboros (Grant, Dissolved 12/2013, C, Paid directly to institution/employer).

Oren, Jonathan H.: Nothing to Disclose

Orlando, Dana: Nothing to Disclose

Orndorff, Douglas G.: Consulting: Integra (D, Paid directly to institution/employer), NuVasive (D), Stryker (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: VertiFlex (B), Globus Medical (B), Integra (B), NuVasive (B).

Ornelas, Christopher C.: Nothing to Disclose

Orozco, Fabio: Consulting: Stryker (A).

Ortiz, A. Orlando: Nothing to Disclose

Osei, Nana A.: Stock Ownership: Amgen (<1%), Carl Zeiss (<1%).

Oshita, Yusuke: Nothing to Disclose

Oskouian, Rod J.: Royalties: Globus (C); Fellowship Support: NuVasive (E, Paid directly to institution/employer).

Osler, Polina: Nothing to Disclose

Otani, Yoshinori: Nothing to Disclose

O'Toole, John E.: Royalties: Globus Medical (A), Pioneer Surgical (D); Stock Ownership: Theracell (<1%); Consulting: Globus Medical (A), Pioneer Surgical (A).

O'Toole, Robert V.: Consulting: Smith and Nephew (B); Grants: Synthes (B), Stryker (B).

Ouyang, David: Nothing to Disclose

Ou-Yang, David: Nothing to Disclose

Ouyang, Zhihua: Nothing to Disclose

Overley, Samuel C.: Nothing to Disclose

Owens, R. Kirk: Speaking and/or Teaching Arrangements: Alphatec Spine (A).

Oxner, William M.: Consulting: Medtronic (Amount not disclosed); Speaking and/or Teaching Arrangements: Medtronic (B); Trips/Travel: Medtronic (Amount not disclosed); Research Support - Staff and/or Materials: Medtronic (E, Paid directly to institution/employer); Grants: Medtronic (B); Fellowship Support: Medtronic (A).

Ozarkar, Tejas: Nothing to Disclose

Ozcan, Emel E.: Nothing to Disclose

Ozdogan, Selcuk: Nothing to Disclose

Padegimas, Eric M.: Nothing to Disclose

Padula, William: Nothing to Disclose

Pagarigan, Krystle: Nothing to Disclose

Pahl, Douglas W.: Consulting: Stryker (B, Paid directly to institution/employer).

Pahlavan, Sohrab: Nothing to Disclose

Pahys, Joshua M.: Consulting: DePuy Synthes Spine (B).

Pak, Shane S.: Consulting: Republic Spine (E).

Palma, Joaquin: Nothing to Disclose

Palmer, James: Nothing to Disclose

Palmieri, Katherine: Nothing to Disclose

Palmisani, Matteo: Nothing to Disclose

Palumbo, Mark A.: Consulting: Stryker (B); Speaking and/or Teaching Arrangements: Globus Medical (Amount not disclosed); Trips/Travel: Stryker Spine (A).

Pan, Ting-Jung: Nothing to Disclose

Panagiotopoulos, Konstantinos: Nothing to Disclose

Panchal, Ripul R.: Consulting: Precision Spine (A), Globus (B), Medtronic (C), Biomet (C), Mizuho Orthopedic Systems (B); Board of Directors: California Association of Neurological Surgeons (None); Other Office: North American Spine Society (Patient Safety Committee); Research Support - Investigator Salary: Baxter (B); Research Support - Staff and/or Materials: Globus Medical (E, Paid directly to institution/employer).

Panda, Aditya P.: Nothing to Disclose

Panzenboeck, Lukas: Trips/Travel: DePuy Synthes Spine (B).

Papaliodis, Dean N.: Nothing to Disclose

Papavero, Luca: Nothing to Disclose

Pape, Haiko: Nothing to Disclose

Pappu, Suguna: Nothing to Disclose

Papuga, Mark O.: Nothing to Disclose

Paquis, Philippe: Nothing to Disclose

Parajon Diaz, Avelino: Consulting: DePuy Synthes (Amount not disclosed); Speaking and/or Teaching Arrangements: Biomet (Amount not disclosed); Trips/Travel: RTI (Amount not disclosed); Other: AOSpine (Amount not disclosed).

Paramasivam, Aghilavendan: Nothing to Disclose

Parent, Henry: Nothing to Disclose

Parent, Stefan: Stock Ownership: Spinologics (30%); Private Investments: Spinologics (30%); Consulting: DePuy Synthes Spine (B); Speaking and/or Teaching Arrangements: DePuy Spine (B); Trips/Travel: Medtronic (None), EOS Imaging (B); Board of Directors: Scoliosis Research Society (A); Endowments: DePuy Spine (A, Paid directly to institution/employer); Research Support - Staff and/or Materials: DePuy Spine (C, Paid directly to institution/employer), EOS-Imaging (E, Paid directly to institution/employer); Fellowship Support: DePuy Spine (D, Paid directly to institution/employer), Medtronic (D, Paid directly to institution/employer).

Parhami, Farhad: Stock Ownership: MAX BioPharma (54%); Private Investments: MAX BioPharma (54%); Consulting: MAX BioPharma (Amount not disclosed); Other Office: MAX BioPharma (Amount not disclosed).

Park, Andrew: Nothing to Disclose

Park, Andrew J.: Nothing to Disclose

Park, Christine: Nothing to Disclose

Park, Hee: Nothing to Disclose

Park, Howard: Nothing to Disclose

Park, Jong-Beom: Board of Directors: European Spine Journal (None), International Orthopaedics (None), Asian Spine Journal (None); Scientific Advisory Board: Cervical Spine Research Society Asia Pacific Session (None).

Park, Kun Young: Fellowship Support: Eulji Medical College (A).

Park, Kunyoung: Nothing to Disclose

Park, Kyung Hoon: Nothing to Disclose

Park, Moon Soo: Nothing to Disclose

Park, Paul: Royalties: Globus Medical (B); Consulting: Globus Medical (B), Vertex (B), Medtronic (C), Biomet (C); Speaking and/or Teaching Arrangements: Globus Medical (C); Scientific Advisory Board: Neuralstem (A); Research Support - Investigator Salary: Blue Cross Blue Shield Foundation (A, Paid directly to institution/employer); Grants: Blue Cross Blue Shield (E, Paid directly to institution/employer), StemCells (C, Paid directly to institution/employer).

Park, So Young: Nothing to Disclose

Park, Soo-An: Nothing to Disclose

Park, Sung Bae: Nothing to Disclose

Parker, Rhiannon M.: Nothing to Disclose

Parker, Scott L.: Nothing to Disclose

Parrish, Robin: Nothing to Disclose

Paryavi, Ebrahim: Nothing to Disclose

Pashman, Robert S.: Nothing to Disclose

Paskowski, Ian: Nothing to Disclose

Pasquotti, Giulio: Nothing to Disclose

Passias, Peter G.: Consulting: Medicea (None).

Pateder, Dhruv B.: Consulting: K2M (C); Speaking and/or Teaching Arrangements: LINK Orthopedics (B); Trips/Travel: Spine Frontier (C); Scientific Advisory Board: K2M (A).

Patel, Abhishek: Nothing to Disclose

Patel, Alpesh A.: Royalties: Amedica (B); Stock Ownership: Amedica (<1%), Cytonics (<1%), Nocimed (<1%), Vital5 (<1%); Consulting: Amedica (None), Stryker (None), Biomet (C), DePuy (B); Board of Directors: Cervical Spine Research Society (None); Fellowship Support: OREF (A), Omega (B); Other: Amedica (<1%).

Patel, Anuradha: Nothing to Disclose

Patel, Ashish: Nothing to Disclose

Patel, Neil N.: Nothing to Disclose

Patel, Pranay: Nothing to Disclose

Patel, Rakesh (Rock) D.: Nothing to Disclose

Patel, Ravi: Nothing to Disclose

Patel, Sujal: Nothing to Disclose

Patel, Vikas V.: Royalties: Aesculap (B, Paid directly to institution/employer), Biomet (B, Paid directly to institution/employer), Springer (A); Private Investments: Cerapedics (<1%); Consulting: Aesculap (B), SI-BONE (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Baxter Healthcare (B), Stryker (B); Scientific Advisory Board: Aesculap (B, Paid directly to institution/employer), AlloSource (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Synthes (D, Paid directly to institution/employer); Grants: Synthes (B, Paid directly to institution/employer), Medtronic (C, Paid directly to institution/employer), Aesculap (C, Paid directly to institution/employer), VertiFlex (C, Paid directly to institution/employer), Orthofix (C, Paid directly to institution/employer), Pfizer (D, Paid directly to institution/employer); Fellowship Support: Omega (B, Paid directly to institution/employer), Globus (E, Paid directly to institution/employer).

Pathak, Pramod: Nothing to Disclose

Patil, Shashikant: Nothing to Disclose

Patt, Bradley E.: Stock Ownership: Theracell (10%); Private Investments: Theracell (10%); Board of Directors: Theracell (None); Other Office: Theracell (F).

Patt, Joshua: Speaking and/or Teaching Arrangements: Synthes, DePuy (B).

Patterson, Joseph T.: Nothing to Disclose

Patterson, Patrick: Other Office: Arteriocyte (Salary, Paid directly to institution/employer).

Patton, Andrew: Nothing to Disclose

Patton, Chad M.: Nothing to Disclose

Patwardhan, Avinash G.: Stock Ownership: Spinal Kinetics (<1%); Consulting: Spinal Kinetics (B); Speaking and/or Teaching Arrangements: Spinal Kinetics (B); Trips/Travel: Spinal Kinetics (B); Scientific Advisory Board: Ortho Kinematics (Amount not disclosed).

Paul, Gary: Other Office: Spinal Kinetics (Amount not disclosed).

Paul, Justin C.: Nothing to Disclose

Paulino Pereira, Nuno Rui: Nothing to Disclose

Paulino, Carl: Consulting: Ethicon (B); Speaking and/or Teaching Arrangements: DePuy/Johnson & Johnson (B); Trips/Travel: Ethicon (B).

Paull, Daniel: Nothing to Disclose

Pawelek, Jeff B.: Nothing to Disclose

Payton, Corri A.: Nothing to Disclose

Pechiborsch, Dmitry: Nothing to Disclose

Pedlow, Frank X.: Nothing to Disclose

Pehler, Stephen: Nothing to Disclose

Peker, Gokhan: Nothing to Disclose

Pekmezci, Murat: Research Support - Staff and/or Materials: NuVasive (B, Paid directly to institution/employer).

Pelletier, Glenn: Nothing to Disclose

Pelletier, Matthew H.: Trips/Travel: Invibio (Travel expenses).

Pellise, Ferran: Consulting: DePuy Spine J&J (C), Biomet (B); Grants: DePuy Spine Synthes (F, Paid directly to institution/employer), Medtronic (C, Paid directly to institution/employer).

Peloza, John H.: Nothing to Disclose

Pendi, Arif: Nothing to Disclose

Peng, Huang: Nothing to Disclose
 Pennes, Florent: Nothing to Disclose
 Pennicooke, Brenton: Nothing to Disclose
 Pennington, Andrew: Nothing to Disclose
 Penrose, Colin: Nothing to Disclose
 Penumatsa, Vamsi Krishna Varma: Nothing to Disclose
 Pereira, Renata C.: Nothing to Disclose
 Perez Romera, Ana Belen: Nothing to Disclose
 Perez, Silvia: Nothing to Disclose
 Perez-Grueso, Francisco J.: Consulting: K2M (A); Research Support - Investigator Salary: DePuy Sinters (D, Paid directly to institution/employer).
 Perkins, Archibald: Nothing to Disclose
 Peroglio, Marianna: Nothing to Disclose
 Perruccio, Anthony V.: Nothing to Disclose
 Perry, Daniel R.: Nothing to Disclose
 Pescador Hernandez, David: Nothing to Disclose
 Peters, James R.: Nothing to Disclose
 Peters, Nicholas: Nothing to Disclose
 Peterson, Alexander: Nothing to Disclose
 Peterson, Erica J.: Nothing to Disclose
 Peterson, Josh: Nothing to Disclose
 Peterson, Mark D.: Royalties: NuVasive (E); Stock Ownership: NuVasive (<1%); Consulting: NuVasive (D); Speaking and/or Teaching Arrangements: NuVasive (B); Board of Directors: Society of Lateral Access Spine Surgery (None); Scientific Advisory Board: Surgeon Advisory Board (None); Research Support - Staff and/or Materials: NuVasive (B, Paid directly to institution/employer).
 Petraglia, Carmen A.: Nothing to Disclose
 Petridis, Petros: Nothing to Disclose
 Pettine, Kenneth A.: Stock Ownership: Mesoblast (1%); Consulting: Paradigm (B); Speaking and/or Teaching Arrangements: Spine Smith/Celling Biosciences (Amount not disclosed); Trips/Travel: Spinal Motion (A); Research Support - Staff and/or Materials: ISTO (B), Globus (B), Paradigm (B), Spinal Motion (B), SpineSmith/Celling Bioscience, (B).
 Pflug, Emily: Nothing to Disclose
 Pham, Martin H.: Nothing to Disclose
 Phan, Kevin: Nothing to Disclose
 Phan, Philippe: Nothing to Disclose
 Phillips, Frank M.: Royalties: NuVasive (F), Stryker (F), DePuy Spine (C); Stock Ownership: NuVasive (<1%), Theracell (5%), Vital 5 (15%), Spinal Kinetics (<1%), Facet Solutions (<1%), SI-BONE (<1%), Bonovo (2%), Pearl Diver (<1%); Consulting: NuVasive (B), Ellipse (<1%); Board of Directors: Vital 5 (Amount not disclosed), Theracell (Amount not disclosed).
 Phukan, Rishabh D.: Nothing to Disclose
 Pichierri, Giuseppe: Nothing to Disclose
 Pierce, Todd: Nothing to Disclose
 Pimenta, Luiz: Royalties: NuVasive (G); Consulting: NuVasive (Amount not disclosed), Zyga Tech (Amount not disclosed), MDT (Amount not disclosed); Board of Directors: ISASS (None); Scientific Advisory Board: LASAS (Scientific Reviewer).
 Pincus, Tamar: Relationships Outside the One-Year Requirement: EuroSpine (Grant, Dissolved 06/2015, C, Paid directly to institution/employer), AR-UK (Grant, Dissolved 03/2014,).
 Pinera, Angel R.: Nothing to Disclose

Pirollo, Joseph M.: Nothing to Disclose

Pizzuti, John A.: Nothing to Disclose

Plachta, Stephen: Nothing to Disclose

Placide, Rick J.: Nothing to Disclose

Plotka, Andrzej T.: Nothing to Disclose

Ploumis, Avraam: Nothing to Disclose

Plow, Ela: Nothing to Disclose

Poelstra, Kornelis A.: Consulting: DePuy Spine (D); Speaking and/or Teaching Arrangements: K2M (C); Trips/Travel: Mazor (B), Benvenue (B).

Pollock, Kim: Nothing to Disclose

Polly, David W.: Trips/Travel: Scoliosis Research Society (B); Board of Directors: Scoliosis Research Society (None).

Poon, Selina: Grants: Ellipse Technologies (D, Paid directly to institution/employer).

Poorman, Gregory W.: Nothing to Disclose

Popovich, John M.: Grants: North American Spine Society (D, Paid directly to institution/employer).

Porchet, Francois: Nothing to Disclose

Porter, Randall W.: Royalties: Stryker (B); Stock Ownership: Biomet (<1%); Private Investments: Biomet (<1%); Consulting: NuVasive (Amount not disclosed); Speaking and/or Teaching Arrangements: NuVasive (Amount not disclosed); Trips/Travel: Biomet (Amount not disclosed); Board of Directors: The Medical Memory (Chairman of the Board); Research Support - Staff and/or Materials: Lanx (B); Grants: Barrow Neurological Institute (E).

Potts, Shannon: Nothing to Disclose

Poulter, Gregory T.: Speaking and/or Teaching Arrangements: NuVasive (C); Research Support - Staff and/or Materials: NuVasive (A).

Pourtaheri, Sina: Nothing to Disclose

Powell, Corey: Nothing to Disclose

Prasad, Priya: Nothing to Disclose

Prasad, Srinivas K.: Royalties: Stryker Spine (A); Consulting: Stryker Spine (D), Medtronic (B); Speaking and/or Teaching Arrangements: Stryker Spine (D), DePuy Synthes (B); Board of Directors: AKOS Health Systems (None); Fellowship Support: AOSpine (E, Paid directly to institution/employer), NREF (E, Paid directly to institution/employer).

Prather, Heidi: Speaking and/or Teaching Arrangements: PM&R (Amount not disclosed, Paid directly to institution/employer); Trips/Travel: North American Spine Society (Amount not disclosed, Paid directly to institution/employer); Board of Directors: North American Spine Society (Past President).

Prebet, Remi: Nothing to Disclose

Presciutti, Steven M.: Nothing to Disclose

Press, Joel M.: Nothing to Disclose

Presson, Angela: Nothing to Disclose

Pritchard, Patrick R.: Relationships Outside the One-Year Requirement: Ulrich Medical (Consulting, A).

Proctor, Ashley L.: Nothing to Disclose

Protopsaltis, Themistocles S.: Consulting: Medtronic (B); Grants: Zimmer Spine (B, Paid directly to institution/employer).

Przybylski, Gregory J.: Stock Ownership: Cigna (<1%); Private Investments: South Jersey CK Leasing (<1%); Speaking and/or Teaching Arrangements: NASS (B), Decision Health (B), Eli Research (B); Trips/Travel: AMA (B); Other Office: Eli Research Advisory Editor (B), Board of Education, WHRHS (President), Cigna Healthcare (F).

Puccio, Steven T.: Nothing to Disclose

Pugely, Andrew J.: Nothing to Disclose

Punsalan, Paolo Antonio R.: Nothing to Disclose

Purkait, Heena: Nothing to Disclose

Puttlitz, Christian M.: Consulting: Medtronic (Amount not disclosed); Grants: Medtronic (D, Paid directly to institution/employer).

Puvanesarajah, Varun: Nothing to Disclose

Puyo, Carlos: Nothing to Disclose

Puzas, J. E.: Nothing to Disclose

Pyun, Joseph S.: Nothing to Disclose

Qian, Bangping: Nothing to Disclose

Qian, Jun: Nothing to Disclose

Qiao, Jun: Nothing to Disclose

Qiu, Yong: Nothing to Disclose

Qu, Zhe: Nothing to Disclose

Quattro, Lauren: Nothing to Disclose

Quinn, John C.: Nothing to Disclose

Quisth, Lena: Nothing to Disclose

Quraishi, Nasir A.: Speaking and/or Teaching Arrangements: Medtronic (B, Paid directly to institution/employer); Trips/Travel: Medtronic (B), MBA (B), AOSpine (A), Baxter (A), Alphatec (B); Research Support - Investigator Salary: Alphatec (E, Paid directly to institution/employer); Research Support - Staff and/or Materials: Medtronic (B, Paid directly to institution/employer); Grants: ESPRC (F, Paid directly to institution/employer); Fellowship Support: Alphatec (D, Paid directly to institution/employer).

Qureshi, Sheeraz A.: Royalties: Zimmer Spine (A); Consulting: Stryker Spine (B), Medtronic Spine (B), Orthofix (B); Speaking and/or Teaching Arrangements: Globus (B), Stryker (B), Medtronic (B); Board of Directors: MTF (B, Paid directly to institution/employer); Scientific Advisory Board: Orthofix (None), Zimmer (None); Other Office: CSRS (Program Committee), NASS (Value Committee), NASS (Evidence Based Guidelines Committee), CSRS (Survey Committee), AAOS (Evaluations Committee); Grants: CSRS (C, Paid directly to institution/employer); Fellowship Support: Globus Medical (E, Paid directly to institution/employer).

Raaen, Laura: Nothing to Disclose

Raberding, Craig: Nothing to Disclose

Racadio, John: Consulting: Philips Healthcare (CCHMC IR Chief).

Racine, Linda: Nothing to Disclose

Radcliff, Kris E.: Royalties: Globus Medical (B), Orthopedic Sciences (A), Altus Spine (A); Consulting: Globus Medical (None), Advance Medical (B), Medtronic Advanced Energy (D), DePuy Spine (B), LDR Spine (None); Board of Directors: Association for Collaborative Spinal Research (None); Scientific Advisory Board: 4 Web Medical (None); Grants: DePuy Synthes (B, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer), Paradigm Spine (B, Paid directly to institution/employer).

Rahm, Mark D.: Royalties: SpineSmith (C); Trips/Travel: Globus (A); Research Support - Staff and/or Materials: K2M (B, Paid directly to institution/employer).

Rahmani, Mohammad Suhrab: Nothing to Disclose

Rahmathulla, Gazanfar: Nothing to Disclose

Rahn, Kevin A.: Stock Ownership: Titan (A).

Raines, Andrew: Nothing to Disclose

Raja, Ali I.: Nothing to Disclose

Rajabian, Ali: Nothing to Disclose

Rajaram Manoharan, Sakthivel Rajan: Nothing to Disclose

Rajasekaran, Shanmuganathan: Nothing to Disclose
 Rajeh, Mona: Nothing to Disclose
 Rajpal, Sharad: Consulting: Medtronic (C).
 Ramachandran, Subbu: Nothing to Disclose
 Ramakrishnan, Rakesh: Nothing to Disclose
 Raman, Tina: Nothing to Disclose
 Ramana, P V: Nothing to Disclose
 Ramchand, Minakshi: Nothing to Disclose
 Ramchandran, Subaraman: Nothing to Disclose
 Ramji, Alim: Nothing to Disclose
 Rampal, Virginie: Nothing to Disclose
 Rampersaud, Raja Y.: Consulting: Medtronic - Spine (D); Scientific Advisory Board: Surgical Navigation Technologies (B).
 Rana, Rasel: Nothing to Disclose
 Rand, Scott D.: Consulting: Imaging Biometrics (Medical Advisory Board).
 Randolph, Julie M.: Nothing to Disclose
 Rane, Ajinkya: Nothing to Disclose
 Rao, Abhay: Nothing to Disclose
 Rao, Sandesh: Nothing to Disclose
 Rappard, George: Stock Ownership: Southern California Injury Treatment Network (30%), Miracle Mile Outpatient Surgery Center (2%).
 Raslan, Ahmed: Nothing to Disclose
 Raspaud, Sylvie: Nothing to Disclose
 Rastegar, Farbod: Nothing to Disclose
 Rathjen, Karl E.: Stock Ownership: Mati Therapeutics (<1%); Consulting: K2M (None); Board of Directors: LLRS (None), POSNA (None), SRS (None); Other: CORR (None), JPO (None), Spine (None).
 Ratliff, John: Royalties: Stryker Spine (B); Consulting: Stryker Spine (D); Scientific Advisory Board: NeuroPoint Alliance N2QOD (None); Other Office: AANS/CNS (None); Research Support - Staff and/or Materials: Orthopedic Research and Education Foundation (E, Paid directly to institution/employer); Grants: AHRQ (E, Paid directly to institution/employer).
 Rau, Daniel: Nothing to Disclose
 Rauck, Ryan: Nothing to Disclose
 Raudenbush, Brandon L.: Nothing to Disclose
 Rauschmann, Michael: Consulting: Biomet (Amount not disclosed), Aesculap (Amount not disclosed), DePuy Spine (Amount not disclosed), Spontech (Amount not disclosed), Paradigm Spine (Amount not disclosed), Medacta (Amount not disclosed); Speaking and/or Teaching Arrangements: Biomet (Amount not disclosed), Aesculap (Amount not disclosed), DePuy Spine (Amount not disclosed), Spontech (Amount not disclosed), Paradigm Spine (Amount not disclosed), Medacta (Amount not disclosed); Trips/Travel: Iomet (Amount not disclosed), Aesculap (Amount not disclosed), DePuy Spine (Amount not disclosed), Spontech (Amount not disclosed), Paradigm Spine (Amount not disclosed), Medacta (Amount not disclosed); Scientific Advisory Board: Iomet (A), Aesculap (A), DePuy Spine (A), Spontech (A), Paradigm Spine (A), Medacta (A); Research Support - Investigator Salary: Paradigm Spine (A, Paid directly to institution/employer); Research Support - Staff and/or Materials: Paradigm Spine (A).
 Raut, PhD, Vivek: Nothing to Disclose
 Ray, Wilson Z.: Consulting: Ulrich Medical (B), Globus (B); Speaking and/or Teaching Arrangements: DePuy/Synthes Spine (C); Scientific Advisory Board: In Vivo (B).
 Reah, Christopher J.: Stock Ownership: NuVasive (<1%); Other Office: NuVasive (Amount not disclosed).

Reaston, MaryRose: Stock Ownership: Emerge Diagnostics (4%); Scientific Advisory Board: Emerge Diagnostics (None); Other Office: CSO (Amount not disclosed).

Rebholz, Brandon J.: Nothing to Disclose

Record, Nicole: Nothing to Disclose

Redding, Greg: Trips/Travel: UpToDate Section Editor (C).

Reddy, Deepak: Nothing to Disclose

Reddy, Kesava K.: Nothing to Disclose

Reddy, Sundara: Nothing to Disclose

Reed, Michael L.: Nothing to Disclose

Reeves, N. Peter: Nothing to Disclose

Regev, Gilad J.: Speaking and/or Teaching Arrangements: Medtronic (B, Paid directly to institution/employer); Trips/Travel: Medtronic (B, Paid directly to institution/employer).

Reichl, Michael: Relationships Outside the One-Year Requirement: Asklepios Kliniken Hamburg GmbH (Research Support: Staff and/or Materials, Dissolved 10/2012, D).

Reid, Manney: Nothing to Disclose

Reid, Patrick: Nothing to Disclose

Reigrut, Julie L.: Other Office: K2M (Salary).

Reihani Kermani, Hamed: Nothing to Disclose

Reinsel, Tom E.: Other: AAOS (None), Spine--Lippincott (None), NASS (LBP Guideline Committee), NASS (None).

Reis, Tina: Nothing to Disclose

Reiser, Elizabeth: Nothing to Disclose

Reiter, Mitchell F.: Private Investments: CreOsso (4%).

Reitman, Charles A.: Board of Directors: North American Spine Society (Research Council Director); Trips/Travel: North American Spine Society (Amount not disclosed); Scientific Advisory Board: Clinical Orthopedics and Related Research (Deputy Editor, B, Paid directly to institution/employer).

Ren, Hui: Nothing to Disclose

Ren, Yuan: Nothing to Disclose

Rencus, Tal: Nothing to Disclose

Rendon, Diego: Nothing to Disclose

Repko, Martin: Speaking and/or Teaching Arrangements: Medtronic (Amount not disclosed, Paid directly to institution/employer), Zimmer Biomet (Amount not disclosed, Paid directly to institution/employer).

Research Group, FOCOS Spine: Nothing to Disclose

Resnick, Daniel K.: Board of Directors: North American Spine Society (Second Vice President).

Revella, Jan: Nothing to Disclose

Reyes, Phillip: Nothing to Disclose

Reynolds, James B.: Royalties: NuVasive (B); Stock Ownership: Alphatec (<1%), NuVasive (2500 Shares).

Reynolds, Jeremy J.: Consulting: Globus (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: AOSpine (B); Trips/Travel: NuVasive (A); Fellowship Support: DePuy Synthes (D, Paid directly to institution/employer).

Reza, Tara: Nothing to Disclose

Rhea, Evan: Nothing to Disclose

Rhee, John M.: Royalties: Biomet Spine (D); Stock Ownership: Phygen/Alphatec (<1%); Consulting: DePuy Synthes Spine (B); Speaking and/or Teaching Arrangements: Zimmer Spine (C); Board of Directors: CSRS (Research Committee Chairman); Other: Lippincott (B).

Rhines, Laurence D.: Speaking and/or Teaching Arrangements: Stryker (Amount not disclosed), Globus (Amount not disclosed).

Richardson, William J.: Consulting: DePuy/ Synthes (A); Speaking and/or Teaching Arrangements: DePuy Spine (A, Paid directly to institution/employer), Spine Wave (A, Paid directly to institution/employer), Brainlab (B, Paid directly to institution/employer); Scientific Advisory Board: Spine Wave (A, Paid directly to institution/employer).

Rienmueller, Anna: Nothing to Disclose

Riew, K. Daniel: Royalties: Biomet (F), Osprey (C), Medtronic Sofamor Danek (G), Medyssey (A); Stock Ownership: Osprey (<1%), Expanding Orthopedics (< 1%), Spineology (< 0.1%), Spinal Kinetics (<1%), Nexgen Spine (<1%), Amedica (<1%), VertiFlex (<1%), Benvenue (<1%), Paradigm Spine (<1%), PSD (<1%), Medyssey (None); Trips/Travel: Broad water (Amount not disclosed), Selby Spine (Amount not disclosed), Scoliosis Research Society (Amount not disclosed), North American Spine Society (Amount not disclosed), DePuy Synthes (Amount not disclosed); Board of Directors: Cervical Spine Research Society (Amount not disclosed), AOSpine (E), Spine Journal (Amount not disclosed); Research Support - Staff and/or Materials: AOSpine (B, Paid directly to institution/employer), Spinal Dynamics/Medtronic (C, Paid directly to institution/employer), Cerapedics (A, Paid directly to institution/employer); Fellowship Support: AOSpine (E, Paid directly to institution/employer); Other: Various entities (Financial, E).

Rigaud, Manuela C.: Nothing to Disclose

Righesso Neto, Orlando: Nothing to Disclose

Rihn, Jeffrey A.: Consulting: Pfizer (B).

Riley, Frank: Nothing to Disclose

Riley, Stephanie: Nothing to Disclose

Ringel, Florian: Consulting: Brainlab (B), SIGNUS (B); Speaking and/or Teaching Arrangements: SIGNUS (B), Medtronic (B), AOSpine (B), Ulrich (B), Brainlab (B); Research Support - Staff and/or Materials: Medtronic (C).

Ris, Hans-Beat: Nothing to Disclose

Risica, Patricia: Nothing to Disclose

Rittenberg, Joshua D.: Speaking and/or Teaching Arrangements: Spine Intervention Society (Amount not disclosed); Trips/Travel: Spine Intervention Society (B); Board of Directors: Spine Intervention Society (None).

Ritter, Lauren: Nothing to Disclose

Riva, Marco: Nothing to Disclose

Rivera Paz, Marlon Javier: Nothing to Disclose

Robbins, Daniel S.: Nothing to Disclose

Roberts, Timothy T.: Royalties: McGraw Hill Medical (A).

Robertson, Iain: Nothing to Disclose

Robinson, Chessie: Nothing to Disclose

Rocca, Carlos: Nothing to Disclose

Roder, Christoph P.: Consulting: Paradigm Spine (B, Paid directly to institution/employer).

Rodgers, Richard B.: Speaking and/or Teaching Arrangements: Medtronic (Amount not disclosed).

Rodrigues, Danieli: Research Support - Staff and/or Materials: University of Texas at Dallas (B, Paid directly to institution/employer); Grants: AAIDF (C).

Rodriguez-Feo, John: Nothing to Disclose

Rodriguez-Martinez, Nestor: Nothing to Disclose

Rogers, Patrick: Nothing to Disclose

Rolfe, Kevin W.: Nothing to Disclose

Rolfe, RenaClayton: Nothing to Disclose

Rong, Xing: Nothing to Disclose

Roonprapunt, Chanland: Nothing to Disclose

Rose, Peter: Consulting: K2M (B); Trips/Travel: K2M (Travel expenses).

Roseen, Eric: Nothing to Disclose

Rosen, Charles D.: Nothing to Disclose

Rosenberg, William S.: Stock Ownership: Spine Wave (<1%); Consulting: Medtronic (C), St. Jude Medical (C), SI-BONE (Amount not disclosed); Scientific Advisory Board: Patient Resource (B); Research Support - Investigator Salary: SI-BONE (B).

Rosenstein, Ben: Nothing to Disclose

Ross, Thomas: Nothing to Disclose

Rossi, Vincent J.: Nothing to Disclose

Roth, Matthew: Nothing to Disclose

Rothman, David: Board of Directors: North American Spine Society (Ethicist); Other Office: Hagens Berman (None), Farrise (None); Relationships Outside the One-Year Requirement: State of Texas/Sheller (Expert witness, Dissolved 03/2012, E).

Rothrock, Nan: Nothing to Disclose

Roubakha, Mikhail: Nothing to Disclose

Roush, Thomas F.: Consulting: NuVasive (None); Speaking and/or Teaching Arrangements: Spine View (D, Paid directly to institution/employer).

Rousset, Marie: Nothing to Disclose

Rowbotham, Emma: Nothing to Disclose

Roybal, Raphael R.: Consulting: K2M (B), Titan Spine (B), Orthofix (B); Speaking and/or Teaching Arrangements: Orthofix (B), Centinel Spine (B); Relationships Outside the One-Year Requirement: NuVasive (Speaking and/or Teaching Arrangement, Dissolved 07/2009, B).

Rubash, Harry: Royalties: Stryker/MAKO (D, Paid directly to institution/employer), Lippincott, Williams and Wilkins (B); Consulting: Access MediQuip (B), Flexion Therapeutics (B); Board of Directors: Hip Society (2nd Vice President).

Rubery, Paul T.: Fellowship Support: AO Foundation (E, Paid directly to institution/employer).

Rump, Travis J.: Nothing to Disclose

Ruoff, Mark J.: Stock Ownership: Caladrius (<1%); Consulting: Amendia (None).

Russell, Robb: Nothing to Disclose

Russo, Glenn S.: Nothing to Disclose

Rustagi, Tarush: Nothing to Disclose

Ruttiman, Roy J.: Nothing to Disclose

Ryaby, James T.: Stock Ownership: Orthofix (<1%); Consulting: Chrysalis BioTherapeutics (Amount not disclosed); Speaking and/or Teaching Arrangements: Orthofix (Amount not disclosed); Trips/Travel: Orthofix (A); Scientific Advisory Board: Chrysalis BioTherapeutics (Amount not disclosed).

Ryan, Devon J.: Nothing to Disclose

Ryu, Samuel: Nothing to Disclose

S S, Shivaprakash: Nothing to Disclose

Saab, Carol: Nothing to Disclose

Saadat, Ehsan: Nothing to Disclose

Sabharwal, Samir: Nothing to Disclose

Sabharwal, Sanjeev: Nothing to Disclose

Sabitzer, Ronald J.: Nothing to Disclose

Sachs, Barton L.: Royalties: Globus Medical (B); Consulting: Globus Medical (None).

Sachs, Violet: Nothing to Disclose.

Sadowski, Katherine: Nothing to Disclose

Safriel, Yair: Nothing to Disclose

Sagy, Iftach: Nothing to Disclose

Saha, Subrata: Nothing to Disclose
Sahai, Nikhil K.: Nothing to Disclose
Sahrmann, Shirley: Nothing to Disclose
Saifi, Comron: Nothing to Disclose
Saigal, Rajiv: Nothing to Disclose
Saiyed, Rehan: Nothing to Disclose
Saiz, Paul: Royalties: Zimmer (A); Consulting: Zimmer (A), Medivest (A); Speaking and/or Teaching Arrangements: Zimmer (A); Trips/Travel: Zimmer (A); Board of Directors: Las Cruces Surgical Center (None).
Sakamoto, Jeffrey: Nothing to Disclose
Salame, Khalil: Nothing to Disclose
Saleh, Ahmed: Nothing to Disclose
Salehi, Khosrowdad: Nothing to Disclose
Salem, Khalid M.: Nothing to Disclose
Saluja, Rajeet S.: Nothing to Disclose
Sama, Andrew A.: Royalties: Ortho Development Corporation (E), DePuy (C); Stock Ownership: Paradigm Spine (<1%), Sentio (<1%); Consulting: Ortho Development (None), Clariance (B), Medtronic (None), DePuy (B); Speaking and/or Teaching Arrangements: DePuy Spine (D); Scientific Advisory Board: Clariance (B); Research Support - Staff and/or Materials: Spinal Kinetics (C, Paid directly to institution/employer), MiMedx (B, Paid directly to institution/employer), Aesculap (A, Paid directly to institution/employer); Fellowship Support: AOSpine (E, Paid directly to institution/employer).
Samdani, Amer F.: Consulting: DePuy Synthes Spine (D), Stryker (C), SpineGuard (B), Zimmer (D), Globus Medical (C).
Sammon, Chris: Nothing to Disclose
Samtani, Sameer: Nothing to Disclose
Samuel, Andre: Nothing to Disclose
Sanchez Chavez, Felix A.: Nothing to Disclose
Sánchez Lite, Israel: Nothing to Disclose
Sandhu, Faheem: Royalties: K2M (C), Custom Spine (B); Consulting: K2M (B), Globus (B), Precision Spine (B); Speaking and/or Teaching Arrangements: SpineArt (B); Trips/Travel: SpineArt (B); Scientific Advisory Board: K2M (B).
Sanford, Timothy: Nothing to Disclose
Sang Ho, Lee: Nothing to Disclose
Sangadala, Sreedhara: Nothing to Disclose
Sankar, Sriram: Stock Ownership: DiFusion (1.5%); Other Office: DiFusion (E).
Sansur, Charles A.: Consulting: Medtronic (B), DePuy Synthes (B); Speaking and/or Teaching Arrangements: Globus (B).
Santaguida, Carlo: Nothing to Disclose
Santomaso, Tyler: Nothing to Disclose
Sardar, Zeeshan: Nothing to Disclose
Sardesai, Neil R.: Nothing to Disclose
Sarwahi, Vishal: Consulting: DePuy Spine (None), Precision Spine (None), Medtronic (B, Paid directly to institution/employer).
Sasani, Mehdi: Nothing to Disclose
Sasso, Rick: Royalties: Medtronic (I); Stock Ownership: Biomet (200,000 Shares); Grants: Medtronic (B, Paid directly to institution/employer).
Sasso, Rick C.: Royalties: Medtronic (I); Board of Directors: Cervical Spine Research Society (None); Research Support - Staff and/or Materials: Medtronic (B, Paid directly to institution/employer),

Cerapedics (E, Paid directly to institution/employer), Smith and Nephew (D, Paid directly to institution/employer).

Sauerwein, Kelly: Nothing to Disclose

Saunders, Susan: Nothing to Disclose

Savage, Jason W.: Consulting: Stryker Spine (B).

Save, Ameya: Nothing to Disclose

Sax, Oliver: Nothing to Disclose

Sayari, Arash: Nothing to Disclose

Sayeed, Yusef: Nothing to Disclose

Scarborough, Nelson L.: Consulting: TheraCell (F).

Scarcella, Nicholas R.: Nothing to Disclose

Schadler, Paul: Nothing to Disclose

Schallmo, Michael S.: Nothing to Disclose

Scheer, Justin K.: Nothing to Disclose

Schell, Ben: Nothing to Disclose

Scheman, Judith: Nothing to Disclose

Schense, Jason: Stock Ownership: Kuros Biosurgery AG (4%, Paid directly to institution/employer); Other Office: Kuros Biosurgery AG (Amount not disclosed); Research Support - Investigator Salary: Kuros Biosurgery AG (B); Research Support - Staff and/or Materials: Kuros Biosurgery (D).

Schildhauer, Thomas A.: Nothing to Disclose

Schlosser, Michael J.: Nothing to Disclose

Schlundt, David: Nothing to Disclose

Schmidt, Gary L.: Consulting: Stryker Spine (None); Speaking and/or Teaching Arrangements: Stryker Spine (None).

Schmidt, John A.: Stock Ownership: K2M (<1%); Trips/Travel: K2M (Amount not disclosed); Other Office: K2M (Amount not disclosed).

Schmidt, Sven: Nothing to Disclose

Schnake, Klaus J.: Consulting: Otto Bock Healthcare (B), Expanding Orthopedics (B), AOSpine International (C), Silony Medical (B); Speaking and/or Teaching Arrangements: DePuy Synthes (B); Research Support - Staff and/or Materials: Otto Bock Healthcare (B, Paid directly to institution/employer).

Schneider, Byron J.: Nothing to Disclose

Schneider, Philip L.: Royalties: Biomet (D); Consulting: Biomet (B); Speaking and/or Teaching Arrangements: Medtronic (None, Paid directly to institution/employer).

Schoell, Kyle: Nothing to Disclose

Schoenecker, Jonathan: Other Office: Pharmaceuticals (B); Research Support - Staff and/or Materials: ISIS Pharmaceuticals (B).

Schoenfeld, Andrew J.: Scientific Advisory Board: The Spine Journal (None); Research Support - Staff and/or Materials: Robert Wood Johnson Foundation (C, Paid directly to institution/employer); Grants: Robert Wood Johnson Foundation Clinical Scholars Program (E, Paid directly to institution/employer); Other: American Academy of Orthopaedic Surgeons (Adult Spine Evaluation Committee).

Schofferman, Jerome: Board of Directors: North American Spine Society (Committee on Ethics & Professionalism Chair).

Schranck, Francine W.: Nothing to Disclose

Schroeder, Gregory D.: Trips/Travel: Medtronic (Amount not disclosed, Paid directly to institution/employer).

Schroeder, Josh E.: Nothing to Disclose

Schroerlucke, Samuel R.: Consulting: NuVasive (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Mazor (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Mazor (B, Paid directly to institution/employer).

Schuster, James M.: Nothing to Disclose

Schwab, Frank J.: Royalties: MSD (D); Stock Ownership: Nemaris (30%); Consulting: MSD (B), K2M (D), Medtronic (D), Zimmer Biomet (D), NuVasive (C); Trips/Travel: Nemaris (B), Medtronic (B), NuVasive (B), K2M (B), Zimmer Biomet (B); Board of Directors: Nemaris (Amount not disclosed); Other Office: CMO (Amount not disclosed); Grants: DePuy Spine (H, Paid directly to institution/employer).

Schwab, Joseph H.: Nothing to Disclose

Schwalb, Jason M.: Nothing to Disclose

Schwartz, David G.: Royalties: Medtronic (B), NuVasive (D); Consulting: Medtronic (B), NuVasive (C); Speaking and/or Teaching Arrangements: Medtronic (A); Board of Directors: The Spine Foundation (None); Fellowship Support: NuVasive (D).

Schwarzkopf, Ran: Stock Ownership: Gauss (<1%); Consulting: Smith & Nephew (Amount not disclosed); Scientific Advisory Board: Intellijoint (Amount not disclosed).

Schwend, Richard: Consulting: Medtronic (B); Trips/Travel: American Academy of Pediatrics (None); Board of Directors: POSNA (None), Miracle Feet (None), Project Perfect World (B).

Schwender, James D.: Royalties: Medtronic (F); Speaking and/or Teaching Arrangements: Medtronic (C); Fellowship Support: Synthes (F), Stryker (F), Medtronic (F).

Sciubba, Daniel M.: Consulting: Medtronic (C, Paid directly to institution/employer), Globus (B), DePuy-Synthes (B).

Sclafani, Joseph A.: Nothing to Disclose

Scott, Chloe: Nothing to Disclose

Scott, Mary: Nothing to Disclose

Scott, Nathan L.: Nothing to Disclose

Scuderi, Gaetano J.: Stock Ownership: Cytonics (37%); Private Investments: K2 Medical (<1%); Board of Directors: Cytonics (Amount not disclosed); Scientific Advisory Board: Cytonics (E); Other Office: Chairman (None).

Sedney, Cara: Nothing to Disclose

Segal, Jeffrey: Nothing to Disclose

Segar, Anand: Nothing to Disclose

Seim, Howard B.: Nothing to Disclose

Sekharappa, Vijay: Nothing to Disclose

Seldomridge, Alex: Nothing to Disclose

Selvarajah, Shalini: Nothing to Disclose

Semaan, Hassan: Nothing to Disclose

Sembrano, Jonathan N.: Board of Directors: Society of Lateral Access Surgeons (SOLAS) (None), Philippine Minnesota Medical Association (PMMA) (None), University of the Philippines Alumni of Minnesota (UPAM) (None).

Seme, Steven J.: Consulting: K2M (B), Kspine (B).

Sencan, Savas: Nothing to Disclose

Senes, Filippo: Nothing to Disclose

Seng, Chusheng: Nothing to Disclose

Sengupta, Dilip K.: Royalties: Globus Medical (D); Stock Ownership: Globus Medical (<1%); Private Investments: International Spine and Orthopaedic Institute (<1%); Consulting: Globus Medical (None); Scientific Advisory Board: Globus Medical (None); Research Support - Staff and/or Materials: Globus Medical (A, Paid directly to institution/employer); Fellowship Support: Globus Medical (A,

Paid directly to institution/employer); Other: Globus Medical (Amount not disclosed, Paid directly to institution/employer).

Seo, Hyoung-Yeon: Nothing to Disclose

Seo, Jun-Yeong: Nothing to Disclose

Seong, Ji-hoon: Nothing to Disclose

Sepucha, Karen: Trips/Travel: Informed Medical Decisions Foundation/Healthwise (B); Scientific Advisory Board: Vital Decisions (A); Research Support - Investigator Salary: Informed Medical Decisions Foundation/Healthwise (C, Paid directly to institution/employer); Research Support - Staff and/or Materials: Informed Medical Decisions Foundation (D, Paid directly to institution/employer); Grants: Gordon and Betty Moore Foundation (F, Paid directly to institution/employer).

Serhan, Hassan A.: Consulting: DePuy Synthes Spine (Salary); Other Office: DePuy Synthes Spine (Salary).

Sestokas, Anthony K.: Stock Ownership: SpecialtyCare (<1%); Other Office: SpecialtyCare (F).

Sethi, Rajiv K.: Speaking and/or Teaching Arrangements: NuVasive (B, Paid directly to institution/employer); Trips/Travel: Orthofix (B).

Seyler, Thorsten: Nothing to Disclose

Sfreddo, Ericson: Nothing to Disclose

Shafa, Eiman: Nothing to Disclose

Shaffrey, Christopher I.: Royalties: Medtronic (F), NuVasive (F), Biomet (F); Stock Ownership: NuVasive (5000 Shares); Consulting: Biomet (B), NuVasive (B); Speaking and/or Teaching Arrangements: NuVasive (B); Trips/Travel: Medtronic (B); Board of Directors: American Board of Neurological Surgery (None), American Board of Neurological Surgeons (None), Cervical Spine Research Society (None); Endowments: John A Jane Professor (E, Paid directly to institution/employer); Research Support - Investigator Salary: NIH (B, Paid directly to institution/employer); Grants: Department of Defense (F, Paid directly to institution/employer); Fellowship Support: AO (E, Paid directly to institution/employer), NREF (E, Paid directly to institution/employer).

Shaffrey, Mark E.: Speaking and/or Teaching Arrangements: Medtronic (B).

Shah, Dina: Nothing to Disclose

Shah, Harsh: Nothing to Disclose

Shah, Kalpit N.: Nothing to Disclose

Shah, Lubdha M.: Nothing to Disclose

Shah, Neel: Nothing to Disclose

Shah, Rajesh R.: Nothing to Disclose

Shah, Suken A.: Royalties: DePuy Spine (F); Stock Ownership: Globus Medical (<1%); Consulting: DePuy Spine (E); Speaking and/or Teaching Arrangements: DePuy Spine (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Setting Scoliosis Straight Foundation (E, Paid directly to institution/employer).

Shalabi, Saggah Tarek: Nothing to Disclose

Shamji, Mohammed F.: Consulting: Medtronic (Amount not disclosed); Speaking and/or Teaching Arrangements: Medtronic (Amount not disclosed); Research Support - Staff and/or Materials: AOSpine NA (D, Paid directly to institution/employer); Grants: Canadian Pain Society (D, Paid directly to institution/employer).

Shammas, Ronnie: Nothing to Disclose

Shankar, Jai: Nothing to Disclose

Shannon, Jackilen: Nothing to Disclose

Sharan, Alok D.: Consulting: Paradigm Spine (B); Other: Jaypee Brothers (A).

Sharf, Tamara: Nothing to Disclose

Shariati, Babak: Nothing to Disclose

Shariff, Sohail: Nothing to Disclose

Sharma, Akshay: Nothing to Disclose
Sharma, Anil K.: Nothing to Disclose
Sharma, Sourabh: Nothing to Disclose
Shaw, Jeremy D.: Consulting: Ceterix Orthopaedics (B); Grants: OREF (B, Paid directly to institution/employer); Other: Google Project MD (B).
Shea, Kevin G.: Consulting: Health Trust (B); Board of Directors: American Academy of Ortho Surgery (Evidence Based Quality, Value Committee); Other Office: POSNA (Quality Safety Value Committee).
Sheets, Charles: Nothing to Disclose
Sheha, Evan: Nothing to Disclose
Shein, Daniel: Nothing to Disclose
Shen, Francis H.: Royalties: Elsevier (B), Globus Medical (D); Consulting: Medtronic (B), DePuy Synthes (B); Board of Directors: MTF (B); Scientific Advisory Board: Axsome (A); Other Office: AO Foundation (Grant Reviewer), CSRS (Executive Board); Fellowship Support: AO Foundation (D, Paid directly to institution/employer); Other: Spine Journal (Deputy Editor), European Spine Journal (Editor), SPINE (Editor).
Shenoy, Kartik: Nothing to Disclose
Shetty, Teena: Scientific Advisory Board: GE NFL Medical Advisory Board (B); Research Support - Investigator Salary: GE (G, Paid directly to institution/employer); Research Support - Staff and/or Materials: Abbott (F, Paid directly to institution/employer); Grants: GE (G, Paid directly to institution/employer).
Sheyn, Dmitriy: Nothing to Disclose
Shi, Peng: Nothing to Disclose
Shi, Zhiyue: Nothing to Disclose
Shiban, Ehab: Nothing to Disclose
Shiban, Youssef: Nothing to Disclose
Shiels, Stefanie M.: Nothing to Disclose
Shifflett, Grant: Nothing to Disclose
Shih, Yushane: Nothing to Disclose
Shim, John H.: Nothing to Disclose
Shim, Stephanie: Nothing to Disclose
Shimada, Yoichi: Nothing to Disclose
Shimer, Adam L.: Consulting: Medtronic (B), NuVasive (B); Speaking and/or Teaching Arrangements: Biomet (B).
Shin, Byung-Joon: Nothing to Disclose
Shin, John H.: Nothing to Disclose
Shin, John I.: Nothing to Disclose
Shin, Myung-Hoon: Nothing to Disclose
Shin, Sang-Hoon: Nothing to Disclose
Shiu, Brian: Research Support - Staff and/or Materials: DePuy Synthes (A, Paid directly to institution/employer).
Shivers, Jennifer J.: Nothing to Disclose
Shonnard, Neal H.: Royalties: Globus Medical (B).
Shoreman, Danielle: Nothing to Disclose
Shucosky, Erin: Research Support - Staff and/or Materials: Globus Medical (B, Paid directly to institution/employer), NuVasive (E, Paid directly to institution/employer).
Shue, Jennifer: Nothing to Disclose
Shulev, Yury: Nothing to Disclose
Sia, David: Nothing to Disclose

Siddiqui, Farzan: Nothing to Disclose

Siddiqui, Mashfiqul A.: Nothing to Disclose

Sides, Brenda A.: Nothing to Disclose

Sielatycki, John A.: Nothing to Disclose

Siemionow, Krzysztof B.: Royalties: Amedica (A); Stock Ownership: Teraphysics (10000 Shares), Providence Medical Technologies (<1%), Verteks Medical Corporation (45%); Consulting: DePuy (B); Speaking and/or Teaching Arrangements: DePuy (B), Globus (B); Trips/Travel: Providence Medical Technologies (A); Board of Directors: Verteks Medical (None); Scientific Advisory Board: Providence Medical Technologies (None); Research Support - Investigator Salary: DePuy (D, Paid directly to institution/employer).

Siewerdsen, Jeffrey H.: Royalties: Elekta Oncology (E), Carestream Health (E); Consulting: Carestream Health (None); Scientific Advisory Board: Carestream Health (None); Research Support - Investigator Salary: Siemens Healthcare (C); Research Support - Staff and/or Materials: Siemens Healthcare (D); Grants: Siemens Healthcare (D), Carestream Health (E).

Sikorski, Christian W.: Consulting: K2M (B).

Silva, Francisco: Nothing to Disclose

Silva, Matthew: Royalties: Springer (A); Speaking and/or Teaching Arrangements: Amgen (B); Trips/Travel: Amgen (B); Grants: Merck (E).

Silverberg, Arnold: Nothing to Disclose

Silverstein, Michael P.: Nothing to Disclose

Sim, Emma: Nothing to Disclose

Sim, Shaoen David: Nothing to Disclose

Simela, Ashley T.: Nothing to Disclose

Simmonds, Andrea M.: Nothing to Disclose

Simmons, Leigh: Speaking and/or Teaching Arrangements: American Diabetes Association (A, Paid directly to institution/employer); Trips/Travel: American Diabetes Association (A, Paid directly to institution/employer).

Simon, Akil P.: Nothing to Disclose

Simon, April W.: Nothing to Disclose

Simony, Ane: Nothing to Disclose

Simpson, Kathy J.: Research Support - Staff and/or Materials: Scoliosis Research Society (B, Paid directly to institution/employer); Grants: Arthrex (B, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Scoliosis Research Society (Grant, Dissolved 01/2915, B).

Sing, David: Nothing to Disclose

Singer, Miles L.: Nothing to Disclose

Singh, Anoushka: Nothing to Disclose

Singh, Devender: Nothing to Disclose

Singh, Kern: Royalties: Stryker (C), Jaypee Publishing (B), Thieme (C), Lippincott (C), Pioneer (B), Zimmer (B); Consulting: Stryker Spine (B), DePuy (B), Zimmer (C), Globus (C), Pioneer Surgical (B); Board of Directors: Vital 5 (Board Member), Indo-American Spine Alliance (Board Member), TruVue Surgical (Board Member), Avaz Surgical (Board Member); Other Office: J Contemporary Spine Surgery (Editor-in-Chief), Spine Surgery Today (Editorial Board), Journal of Orthopedics (Editorial Board).

Singh, Rumit: Nothing to Disclose

Singh, Sameer: Nothing to Disclose

Singh, Vaneet: Other Office: Medtronic (Amount not disclosed).

Singh, Varun K.: Nothing to Disclose

Singh, Vishwajeet: Nothing to Disclose

Singhatanadgige, Weerasak: Nothing to Disclose

Singla, Anuj: Nothing to Disclose

Sinha, Aman: Nothing to Disclose

Sinha, Kumar G.: Consulting: SpineArt (None).

Sinkemani, Arjun: Nothing to Disclose

Sirvanci, Mustafa: Nothing to Disclose

Sis, Hadley L.: Nothing to Disclose

Siskey, Ryan L.: Nothing to Disclose

Sitzman, Todd: Nothing to Disclose

Sivaganesan, Ahilan: Nothing to Disclose

Skalli, Wafa: Trips/Travel: EOS Imaging (Travel expenses); Grants: ParisTech Foundation (F, Paid directly to institution/employer).

Skelly, Andrea C.: Nothing to Disclose

Skipor, Anastasia K: Research Support - Investigator Salary: Medtronic (C, Paid directly to institution/employer).

Skolasky, Richard L.: Grants: AT&T Foundation (C, Paid directly to institution/employer).

Skovrlj, Branko: Nothing to Disclose

Skulason, Halldor: Nothing to Disclose

Slaven, Sean: Nothing to Disclose

Slosar, Paul J.: Royalties: Titan Spine (D); Stock Ownership: Titan Spine (<1%), DFINE (<1%), Relievant (<1%); Consulting: Relievant (A); Other Office: Titan Spine (E, Medical Director).

Smith, Brandon: Nothing to Disclose

Smith, Brian G.: Other: American Academy of Orthopaedic Surgeons (None).

Smith, Caleb: Nothing to Disclose

Smith, Clark: Nothing to Disclose

Smith, Harvey E.: Consulting: Globus Spine (B), Pacira Pharmaceuticals (A); Trips/Travel: NuVasive (A); Other: DePuy Spine (None), Orthofix (None); Relationships Outside the One-Year Requirement: Stryker Spine (Trips/Travel, Dissolved 01/2010, A).

Smith, Jacob: Nothing to Disclose

Smith, Jeremy S.: Royalties: SpineArt (A); Consulting: NuVasive (B); Speaking and/or Teaching Arrangements: NuVasive (B); Fellowship Support: NuVasive (A).

Smith, Justin S.: Royalties: Biomet (C); Consulting: Biomet (C), K2M (B), NuVasive (B), Cerapedics (B); Grants: DePuy Synthes (B, Paid directly to institution/employer); Fellowship Support: AO (E, Paid directly to institution/employer), NREF (E, Paid directly to institution/employer).

Smith, Matthew J.: Consulting: Inflexxion (A, Paid directly to institution/employer).

Smith, Michael: Speaking and/or Teaching Arrangements: Globus Medical (B).

Smith, Monica: Nothing to Disclose

Smith, William D.: Royalties: NuVasive (D); Stock Ownership: NuVasive (<1%); Consulting: NuVasive (C), SpineGuard (A), Providence Medical Technologies (A), SI-BONE (A); Speaking and/or Teaching Arrangements: NuVasive (Amount not disclosed), SI-BONE (A), Providence Medical Technologies (A); Trips/Travel: NuVasive (B); Board of Directors: SOLAS (Vice President); Scientific Advisory Board: NuVasive (Board Member); Research Support - Investigator Salary: NuVasive (A, Paid directly to institution/employer); Research Support - Staff and/or Materials: NuVasive (B, Paid directly to institution/employer).

Smuck, Matthew: Stock Ownership: NuSpine (<1%), BlueJay Mobile-Health (<1%); Private Investments: Vivametrika / Sikoya (20%); Trips/Travel: Spine Intervention Society (B), North American Spine Society (B); Board of Directors: Vivametrika/Sikoya (None), Spine Intervention Society (None), North American Spine Society (At Large Member); Scientific Advisory Board: NuSpine (Amount not disclosed), Lumo Body Tech (Amount not disclosed), BlueJay Mobile-Health (Amount not disclosed);

Other Office: The Spine Journal (Deputy Editor), Spine Intervention Society (Board of Directors), North American Spine Society (Board of Directors); Other: Expert Witness - State Farm (F), Expert Witness - Kaiser Permanente (C); Relationships Outside the One-Year Requirement: Cytonics (Research Support: Staff and/or Materials, Dissolved 12/2013, F).

Smucker, Joseph D.: Consulting: Theorem Clinical Research (None), Back Bay Life Science Advisors (A).

Sneag, Darryl: Other: General Electric Healthcare (Amount not disclosed).

Snodgrass, Jeff: Nothing to Disclose

Snodgrass, Suzanne: Nothing to Disclose

Snyder, Brian: Nothing to Disclose

Sobol, Garret: Nothing to Disclose

Söderman, Michael: Royalties: Neuravi (C); Stock Ownership: Blockade Medical (7500 stock options); Consulting: SLL (B).

Sodhi, Sumeet: Nothing to Disclose

Soffin, Ellen: Nothing to Disclose

Sohn, Seil: Nothing to Disclose

Sokunbi, Gbolabo O.: Nothing to Disclose

Sola, Rodrigo: Nothing to Disclose

Sola, S.: Nothing to Disclose

Solar, Antonieta: Nothing to Disclose

Solberg, Tore K: Nothing to Disclose

Soliman, Hesham: Nothing to Disclose

Solla, Federico: Trips/Travel: Medicea (A).

Somani, Sulaiman: Nothing to Disclose

Song, Kyung-Jin: Nothing to Disclose

Sorian-Baron, Hector: Nothing to Disclose

Soriano, Morris M.: Nothing to Disclose

Soroceanu, Alexandra: Nothing to Disclose

Sowa, Gwendolyn A.: Royalties: UpToDate (A); Consulting: Advantage Healthcare (A); Board of Directors: Association of Academic Physiatrists (Member of Board of Trustees); Other Office: Association of Academic Physiatrists (Research Committee), American Academy of Physical Medicine and Rehabilitation (Evidence Based Practice Committee); Research Support - Investigator Salary: NIH (E, Paid directly to institution/employer), PCORI (E, Paid directly to institution/employer), Foundation for PMR (E, Paid directly to institution/employer), The Pittsburgh Foundation (E, Paid directly to institution/employer), OREF (E, Paid directly to institution/employer); Research Support - Staff and/or Materials: Wings of Life Foundation (D).

Sparrey, Carolyn: Nothing to Disclose

Speech, David: Nothing to Disclose

Spector, Leo R.: Nothing to Disclose

Spiegel, Matthew: Nothing to Disclose

Spiker, W. Ryan: Consulting: Amedica (A), NEXXT Orthopedics (B), Nexus (B); Fellowship Support: AOSpine/DePuy Synthes (E, Paid directly to institution/employer).

Spina, Nicholas: Nothing to Disclose

Spinasant, Susan A.: Nothing to Disclose

Spine Center, UCSF: Nothing to Disclose

Spivak, Jeffrey M.: Royalties: Titan Spine (E); Stock Ownership: Titan Spine (5%), Paradigm Spine (5%); Consulting: Titan Spine (None), DePuy Synthes Spine (B); Scientific Advisory Board: Titan Spine (None).

Splawinski, Aleksander: Research Support - Investigator Salary: Zimmer (D, Paid directly to institution/employer).

Splawinski, Jan: Research Support - Staff and/or Materials: Zimmer Spine (A, Paid directly to institution/employer); Relationships Outside the One-Year Requirement: Zimmer Spine (Research Support: Staff and/or Materials, D).

Sponseller, Paul D.: Royalties: Globus Spine (B), DePuy Synthes Spine (E); Consulting: DePuy Spine (B); Speaking and/or Teaching Arrangements: DePuy Spine (None); Trips/Travel: DePuy Synthes Spine (A); Board of Directors: Scoliosis Research Society (None); Research Support - Staff and/or Materials: DePuy Synthes Spine (C); Grants: DePuy Synthes Spine (C); Fellowship Support: OREF (E).

Spoonamore, Mark J.: Nothing to Disclose

Spratt, Kevin F.: Nothing to Disclose

Spritzer, Charles: Nothing to Disclose

Srinivasa, Reddy: Nothing to Disclose

St Louis, Phillip G.: Nothing to Disclose

Stadlan, Noam: Relationships Outside the One-Year Requirement: Johnson & Johnson/DePuy (Consulting, Dissolved 01/2007, A), Arcus/TFAS (Research Support: Staff and/or Materials, Dissolved 08/2009, A).

Stadler, Chris: Nothing to Disclose

Stafford, David: Nothing to Disclose

Stake, Seth: Nothing to Disclose

Stammen, Kari: Nothing to Disclose

Stanhope, Kimber: Nothing to Disclose

Stappenbeck, Frank: Stock Ownership: MAX BioPharma (<1%); Other Office: MAX BioPharma (Salary).

Stawicki, Christie: Nothing to Disclose

Stazzone, Enrico J.: Consulting: ISTO Technologies (B), DePuy Spine (A).

Stecken, Jean: Nothing to Disclose

Steel, Laura: Nothing to Disclose

Steelman, Theodore: Nothing to Disclose

Steger-May, Karen: Nothing to Disclose

Steib, Jean-Paul: Royalties: Alphatec (C), LDR (D), Medtronic (B, Paid directly to institution/employer); Consulting: Alphatec (B), Clariance (C); Speaking and/or Teaching Arrangements: Stryker (B, Paid directly to institution/employer), Alphatec (B, Paid directly to institution/employer), LDR (Amount not disclosed), Alphatec (Amount not disclosed), Clariance (Amount not disclosed); Trips/Travel: LDR (Amount not disclosed), Alphatec (Amount not disclosed), Clariance (Amount not disclosed); Scientific Advisory Board: Clariance (B); Endowments: Alphatec (B, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer); Fellowship Support: Alphatec (B, Paid directly to institution/employer).

Stein, Dan: Nothing to Disclose

Steinberger, Jeremy: Nothing to Disclose

Steiner, Craig D.: Nothing to Disclose

Steinmetz, Michael P.: Royalties: Biomet Spine (C); Consulting: Biomet Spine (A), Intellirod (None), DePuy Synthes (C), Stryker Spine (B); Speaking and/or Teaching Arrangements: Synthes Spine (A); Board of Directors: Congress of Neurological Surgeons (Ex Officio Member of the Executive Committee); Scientific Advisory Board: Intellirod (B); Relationships Outside the One-Year Requirement: Stryker Spine (Speaking and/or Teaching Arrangement, Dissolved 01/0110, B).

Stemper, Brian D.: Consulting: Spinal Stabilization Technologies (B); Trips/Travel: Spinal Stabilization Technologies (A); Research Support - Investigator Salary: Beth Israel Deaconess Medical Center from Congressionally Directed Medical Research Funds (E, Paid directly to institution/employer); Research

Support - Staff and/or Materials: Beth Israel Deaconess Medical Center from Congressionally Directed Medical Research Funds (A, Paid directly to institution/employer); Grants: NA (A, Paid directly to institution/employer).

Stepanenko, Vitaly V.: Nothing to Disclose

Stern, Jack: Nothing to Disclose

Steurer, Johann: Nothing to Disclose

Stevens, Todd: Nothing to Disclose

Stewart, Geoffrey: Royalties: Kalitec Direct (A); Stock Ownership: ORTHOReBIRTH (<1%); Private Investments: One Tray (<1%); Consulting: SeaSpine (C); Speaking and/or Teaching Arrangements: Implanet (B); Scientific Advisory Board: ORTHOReBIRTH (B), My Spine Design (A).

Steyn, Chris: Nothing to Disclose

Stiegman, Glenn A.: Nothing to Disclose

Stiehl, James: Stock Ownership: Surgivision SAS (4.5%); Private Investments: Surgivision NA (65%); Scientific Advisory Board: Surgivision SAS (None), Grenoble France (None); Other: Kinamed (A), Zimmer (C), Innomed (C), The Knee (B).

Stock, Stuart R.: Nothing to Disclose

Stokes, John: Royalties: Genesys Spine (F); Stock Ownership: SMV Scientific (<1%), DiFusion Technologies (75000 stock options); Scientific Advisory Board: DiFusion Technologies (15000 stock options).

Stone, Jeffrey A.: Relationships Outside the One-Year Requirement: Benvenue Medical (Research Support: Staff and/or Materials, Dissolved 07/2012, Coding Committee, Radiology Committee).

Stone, Marcus: Relationships Outside the One-Year Requirement: Medtronic (Consulting, Dissolved 08/2009).

Stone, Michael: Nothing to Disclose

Stonko, David: Nothing to Disclose

Stout, Alison A.: Consulting: State Farm (Amount not disclosed); Speaking and/or Teaching Arrangements: SIS (B), AAPMU (B), AAPMR (Program Planning Committee); Board of Directors: McKenzie Institute USA (A).

Stover, Joshua: Nothing to Disclose

Strelzow, Jason: Nothing to Disclose

Strenge, K. Brandon: Royalties: Zimmer Biomet (A); Private Investments: Vertera (<1%); Consulting: Zimmer Biomet (E); Speaking and/or Teaching Arrangements: Zimmer Biomet (B); Trips/Travel: Zimmer Biomet (B); Research Support - Staff and/or Materials: Zimmer Biomet (B).

Stroh, David: Nothing to Disclose

Strothman, David: Nothing to Disclose

Study Group, International Spine: Grants: DePuy Spine (F, Paid directly to institution/employer), Stryker Spine (E), Medtronic (D, Paid directly to institution/employer), Innovasis (F, Paid directly to institution/employer), Biomet Lanx (D, Paid directly to institution/employer), K2M (F, Paid directly to institution/employer), NuVasive (E, Paid directly to institution/employer).

Stupp, Samuel I.: Nothing to Disclose

Su, Alvin: Nothing to Disclose

Suarez, Paola: Nothing to Disclose

Subramanian, Ashok: Nothing to Disclose

Subramanian, Sangeeta: Nothing to Disclose

Sucato, Daniel J.: Royalties: Globus (A, Paid directly to institution/employer).

Suchman, Kelly: Nothing to Disclose

Sudarshan, Pramod: Nothing to Disclose

Suess, Olaf: Nothing to Disclose

Sugisaki, Keizo: Nothing to Disclose

Sugrue, Patrick A.: Nothing to Disclose

Suh, Paul B.: Royalties: Biomet Spine (C); Consulting: Biomet Spine (B), Amedica (B); Speaking and/or Teaching Arrangements: Lilly (B); Trips/Travel: Biomet Spine (B).

Suk, Kyung-Soo: Nothing to Disclose

Sulaiman, Olawale: Nothing to Disclose

Sullivan, William J.: Board of Directors: North American Spine Society (Secretary); Trips/Travel: North American Spine Society (B).

Summers, Jeffrey T.: Stock Ownership: NEVRO (<1%); Board of Directors: First Choice Insurance (None), Spine Intervention Society (SIS) (Board of Directors).

Sun, Mike H.: Research Support - Staff and/or Materials: DePuy (B).

Sun, Minghui: Nothing to Disclose

Sun, Yu: Nothing to Disclose

Sundararaj, Gabriel: Nothing to Disclose

Sundararajan, Kala: Nothing to Disclose

Suresh, Visakha: Nothing to Disclose

Susuki, Keiichiro: Nothing to Disclose

Sutterlin, Chester E.: Speaking and/or Teaching Arrangements: K2M (B); Research Support - Staff and/or Materials: K2M (D, Paid directly to institution/employer); Grants: K2M (A, Paid directly to institution/employer).

Suzuki, Akinobu: Nothing to Disclose

Svet, Mark: Nothing to Disclose

Swamy, Ganesh: Consulting: Stryker Spine (B); Speaking and/or Teaching Arrangements: Medtronic (B); Trips/Travel: Stryker (B); Research Support - Investigator Salary: University of Calgary Medical Group (E); Research Support - Staff and/or Materials: Alberta Spine Foundation (B); Grants: Alberta Spine Foundation (C).

Swann, Matthew: Nothing to Disclose

Swartz, Karin R.: Speaking and/or Teaching Arrangements: AANS/CNS (A), NASS (A).

Sweeney, Thomas M.: Royalties: Alphatec (B), Ortho Development (B), NuVasive (C), Alpine Spine (F); Stock Ownership: Celtic Biodevices (60%); Consulting: Mazor (C).

Swinney, Christian: Nothing to Disclose

Swisher, Laura L.: Nothing to Disclose

Syrimpeis, Vasilios: Nothing to Disclose

Szpalski, Marek: Private Investments: Hyprevention (16%); Consulting: Nanovis (B), LFC (None); Speaking and/or Teaching Arrangements: Integra (None); Board of Directors: Hyprevention (None); Scientific Advisory Board: Nanovis (A); Grants: Fondation Roi Baudouin (D, Paid directly to institution/employer).

Tabaraee, Ehsan: Nothing to Disclose

Tachibana, Toshiya: Nothing to Disclose

Tailor, Puneet: Nothing to Disclose

Takahashi, Shinji: Nothing to Disclose

Takahashi, Takashi: Nothing to Disclose

Takeshita, Katsushi: Speaking and/or Teaching Arrangements: Pfizer (B, Paid directly to institution/employer), Johnson & Johnson (B, Paid directly to institution/employer), Medtronic Sofamor Danek (B), Stryker (A, Paid directly to institution/employer).

Takeuchi, Daisaku: Nothing to Disclose

Takeuchi, Kazuhiro: Nothing to Disclose

Talbot, Rett: Nothing to Disclose

Talbot, Rettig: Nothing to Disclose

Taleghani, Christopher K.: Royalties: SeaSpine (D); Consulting: SeaSpine (B); Speaking and/or Teaching Arrangements: SI-BONE (B).

Tallarico, Richard A.: Consulting: Stryker Spine (D); Research Support - Staff and/or Materials: DePuy Spine (C, Paid directly to institution/employer), VertiFlex (B, Paid directly to institution/employer).

Tamai, Koji: Nothing to Disclose

Tan, Gamaliel: Nothing to Disclose

Tan, Seang Beng: Nothing to Disclose

Tanaka, Sakae: Nothing to Disclose

Tanaka, Tomoko: Nothing to Disclose

Taneichi, Hiroshi: Device or Biologic Distributorship (Physician-Owned Distributorship): Robert-Reid (E); Consulting: Century Medical (G, Paid directly to institution/employer).

Tanenbaum, Joseph E.: Nothing to Disclose

Tang, Tian-Si: Nothing to Disclose

Tangen, Kevin: Nothing to Disclose

Tanimoto, Katsumasa: Nothing to Disclose

Tannoury, Chadi: Nothing to Disclose

Tannous, Oliver: Nothing to Disclose

Tanzi, Elizabeth: Nothing to Disclose

Tatsumi, Robert L.: Royalties: Globus (D), Medtronic (D), Lanx (E); Consulting: Synthes (B), Medtronic (C); Board of Directors: NW Spine Research Foundation (Secretary); Scientific Advisory Board: NOC2/DC2 (Member).

Tauzell, Ryan A.: Nothing to Disclose

Tay, Bobby: Royalties: Stryker (B); Consulting: Stryker (A); Trips/Travel: Stryker (A); Fellowship Support: NuVasive (D, Paid directly to institution/employer), Globus Medical (E, Paid directly to institution/employer), AOSpine (E, Paid directly to institution/employer).

Taylor, Damian: Nothing to Disclose

Taylor, Lynette: Nothing to Disclose

Taylor, William R.: Royalties: NuVasive (D, Paid directly to institution/employer); Consulting: NuVasive (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: NuVasive (D, Paid directly to institution/employer); Trips/Travel: SMISS (Amount not disclosed); Scientific Advisory Board: Spinovation (Amount not disclosed).

Techy, Fernando: Royalties: Amedica (B); Consulting: Amedica (A, Paid directly to institution/employer), Spine Frontier (A), Solco (A), Grafton Medical (A), Bio Surgical Solutions (A); Speaking and/or Teaching Arrangements: Amedica (A, Paid directly to institution/employer), DePuy Synthes (A, Paid directly to institution/employer), Grafton Medical Alliance (Amount not disclosed, Paid directly to institution/employer), Orthofix (A); Trips/Travel: AAOS (B), AOSpine North America (A), SRS (A).

Teerlink, Craig: Nothing to Disclose

Tekmyster, Gene: Stock Ownership: Surgery Center of Fairfield County (<1%).

Tempel, Zachary: Nothing to Disclose

Templin, Cary R.: Royalties: Pioneer Surgical (B); Private Investments: Vertera (<1%); Consulting: NuVasive (B), Spine Wave (C); Trips/Travel: Globus (A).

Terai, Hidetomi: Nothing to Disclose

Tesdahl, Eric: Other Office: SpecialtyCare (Salary).

Tetreault, Lindsay: Nothing to Disclose

Thakur, Nikhil A.: Consulting: Stryker Spine (C); Speaking and/or Teaching Arrangements: Stryker Spine (C).

Than, Khoi D.: Nothing to Disclose

Thawrani, Dinesh: Other: The Spine Journal (Review of The Spine Journal).

Theiss, Steven M.: Royalties: Biomet Spine (A); Consulting: DePuy Synthes Spine (B), Biomet Biologics (B), Biomet Spine (B); Speaking and/or Teaching Arrangements: AOSpine (B); Fellowship Support: AOSpine North America (E).

Theodore, Nicholas: Royalties: Stryker Spine (B), DePuy Synthes Spine (F); Stock Ownership: Globus Medical (<1%); Consulting: Globus Medical (D), DePuy Synthes (B); Speaking and/or Teaching Arrangements: Globus Medical (B); Scientific Advisory Board: Globus Medical (B); Research Support - Staff and/or Materials: AOSpine (E, Paid directly to institution/employer); Grants: Globus Medical (E, Paid directly to institution/employer); Fellowship Support: Globus Medical (D).

Theodros, Debebe: Nothing to Disclose

Theologis, Alexander A.: Grants: DePuy Synthes (C, Paid directly to institution/employer).

Theyskens, Nina: Nothing to Disclose

Thibaudeau, Daniel: Nothing to Disclose

Thirukumaran, Caroline: Nothing to Disclose

Thome, Claudius: Consulting: Aesculap (B), Signus Medizintechnik (B), DePuy Synthes (B); Speaking and/or Teaching Arrangements: Aesculap (C), Intrinsic Therapeutics (C), Signus Medizintechnik (C), Medtronic (C), DePuy Synthes (C), Ulrich Medical (C); Scientific Advisory Board: Intrinsic Therapeutics (B); Research Support - Staff and/or Materials: Signus Medizintechnik (D, Paid directly to institution/employer), Intrinsic Therapeutics (D, Paid directly to institution/employer), TETEC AG (D, Paid directly to institution/employer); Fellowship Support: Medtronic (D, Paid directly to institution/employer).

Thompson, John: Nothing to Disclose

Thomsen, Kristine: Nothing to Disclose

Thornhill, Beverly: Nothing to Disclose

Thornley, Patrick: Nothing to Disclose

Tian, Yun: Nothing to Disclose

Timko, Michael: Nothing to Disclose

Timko, Michael: Nothing to Disclose

Tipton, George W.: Nothing to Disclose

Tisherman, Robert T.: Nothing to Disclose

Tohamy, Mohamed: Nothing to Disclose

Tohmeh, Antoine: Royalties: NuVasive (F); Stock Ownership: NuVasive (15000 Shares); Consulting: NuVasive (A); Speaking and/or Teaching Arrangements: NuVasive (B); Trips/Travel: NuVasive (Amount not disclosed); Scientific Advisory Board: SOLAS (Amount not disclosed); Research Support - Staff and/or Materials: Spine Research Institute (C, Paid directly to institution/employer).

Toktas, Zafer O.: Nothing to Disclose

Tome-Bermejo, Felix: Nothing to Disclose

Tomecek, Frank: Consulting: Emerge Diagnostics (E); Speaking and/or Teaching Arrangements: Stryker (A); Relationships Outside the One-Year Requirement: LDR (Research Support: Investigator Salary, Dissolved 12/2009, C).

Tomkins-Lane, Christy C.: Nothing to Disclose

Tomlinson, James: Nothing to Disclose

Tontz, William L.: Device or Biologic Distributorship (Physician-Owned Distributorship): Aliphatic (A, Paid directly to institution/employer); Stock Ownership: Phygen (0.6%, Paid directly to institution/employer); Consulting: Medtronic (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: SpineArt (A); Trips/Travel: Stryker (B); Scientific Advisory Board: Medtronic (None).

Toombs, Courtney: Nothing to Disclose

Toribio Calvo, Borja: Nothing to Disclose

Torriani, Martin: Nothing to Disclose

Torstrick, Brennan: Stock Ownership: Vertera Spine (<1%).

Tortolani, P. Justin: Royalties: Globus Medical (E); Consulting: Spineology (B), Innovasis (A); Board of Directors: MedStar Union Memorial Hospital (None); Research Support - Staff and/or Materials: Spineology (B, Paid directly to institution/employer); Grants: Spineology (B).

Toshkezi, Gentian: Nothing to Disclose

Tosteson, Anna: Nothing to Disclose

Toton, John F.: Nothing to Disclose

Towers, Wendy: Nothing to Disclose

Towne, Pamela: Nothing to Disclose

Toy, Jason O.: Nothing to Disclose

Toyoda, Hiromitsu: Nothing to Disclose

Toyone, Tomoaki: Nothing to Disclose

Tracey, Robert W.: Nothing to Disclose

Trammell, Terry R.: Consulting: Medtronic (D), Biomet (C); Speaking and/or Teaching Arrangements: Biomet (None); Other: K2M (None).

Tran, Dong-Phuong: Nothing to Disclose

Travascio, Francesco: Nothing to Disclose

Trenga, Anthony P.: Nothing to Disclose

Trimba, Yuriy: Nothing to Disclose

Tripp, Dean A.: Nothing to Disclose

Tromanhauser, Scott G.: Stock Ownership: Sotaira (<1%); Consulting: Boston Biomedical Associates (B); Board of Directors: New England Baptist Hospital (Board of Trustees Ex Officio Member); Other Office: Controlled Risk Insurance Company (CRICO) (Committee Member).

Tropiano, Patrick: Royalties: LDR (E); Consulting: DePuy Synthes (B); Speaking and/or Teaching Arrangements: AOSpine (A); Trips/Travel: AOSpine DePuy Synthes (A); Scientific Advisory Board: Medtronic (B).

Trost, Zina: Nothing to Disclose

Truumees, Eeric: Royalties: Stryker Spine (C); Stock Ownership: Doctor's Research Group (<1%); Private Investments: IP Evolutions (None); Board of Directors: North American Spine Society (Administration & Development Council Director); Other Office: AAOS Communications Cabinet (Amount not disclosed); Research Support - Investigator Salary: Relevant (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: Globus (B, Paid directly to institution/employer); Other: Stryker Biotech (Amount not disclosed, Paid directly to institution/employer).

Tsai, Timothy: Nothing to Disclose

Tsai, Tsung-Yuan: Nothing to Disclose

Tsai, Wan-Ling: Nothing to Disclose

Tsitsopoulos, Parmenion P.: Nothing to Disclose

Tsou, Hsi-Kai: Nothing to Disclose

Tu, Yuan-Kun: Nothing to Disclose

Tuchman, Alexander: Nothing to Disclose

Tucker, Stewart: Nothing to Disclose

Tumialan, Luis M.: Consulting: Medtronic (B); Other: DePuy Synthes (B).

Tupler, Julie A.: Nothing to Disclose

Turner, Alexander W.: Stock Ownership: NuVasive (<1%); Other Office: NuVasive (Amount not disclosed).

Turner, Jay D.: Nothing to Disclose

Turner, Robert R.: Nothing to Disclose

Turner, Thomas C.: Other: Hey Clinic (D).

Tuschel, Alexander: Nothing to Disclose

Tutton, Sean: Stock Ownership: Benvenue Medical (<1%); Consulting: Benvenue (A); Research Support - Investigator Salary: DFINE (C).

Tyagi, Nishu: Nothing to Disclose

Tye, Erik: Nothing to Disclose

Tyger, Rosemarie: Nothing to Disclose

Tyrakowski, Marcin: Nothing to Disclose

Tzeng, Shiau-Tzu: Nothing to Disclose

Ucar, Bekir Yavuz: Nothing to Disclose

Udan, Jennifer L.: Nothing to Disclose

Ueda, Haruki: Nothing to Disclose

Ukegbu, Ugochi: Nothing to Disclose

Ulusoy, Levent O.: Nothing to Disclose

Umale, Sagar: Nothing to Disclose

Umar, Muhammad: Nothing to Disclose

Urban, Jill: Nothing to Disclose

Urban, Michael: Nothing to Disclose

Uribe, Juan S.: Royalties: NuVasive (G); Stock Ownership: NuVasive (<1%); Consulting: Orthofix (C); Speaking and/or Teaching Arrangements: Orthofix (None); Scientific Advisory Board: NuVasive (D); Research Support - Investigator Salary: NuVasive (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: NuVasive (C, Paid directly to institution/employer); Grants: NuVasive (B, Paid directly to institution/employer); Fellowship Support: NuVasive (D, Paid directly to institution/employer).

Utter, Andrew: Nothing to Disclose

Vaccaro, Alexander R.: Royalties: Elsevier Books (B), Alphatec (C), Jaypee Books (B), Taylor Francis (A), Globus (F), Medtronic (F), Stryker Spine (G); Stock Ownership: Gamma Spine (<1%), Avaz Surgical (Amount not disclosed), Innovative Surgical Design (<1%), ElectroCore (Amount not disclosed), Rothman Institute (3%), Cytonics (Amount not disclosed), Location Based Intelligence (Amount not disclosed), Progressive Spinal Technology (Amount not disclosed), Computational Biodynamics (Amount not disclosed), Stout Medical (<1%), Bonovo Orthopaedics (Amount not disclosed), Flagship Surgical (Amount not disclosed), In Vivo (F), Small Bone Innovations (B), Paradigm Spine (Amount not disclosed), Spinology (Amount not disclosed), Replication Medical (Amount not disclosed), Globus (111,098 Shares), Flow Pharma (Amount not disclosed), Advanced Spinal Intellectual Properties (30%), Spine Medical (Amount not disclosed); Consulting: Gerson Lehrman Group (None), ICON Clinical Research (B), Medtronic (B), Innovative Surgical Design (None), Stout Medical (None), Guidepoint Global (B), MEDAcrop (B), Stryker Spine (C), Globus (C), Ellipse (B), Orthobullets (None); Trips/Travel: Company Sponsored Travel (None); Board of Directors: AOSpine (Amount not disclosed), Association of Collaborative Spine Research (President Emeritus), Innovative Surgical Design (None), Flagship Surgical (None); Other: Employment: Rothman Institute (None), Honorarium for Lectures (None), Clinical Spine Surgery (Editor in Chief).

Vadhva, Mukta: Nothing to Disclose

Vajkoczy, Peter: Consulting: Ulrich Medical (A); Speaking and/or Teaching Arrangements: Barricaid (A); Trips/Travel: Barricaid (A).

Valdes, Mauricio: Nothing to Disclose

Valdesuso, Richard: Other Office: eviCore (Amount not disclosed).

Valladares, Roberto: Nothing to Disclose

Valle, Edison: Nothing to Disclose
Valone, Frank H.: Nothing to Disclose
Van Dijke, Maarten: Nothing to Disclose
Van Dillen, Linda R.: Nothing to Disclose
Van Doren, Bryce: Nothing to Disclose
Van Halm-Lutterodt, Nicholas: Nothing to Disclose
Van Keuren-Jensen, Kendall: Nothing to Disclose
van Vulpen, Marco: Nothing to Disclose
Van Wulfften Palthe, Olivier D.: Nothing to Disclose
Vanaclocha, Vicente: Nothing to Disclose
Vanichkachorn, Jed S.: Royalties: Orthofix (D); Consulting: Amedica (A).
Vanni, Steven: Royalties: NuVasive (E), Globus (C); Consulting: Spine Wave (B); Speaking and/or Teaching Arrangements: DePuy (B).
Vanston, Susan: Nothing to Disclose
Varga, Peter P.: Nothing to Disclose
Varghese, Jeffrey: Nothing to Disclose
Varthi, Arya G.: Nothing to Disclose
Vasquez-Castellanos, Raul A.: Nothing to Disclose
Vasudeva, Viren S.: Nothing to Disclose
Watson, Jayanth: Nothing to Disclose
Vavken, Julia: Nothing to Disclose
Vavken, Patrick: Nothing to Disclose
Vavrek, Darcy: Nothing to Disclose
Vaz De Lima, Marcos: Nothing to Disclose
Veeravagu, Anand: Stock Ownership: Precision Oncology (5%); Private Investments: Precision Oncology (5%); Consulting: Precision Oncology (None); Trips/Travel: DePuy (A), Stryker (A), Brain Lab (A); Scientific Advisory Board: Precision Oncology (None); Fellowship Support: Neurosurgical Research Education Foundation (E, Paid directly to institution/employer).
Vellios, Evan: Nothing to Disclose
Verbeek, Bianca: Nothing to Disclose
Verdu, Francisco: Nothing to Disclose
Vergari, Claudio: Nothing to Disclose
Verla, Terence: Nothing to Disclose
Verma, Kushagra: Nothing to Disclose
Vialle, Raphael: Consulting: Stryker Spine (D); Trips/Travel: Stryker Spine (B), Eos Imaging (B); Research Support - Staff and/or Materials: Eos Imaging (D, Paid directly to institution/employer).
Vicenty, Juan: Nothing to Disclose
Victor, Barocas: Nothing to Disclose
Vidakovic, Ivan: Nothing to Disclose
Vigdorchik, Jonathan: Speaking and/or Teaching Arrangements: Pacira (B).
Vila, Thierry: Stock Ownership: LDR Spine (30000 Shares); Consulting: LDR (F); Speaking and/or Teaching Arrangements: LDR (None); Scientific Advisory Board: LDR (None).
Villavicencio, Alan T.: Device or Biologic Distributorship (Amount not disclosed): Leading Edge Spinal Implants (A); Board of Directors: Justin Parker Neurological Institute (None); Other Office: Boulder Neurosurgical Associates (Amount not disclosed); Research Support - Investigator Salary: ProFibrix (F, Paid directly to institution/employer), Medtronic (F, Paid directly to institution/employer).
Vira, Shaleen: Nothing to Disclose
Virk, Sohrab: Nothing to Disclose

Vital, Jean-Marc: Royalties: LDR EUROS (D); Consulting: GLOBAL S (C).

Vives, Michael J.: Private Investments: Accelalox (<1%), CreOsso (8%), NOC2 (<1%); Speaking and/or Teaching Arrangements: Musculoskeletal Transplant Foundation (B, Paid directly to institution/employer); Other Office: AAOS (AAOS Instructional Course Committee), NASS (Spine Journal Advisory Editorial Board), J of Spinal Cord Medicine (Advisory Editorial Board), NASS (SpineLine Editorial Board); Relationships Outside the One-Year Requirement: Zimmer (Research Support: Staff and/or Materials, Dissolved 12/2009, D).

Vlad, Maria Daniela: Nothing to Disclose

Vleeming, Andry: Nothing to Disclose

Vo, Andrew N.: Nothing to Disclose

Vo, Nam: Nothing to Disclose

Voelker, Anna: Nothing to Disclose

Vogel, Todd: Trips/Travel: American Association of South Asian Neurosurgeon (B, Paid directly to institution/employer); Fellowship Support: NREF (F, Paid directly to institution/employer), AOSpine (F, Paid directly to institution/employer), Cloward Fellowship (F, Paid directly to institution/employer).

Voigt, Niesha: Nothing to Disclose

Volcan, Ildemaro J.: Royalties: Globus Medical (B, Paid directly to institution/employer); Consulting: Boston Scientific (B, Paid directly to institution/employer), NuVasive (C, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Boston Scientific (B, Paid directly to institution/employer), NuVasive (B, Paid directly to institution/employer), Medtronic (B, Paid directly to institution/employer); Scientific Advisory Board: Medtronic (Amount not disclosed, Paid directly to institution/employer).

VonderHoeh, Nicolas Heinz: Nothing to Disclose

Vonica, Alin: Nothing to Disclose

Voronov, Leonard I.: Nothing to Disclose

Vresilovic, Edward J.: Stock Ownership: MASS Modular (25%).

Vuong, Victoria D.: Nothing to Disclose

Vy, John Tuan: Nothing to Disclose

Wachs, Rebecca A.: Nothing to Disclose

Waddell, Bradford S.: Nothing to Disclose

Waddell, Hunter: Nothing to Disclose

Wagg, Kate: Nothing to Disclose

Wagner, Scott: Nothing to Disclose

Wai, Eugene: Nothing to Disclose

Wajchenberg, Marcelo: Nothing to Disclose

Waldorff, Erik I.: Stock Ownership: Orthofix (<1%, Paid directly to institution/employer); Other Office: Orthofix (Salary).

Waldrop, Robert A.: Nothing to Disclose

Walker, Brendon: Nothing to Disclose

Walker, Gregory: Nothing to Disclose

Walker, Kyle: Nothing to Disclose

Wall, Leah: Nothing to Disclose

Wallace, Adam: Trips/Travel: DFINE (A).

Wallace, Charles N.: Nothing to Disclose

Walsh, Kevin M.: Nothing to Disclose

Walsh, Michael J.: Nothing to Disclose

Walsh, William: Private Investments: CIMTECH (<1%); Consulting: Anika Therapeutics (Amount not disclosed, Paid directly to institution/employer), Applied Medical (Amount not disclosed, Paid directly to institution/employer), Biocomposites (Amount not disclosed, Paid directly to institution/employer), Australian Biotech (Amount not disclosed, Paid directly to institution/employer), Zimmer-Biomet (Amount not disclosed, Paid directly to institution/employer), Global Orthopaedics (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Wright Medical (Amount not disclosed); Scientific Advisory Board: CIMTECH (Stock Options); Research Support - Staff and/or Materials: Biocomposites (D, Paid directly to institution/employer), OsteoNovus (C, Paid directly to institution/employer).

Walterscheid, Zakk J.: Nothing to Disclose

Walton, David M.: Speaking and/or Teaching Arrangements: David Walton Rehabilitation Education, Consulting and Research (B); Other Office: International Association for the Study of Pain (IASP Pain Education Special Interest Group Secretary); Grants: Canadian Institutes of Health Research (E, Paid directly to institution/employer).

Wanebo, John: Royalties: Biomet Spine (B); Consulting: Biomet Spine (B).

Wang, Aiguo: Nothing to Disclose

Wang, Biao: Nothing to Disclose

Wang, Bin: Nothing to Disclose

Wang, Chao: Nothing to Disclose

Wang, Dan: Nothing to Disclose

Wang, Dechun: Nothing to Disclose

Wang, Dongliang: Nothing to Disclose

Wang, Haili: Nothing to Disclose

Wang, Huan: Nothing to Disclose

Wang, Jeffrey C.: Royalties: Aesculap (B), Biomet (G), Amedica (C), SeaSpine (D), Synthes (C); Stock Ownership: FzioMed (<1%); Private Investments: Promethean Spine (<1%), Paradigm spine (<1%), Benvenue (<1%), NexGen (<1%), VertiFlex (<1%), ElectroCore (<1%), Surgitech (<1%), CoreSpine (<1%), Expanding Orthopaedics (<1%), Osprey (<1%), Bone Biologics (<1%), Curative Biosciences (<1%), PearlDiver (<1%); Board of Directors: North American Spine Society (Treasurer), North American Spine Foundation (None), Cervical Spine Research Society (Travel expenses), AOSpine/AO Foundation (E); Fellowship Support: AO Foundation (E, Paid directly to institution/employer).

Wang, Justin: Nothing to Disclose

Wang, Michael Y.: Royalties: DePuy Spine (E); Consulting: DePuy Spine (E), Aesculap (B); Speaking and/or Teaching Arrangements: DePuy Spine (D), K2M (b), Joimax (B); Scientific Advisory Board: ISD (None); Grants: Department of Defense (A, Paid directly to institution/employer).

Wang, Shaobai: Nothing to Disclose

Wang, Shenglin: Nothing to Disclose

Wang, Shoufeng: Nothing to Disclose

Wang, Tianyi: Nothing to Disclose

Wang, Timothy Y.: Nothing to Disclose

Wang, Weijun: Nothing to Disclose

Wang, Wenhai: Stock Ownership: Globus Medial (3000 Shares).

Wang, Xu: Other Office: Aalborg University (Amount not disclosed, Paid directly to institution/employer).

Wang, Yingsong: Nothing to Disclose

Wang, Zhidong: Nothing to Disclose

Wang, Zhou: Nothing to Disclose

Wannaratsiri, Nutthee: Nothing to Disclose

Ward, Samuel R.: Research Support - Investigator Salary: National Institutes of Health (F, Paid directly to institution/employer); Research Support - Staff and/or Materials: National Institutes of Health (F, Paid directly to institution/employer); Grants: National Institutes of Health (F, Paid directly to institution/employer).

Watanabe, Kota: Nothing to Disclose

Watkins, Colleen M.: Nothing to Disclose

Watkins, Linda: Nothing to Disclose

Watters, William C.: Royalties: Stryker Corporation (B); Stock Ownership: Intrinsic Therapeutics (<1%); Consulting: Intrinsic Therapeutics (A), Palladian (A); Trips/Travel: Palladian (B), Intrinsic Therapeutics (B), AAOS AUC Committee (A); Board of Directors: American Board of Spine Surgery (Board of Directors), World Spine Care (None), Advisory Board on Guidelines Pattadian (A); Other Office: The Spine Journal (Editorial Advisor Board).

Wauthle, Ruben: Nothing to Disclose

Waxler, Allison: Nothing to disclose.

Webb, Matthew L.: Nothing to Disclose

Webb, Matthew: Nothing to Disclose

Weber, Michael H.: Nothing to Disclose

Wegener, Stephen: Research Support - Investigator Salary: NIH (D, Paid directly to institution/employer); Research Support - Staff and/or Materials: DOD (C, Paid directly to institution/employer); Grants: DOD (C, Paid directly to institution/employer).

Wei, Feng: Nothing to Disclose

Weiner, Bradley K.: Other: Magellan Health Services (A).

Weiner, Joseph A.: Nothing to Disclose

Weiner, Shira S.: Nothing to Disclose

Weinlander, Eric: Nothing to Disclose

Weinstein, Samuel: Nothing to Disclose

Weinstein, Stuart L.: Nothing to Disclose

Weir, Tristan B.: Nothing to Disclose

Weiser, Sherri: Trips/Travel: North American Spine Society (B).

Weiss, Michael C.: Private Investments: Laser Spine Institute (<1%); Other Office: Department of Surgery (Chairman).

Weissmann, Karen: Consulting: Spineway (B); Speaking and/or Teaching Arrangements: Spineway (None); Trips/Travel: Spineway (Travel expenses).

Wells, Alexandra: Nothing to Disclose

Wendell, Emily: Nothing to Disclose

Wendolowski, Stephen: Nothing to Disclose

Weng, Wenjie: Nothing to Disclose

Wenke, Joseph: Nothing to Disclose

Werner, Brian C.: Nothing to Disclose

Werner, Stephanie: Nothing to Disclose

Wertli, Maria M.: Nothing to Disclose

Wessell, Nolan M.: Nothing to Disclose

Wetzel, F. Todd: Stock Ownership: Relievant Medical (<1%); Board of Directors: McKenzie Institute International (B), North American Spine Society (First Vice President).

Whang, Peter G.: Stock Ownership: DiFusion (<1%); Consulting: Stryker Spine (B), SI-BONE (C), Pacira (C), Medtronic (D); Speaking and/or Teaching Arrangements: Stryker (D), Pacira (C), Medtronic (D); Scientific Advisory Board: DiFusion (Stock options), Summus Global (A); Other Office: Cerapedics (B), Relievant (B), Histogenics (B), Paradigm Spine (C); Research Support - Staff and/or Materials:

VertiFlex (A, Paid directly to institution/employer), SI-BONE (A, Paid directly to institution/employer), Spinal Kinetics (A).

Wharton, Nicholas D.: Stock Ownership: Medical Metrics (4%).

White, Andrew P.: Consulting: DePuy (B); Speaking and/or Teaching Arrangements: Globus Medical (B); Scientific Advisory Board: Spine Wave (B).

Wick, Joseph: Nothing to Disclose

Wilartratsami, Sirichai: Nothing to Disclose

Wildi, Lukas: Nothing to Disclose

Willett, Nick: Nothing to Disclose

Williams, George R.: Nothing to Disclose

Williams, Keith D.: Nothing to Disclose

Williams, Richard P.: Nothing to Disclose

Williams, Seth K.: Consulting: DePuy Synthes Spine (D).

Wilp, Christopher: Nothing to Disclose

Wilson, Jefferson: Nothing to Disclose

Wilson, Sara E.: Nothing to Disclose

Winkler, Ethan: Nothing to Disclose

Winnegan, Lona: Nothing to Disclose

Wise, Jeffrey J.: Consulting: Medcrea Spine (B).

Witham, Timothy F.: Speaking and/or Teaching Arrangements: AOSpine North America (B); Research Support - Staff and/or Materials: Eli Lilly and Company (C, Paid directly to institution/employer); Grants: The Gordon and Marilyn Macklin Foundation (G, Paid directly to institution/employer).

Witiw, Christopher: Nothing to Disclose

Witt, Jens-Peter: Relationships Outside the One-Year Requirement: Aesculap (Speaking and/or Teaching Arrangement, Dissolved 12/2008, Evidence-based Guideline Committee).

Wojewnik, Bartosz: Nothing to Disclose

Wolf, Alex: Nothing to Disclose

Wolf, Ty: Nothing to Disclose

Wolfe, Preston: Nothing to Disclose

Wolfson, Daniel B.: Nothing to Disclose

Womack, Kenneth R.: Nothing to Disclose

Won, Yougun: Nothing to Disclose

Wong, Adam: Nothing to Disclose

Wong, Benjamin M.: Nothing to Disclose

Wong, David A.: Royalties: Lippincott Williams and Wilkins (A); Stock Ownership: Denver Integrated Imaging North (<1%), Huron Shores (50%); Consulting: United Healthcare (A); Scientific Advisory Board: United Healthcare (A); Other Office: Advanced Center for Spinal Microsurgery Presbyterian St. Luke's Medical Center Denver (B, Director).

Woo, Raymund: Royalties: SeaSpine (C); Stock Ownership: Mazor Robotics (<1%); Consulting: Implanet (B); Trips/Travel: (None); Scientific Advisory Board: SeaSpine (None 0); Research Support - Staff and/or Materials: Mazor (B, Paid directly to institution/employer).

Wood, Kirkham B.: Royalties: Globus (B); Consulting: DePuy Spine (B); Research Support - Staff and/or Materials: NIH (F, Paid directly to institution/employer); Grants: Scoliosis Research Society (C, Paid directly to institution/employer), Synthes (E, Paid directly to institution/employer), NIH (E, Paid directly to institution/employer), Medtronic (D); Fellowship Support: OREF (E), Globus (E), AOSpine, Synthes (E).

Woods, Barrett: Nothing to Disclose

Woods, Rich: Stock Ownership: K2M (<1%); Other Office: Employee (Salary).

Woods, Shane: Nothing to Disclose
Woods, Stephen T.: Consulting: Ohio Bureau of Workers' Compensation (F).
Worley, Nancy: Nothing to Disclose
Wright, David: Nothing to Disclose
Wright, Neill M.: Nothing to Disclose
Wright, Patty: Nothing to Disclose
Wu, Aimin: Nothing to Disclose
Wu, Ai-Min: Nothing to Disclose
Wu, Chunshen: Nothing to Disclose
Wu, Mingda: Nothing to Disclose
Wu, Wutian: Nothing to Disclose
Wulff, Irene: Nothing to Disclose
Wunder, Jay: Nothing to Disclose
Wymore, Kristen: Nothing to Disclose
Xavier, Fred: Nothing to Disclose
Xiao, Li: Nothing to Disclose
Xiao, Roy: Nothing to Disclose
Xiaobing, Jiang: Nothing to Disclose
XiaoFeng, Lian: Nothing to Disclose
Xie, Dingding: Nothing to Disclose
Xie, Jing-Ming: Nothing to Disclose
Xiong, Grace: Nothing to Disclose
Xiong, Jin: Nothing to Disclose
Xu, LeiLei: Nothing to Disclose
Xu, Ming: Nothing to Disclose
Xu, Nanfang: Nothing to Disclose
Xu, Zhihong: Nothing to Disclose
Y K, Batra: Nothing to Disclose
Yacob, Alem: Nothing to Disclose
Yagi, Mitsuru: Nothing to Disclose
Yaltirik, Kaan: Nothing to Disclose
Yamada, Kiyotaka: Nothing to Disclose
Yamato, Yu: Nothing to Disclose
Yan, Huang: Nothing to Disclose
Yan, Liang: Nothing to Disclose
Yan, Peng: Nothing to Disclose
Yanagisawa, Yoshikazu: Nothing to Disclose
Yanamadala, Vijay: Nothing to Disclose
Yandamuri, Soumya: Other Office: Globus Medical (Salary).
Yang, Cao: Nothing to Disclose
Yang, Chao: Other Office: Johnson & Johnson (Salary).
Yang, Cheol-Jung: Nothing to Disclose
Yang, Eugene: Nothing to Disclose
Yang, Hee-Jin: Nothing to Disclose
Yang, Huilin: Nothing to Disclose
Yang, James: Nothing to Disclose
Yang, Jin Seo: Nothing to Disclose
Yang, Jui-Jung: Nothing to Disclose

Yang, Jun: Nothing to Disclose
 Yang, Jun-Song: Nothing to Disclose
 Yang, Scott: Nothing to Disclose
 Yang, Shang-You: Nothing to Disclose
 Yang, Shih-Chieh: Nothing to Disclose
 Yang, Xiaobin: Nothing to Disclose
 Yang, Zhuo: Nothing to Disclose
 Yapicier, Ozlem: Nothing to Disclose
 Yarbrough, Chester: Nothing to Disclose
 Yardley, Darryl: Nothing to Disclose
 Yaszemski, Alexandra: Nothing to Disclose
 Yaszemski, Michael J.: Consulting: Medtronic (B, Paid directly to institution/employer).
 Ye, Linqiang: Nothing to Disclose
 Yee, Albert J.: Fellowship Support: Zimmer (E, Paid directly to institution/employer); Other: Stryker (C, Paid directly to institution/employer), Medtronic (C, Paid directly to institution/employer), Johnson & Johnson (D, Paid directly to institution/employer).
 Yen, Chun-Po: Nothing to Disclose
 Yeni, Yener: Nothing to Disclose
 Yeo, William: Nothing to Disclose
 Yerby, Scott A.: Stock Ownership: SI-BONE (<1%); Other Office: SI-BONE (Salary).
 Yeung, Anthony T.: Device or Biologic Distributorship (Physician-Owned Distributorship): Bonovo (A); Royalties: Richard Wolf (D), Elliquence (D); Stock Ownership: Paradigm Spine (<1%, Paid directly to institution/employer); Private Investments: Ouroboros (20%), Surgitech (20%), SBI (20%); Consulting: Richard Wolf (Amount not disclosed, Paid directly to institution/employer), Elliquence (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Richard Wolf (Amount not disclosed, Paid directly to institution/employer), Elliquence (Amount not disclosed, Paid directly to institution/employer), Bonovo (Amount not disclosed, Paid directly to institution/employer); Trips/Travel: Richard Wolf (Travel expenses, Paid directly to institution/employer), Elliquence (Travel expenses, Paid directly to institution/employer), Bonovo (Travel expenses, Paid directly to institution/employer); Board of Directors: Ouroboros (None), Surgitech (None); Scientific Advisory Board: Replication Medical (None), Aleeva (None); Other Office: Bonovo (Bonovo Academic Alliance).
 Yi, Juneyoung: Nothing to Disclose
 Yi, Paul: Nothing to Disclose
 Yi, Seong: Nothing to Disclose
 Yildirim, Baris: Nothing to Disclose
 Yilgor, Caglar: Nothing to Disclose
 Yilmaz, Baran: Nothing to Disclose
 Yingsakmongkol, Wicharn: Nothing to Disclose
 Yirenkyi, Henaku K.: Nothing to Disclose
 Yirerong, Theresa: Nothing to Disclose
 Yoganandan, Narayan: Nothing to Disclose
 Yonemura, Kenneth S.: Royalties: Genesys (B); Stock Ownership: Diamicron (<1%), Anulex Technologies (<1%), Crocker Spinal Technologies (<1%), TrueMotion Spine (<1%); Consulting: SpineGuard (A), Spineology (B), Paradigm Spine (None); Other: North American Spine Society (Professional Conduct & Ethics Committee).
 Yoo, Heon: Nothing to Disclose

Yoo, Jung U.: Royalties: Osiris Therapeutics (B, Paid directly to institution/employer); Fellowship Support: Globus (E).

Yoon, Byung-Hak: Nothing to Disclose

Yoon, Jang W.: Stock Ownership: MedCyclops (40%).

Yoon, Ji-Sang: Nothing to Disclose

Yoon, S. Tim: Royalties: Stryker Spine (B, Paid directly to institution/employer), Meditech Advisors (A); Stock Ownership: Phygen (<1%); Private Investments: Meditech (<1%); Consulting: Meditech Advisors (None); Trips/Travel: AOSpine (B), International Society for the Study of the Lumbar Spine (B); Other Office: International Society for the Study of the Lumbar Spine (None); Research Support - Staff and/or Materials: NuVasive (A), Medtronic (A); Grants: Biomet Spine (C, Paid directly to institution/employer).

Yoon, Seung Hwan: Nothing to Disclose

York, John H.: Consulting: VGI Medical (B), Atlas Spine (B); Speaking and/or Teaching Arrangements: VGI Medical (B), Atlas Spine (B).

Yoshida, Go: Nothing to Disclose

Yoshioka, Hiroshi: Nothing to Disclose

Yoshiya, Shinichi: Nothing to Disclose

You, Jee Young: Nothing to Disclose

Young, Lyle C.: Nothing to Disclose

Youssef, Jim A.: Royalties: NuVasive (F), Osprey Medical (F), Amedica (F), SeaSpine (F); Stock Ownership: Amedica (<1%), Benvenue Medical (<1%), Paradigm Spine (<1%), Promethean Surgical Devices (<1%), Spinal Ventures (<1%), VertiFlex, (<1%); Private Investments: Amedica (<1%), VertiFlex (<1%), Benvenue (<1%); Consulting: SeaSpine (A), NuVasive (A), Amedica (A), HealthTrust (A); Board of Directors: Society of Lateral Access Surgery (None); Research Support - Staff and/or Materials: Globus Medical (C, Paid directly to institution/employer), NuVasive (C, Paid directly to institution/employer), VertiFlex (C, Paid directly to institution/employer), SeaSpine (C, Paid directly to institution/employer).

Yson, Sharon C.: Other: NuVasive (None).

Yu, Elizabeth: Other: The Spine Journal (Reviewer).

Yu, Miao: Nothing to Disclose

Yu, Yan: Nothing to Disclose

Yu, Yang: Nothing to Disclose

Yuan, Tao: Nothing to Disclose

Yuandong, Zhuang: Nothing to Disclose

Yucekul, Altug: Nothing to Disclose

Yucesoy, Kemal: Nothing to Disclose

Yue, James J.: Royalties: Alphatec Spine (B); Stock Ownership: Alphatec Spine (<1%); Private Investments: Paradigm Spine (<1%); Consulting: Wolf Spine (B), Aesculap Spine (B); Speaking and/or Teaching Arrangements: Replication Medical (B).

Yue, John: Nothing to Disclose

Yue, Wai-Mun: Consulting: Medtronic (B, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Medtronic (B, Paid directly to institution/employer), DePuy (B, Paid directly to institution/employer); Trips/Travel: Medtronic (B, Paid directly to institution/employer), NuVasive (B, Paid directly to institution/employer); Fellowship Support: Medtronic (E, Paid directly to institution/employer), DePuy-Synthes (C, Paid directly to institution/employer).

Yuksel, Zafer: Nothing to Disclose

Yun, Chawon: Nothing to Disclose

Yun, Jonghwa: Nothing to Disclose

Yurac, Ratko: Nothing to Disclose
Yurgan, Hayley: Nothing to Disclose
Yuvaraja, Murugan: Nothing to Disclose
Yuwen, Jiang: Nothing to Disclose
Zabalza Mantilla, Oscar: Nothing to Disclose
Zabka, Martin: Relationships Outside the One-Year Requirement: K Spine (Research Support: Investigator Salary, Dissolved 12/2014, A).
Zadnik, Patricia L.: Nothing to Disclose
Zagel, Alicia: Nothing to Disclose
Zahrawi, Faissal: Royalties: LDR (C, Paid directly to institution/employer); Consulting: Mazor (Amount not disclosed, Paid directly to institution/employer); Speaking and/or Teaching Arrangements: Spine Wave (Amount not disclosed, Paid directly to institution/employer); Trips/Travel: LDR (B, Paid directly to institution/employer); Research Support - Staff and/or Materials: LDR (D, Paid directly to institution/employer); Other: Mazor (C).
Zakaria, Hesham: Nothing to Disclose
Zaldivar-Jolissaint, Julien Francisco: Nothing to Disclose
Zambrana, Lester: Nothing to Disclose
Zamora, Tomas: Nothing to Disclose
Zamorano, Lucia: Nothing to Disclose
Zampini, Jay M.: Relationships Outside the One-Year Requirement: Biomet Spine (Consulting, Dissolved 06/2014, B).
Zarei, Vahhab: Nothing to Disclose
Zarrabian, Mohammad: Nothing to Disclose
Zavatsky, Joseph M.: Royalties: Biomet (D); Stock Ownership: SafeWire (<1%), Vivex (<1%), Sentio (<1%); Consulting: DePuy (E), Biomet (B), Stryker (B); Scientific Advisory Board: Amendia (B).
Zebala, Lukas P.: Consulting: Ulrich Medical (B), K2M (B); Speaking and/or Teaching Arrangements: Broadwater (A), K2M (B); Trips/Travel: K2M (Travel expenses); Fellowship Support: AOSpine/Omega (C, Paid directly to institution/employer).
Zeide, Michael S.: Stock Ownership: ExamWorks (<1%, Paid directly to institution/employer), DuPont (<1%), Pfizer (<1%), GE (<1%); Consulting: American Journal of Orthopedics (None).
Zeller, John: Nothing to Disclose
Zhan, Chaoshuang: Nothing to Disclose
Zhan, Yulin: Nothing to Disclose
Zhang, Wen: Nothing to Disclose
Zhang, Wen: Nothing to Disclose
Zhang, Ying: Nothing to Disclose
Zhang, Yue: Nothing to Disclose
Zhang, Yunpeng: Relationships Outside the One-Year Requirement: Drum Tower Hospital (Royalties, 10/2017).
Zhang, Zhishan: Nothing to Disclose
Zhang, Zhongying: Nothing to Disclose
Zhao, Wenyan: Nothing to Disclose
Zhao, Zhi: Nothing to Disclose
Zhen, Liu: Nothing to Disclose
Zheng, Evan: Nothing to Disclose
Zheng, Justin: Nothing to Disclose
Zheng, Mingxin: Nothing to Disclose
Zheng, Patricia: Nothing to Disclose

Zheng, Xin: Nothing to Disclose
Zhong, Weiye: Nothing to Disclose
Zhou, Chunguang: Nothing to Disclose
Zhou, Fang: Nothing to Disclose
Zhou, Qing-Sheng: Nothing to Disclose
Zhou, Zhen J.: Nothing to Disclose
Zhu, Feng: Nothing to Disclose
Zhu, Hongwen: Nothing to Disclose
Zhu, Jinwen: Nothing to Disclose
Zhu, Weiguo: Nothing to Disclose
Zhu, Zezhang: Nothing to Disclose
Zigler, Jack E.: Royalties: Zimmer Spine (B); Stock Ownership: Expanding Orthopedics (<1%), SafeOrthopedics (<1%); Consulting: DePuy Synthes (C), Aesculap (C), Medtronic Spine (B), Orthofix (B), Simplify Medical (B), FloSpine (B); Speaking and/or Teaching Arrangements: Synthes Spine (C), MiMedx (A); Scientific Advisory Board: SafeOrthopedics (None); Research Support - Staff and/or Materials: Various (D, Paid directly to institution/employer); Fellowship Support: Medtronic Neurologic (D).
Zlomislic, Vinko: Speaking and/or Teaching Arrangements: DePuy Synthes (B).
Zmistowski, Benjamin: Nothing to Disclose
Zohny, Zohny: Nothing to Disclose
Zoller, Stephen: Nothing to Disclose
Zucherman, James F.: Stock Ownership: Benvenue (Amount not disclosed).
Zuckerman, Scott L.: Nothing to Disclose
Zylbersztejn, Sergio: Nothing to Disclose