

Conflict of Interest Disclosures

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Vikas	Patel	1. EOS-Imaging, 2. Orthopediatrics, DePuy Synthes Spine, 3a. Spinologics, Spino-Modulation, 4. Spinologics, 5. DePuy Synthes Spine, 6. DePuy Synthes Spine, Orthopediatrics
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Mirza David	Pojskic Polly	2. Globus Medical, 5. Cervical Spine Research Society, 9. Cerapedics: Other financial or material support, Cervical Scoliosis Research Society: Research support, Globus Medical: Paid presenter or speaker, Medtronic: Paid consultant, Royal Biologics: Paid consultant, Spine: Editorial or governing board, Spinevision: Other financial or material support, SpineVwave: Paid consultant, JNS Spine: Editorial Board, JCM: Editorial Board
Eric Themistocles	Potts Protopsaltis	2. Mainstay Medical, 3b. Spine Welding, DePuy-Synthes, Zimmer Biomet, Baxter Healthcare, Stryker Spine, Aesculap, SI Bone, Mainstay Medical, J&J DePuy Orthopaedics, 5. Mainstay Medical, Medicea, Medtronic, Orthofix, Pfizer, Spinal Kinetics – paid to the institution not to Dr. Patel, 7. Editorial Board member for Orthopedics, Orthopedics Today, Spine Surgery Today and Helio, 8. Editorial Board member for Orthopedics, Orthopedics Today, Spine Surgery Today and Helio
Andrew	Pugely	5. Siemens Healthare GmbH, Erlangen, Germany
Han Sheeraz	Qiao Qureshi	2. Carl Zeiss Meditec
Shanmuganathan Maximilian	Rajasekaran Reinhold	8. WFNS Spine Committee, EANS/EBNS Board Examination Committee
Jeremy Alfred	Reynolds Rhyne	1. SI-Bone and Springer, 2. SI-Bone, 3b. Globus Medical, and SI-Bone, 5. Medtronic and MizuhoOSI, AO Spine, 8. Minnesota Orthopaedic Society Board of Directors
Madilyn Florian	Riegel Ringel	3b. Globus
Domenic Brett	Robinson Rocos	1. Altus, 3b. Globus, NuVasive, Medtronic, Stryker, K2M, 4. OnPoint Surgical, 5. 3Spine
Marc-Antoine Jacob	Rousseau Rumley	3b. Medtronic, Globus Medical, and United Healthcare, 5. Medtronic, Globus Medical, Lumbar Spine Research Society, Cervical Spine Research Society, Trustees of Dartmouth College, and RDB Bioinformatics, 6. Globus Medical, 8. United Health Care
		6. NSFC
		1. Royalties from Intellectual Property at Globus Medical, Inc., Royalties from Intellectual Property at Stryker K2M., 2. Speakers' Bureau at Globus Medical, Inc., 3b. Consultant for Globus Medical, Inc., SpineGuard, Inc., Stryker K2M, Surgalign and Viseon, Inc., 4. Ownership/Equity/Investment at HS2, LLC, Ownership/Equity/Investment at Tissue Differentiation Intelligence., 5. Research Support (either personally or through HSS) at Viseon, Inc., 7. Editorial Board at Annals of Translational Medicine (ATM), Editorial Board at Contemporary Spine Surgery, Editorial Board/Senior Associate Editor (2021-2024) at Hospital Special Surgery Journal, 8. Program Committee member and Professional Society member at Association of Bone and Joint Surgeons (ABJS), Publications Committee member (2019-2022) and Professional Society member at Cervical Spine Research Society (CSRS), Education Committee, Program Committee, 2021 Annual Meeting Program Chair and Professional Society member at International Society for Advancement of Spine Surgery (ISASS), Political Engagement Committee member, Payor Policy Review Committee member, SpinePAC Advisory Committee member and CME Committee member at North American Spine Society (NASS), Program Committee member, 2018 Annual Meeting Program Chair, Board of Directors (2021-2024), Professional Society member of Directors/Trustees/Governors/Managers, Member at Large or Committee member at Society of Minimally Invasive Spine Surgery (SMISS), Website Committee member (2022-2022), Professional Society member/directors/Trustees/Governors/Managers, Member at Larger or Committee member at Lumbar Spine Research Society (LSRS), Board of Directors at Simplify Medical, Inc., Board of Directors Treasurer at Minimally Invasive Spine Study Group, Clinical Event Committee at Simplify Medical, Inc., Medical or Scientific Advisory Board Membership at LifeLink.com Inc., Medical or Scientific Advisory Board Membership at Spinal Simplicity, LLC, 9. Designer at Stryker K2M. Honoraria at AMOopportunities
		8. AO Spine Board Past chairperson
		8. DWG
		8. AO Spine Tumour Knowledge Forum
		6. Research support as an associate investigator in a clinical study supported by Tyber Medical, LLC
		3a. Tyber Medical, LLC
		1. Stryker, Ulrich, Spineart, Brainlab, 2 Stryker, Ulrich, Spineart, Brainlab, 3b. Stryker, Ulrich, Spineart, Brainlab, 8. EANS Spine Section
		3b. Nuvasive
		2. Silony Medical GmbH
		1. Spine Innovation
		3b. SeaSpine

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Niklas	Rutsch	7. Editor in Chief at Berlin Exchange Medicine (non pubmed listed German Open Science Student Journal), unpaid voluntary work
Katherine Andrew	Sage Sama	3a. Kuros 1. Ortho Development, Corp, 3b. Depuy Synthes Products, Inc., Clariance, Inc., Kuros Biosciences AG, Ortho Development Corp., Medical Device Business Service, Inc.,4. Vestia Ventures MIRUS Investment, LLC, IVY II, LLC, ISPH II, LLC, ISPH 3, LLC, HSS ASC Development Network, LLC, and Centinel Spine
Amer	Samdani	1. DePuy, A Johnson & Johnson Company: Paid consultant, Ethicon: Paid consultant, Globus Medical: Paid consultant, Medical Device Business Services: Paid consultant Mirus: Paid consultant, Nuvasive: IP royalties; Paid consultant, Orthofix, Inc.: Paid consultant, Pediatric Spine Study Group: Board or committee member, Setting Scoliosis Straight Foundation: Board or committee member, Stryker: Paid consultant, ZimVie: IP royalties; Paid consultant, 2. DePuy, A Johnson & Johnson Company: Paid consultant, Ethicon: Paid consultant, Globus Medical: Paid consultant, Medical Device Business Services: Paid consultant, Mirus: Paid consultant, Nuvasive: IP royalties; Paid consultant, Orthofix, Inc.: Paid consultant, Pediatric Spine Study Group: Board or committee member, Setting Scoliosis Straight Foundation: Board or committee member, Stryker: Paid consultant, ZimVie: IP royalties; Paid consultant, 3b. DePuy, A Johnson & Johnson Company: Paid consultant, Ethicon: Paid consultant, Globus Medical: Paid consultant, Medical Device Business Services: Paid consultant, Mirus: Paid consultant, Nuvasive: IP royalties; Paid consultant, Orthofix, Inc.: Paid consultant, Pediatric Spine Study Group: Board or committee member, Setting Scoliosis Straight Foundation: Board or committee member, Stryker: Paid consultant, ZimVie: IP royalties; Paid consultant, 8. Pediatric Spine Study Group: Board or committee member, Setting Scoliosis Straight Foundation: Board or committee member
Harvinder	Sandhu	3b. Seaspine, BioRestorative Therapies, Prosidyan, 4. Providence Medical Technology, Inc., Spine Wave, Inc., HS2, LLC, Paradigm Spine, LLC, 9. Spine Wave, Inc. (inventor)
Gururaj Charles	Sangondimath Sansur	8. ASSI Education Committee 1. Stryker, 3b. NuVasive
Babak	Saravi	5. Joimax
Zeeshan	Sardar	3b. Medtronic
Benjamin	Saß	2. Brainlab
Rick	Sasso	1. Medtronic, Nuvasive, 3b. Spineart, 5. Orthofix, 8. CSRS
Florian	Schmaranzer	2. FS has received honoraria and travel expenses from Geistlich Pharma AG
Werner	Schmoelz	3c. Eurospine, Deutsche Wirbelsäulengemeinschaft
Klaus	Schnake	3b. Consultant for Medtronic, 6. Research Grant Medtronic
Gregory	Schroeder	3b. Advance Medical, Bioventus, Surgalign, 5. Cerapedics, DePuy, A Johnson & Johnson Company, Medtronic Sofamor Danek, 6. AOSpine, 7. Wolters Kluwer Health – Lippincott Williams & Wilkins,8. AOSpine, Cervical Spine Research Society
Josh	Schroeder	1. Path keeper, 2. Medtronic, 3c. Pathkeeper
Peter	Seevinck	3a. MRI guidance, 5. Not related to this study
Paul Bradley	Segebarth	6. Research support as an associate investigator in a clinical study supported by Tyber Medical, LLC
Jonathan N.	Sembrano	5. NuVasive and Orthofix
Christopher	Shaffrey	3b. NuVasive, Medtronic, SI Bone, and Proprio
Ayush	Sharma	8. Bombay Spine Society, MISSAB
Jeremy D.	Shaw	4. Purgo Scientific LLC, 8. Cervical Spine Research Society, Elsevier, Lumbar Spine Research Society
Ahmed	Shawky Abdelgawaad	8. EBM and guideline Committee NASS, IMAST Committee SRS
Evan	Sheha	3b. TheraCell
Ehab	Shiban	3b. Ulrich medical,
Jeff	Silber	9. Dr. Jeff Silber gives Spine lectures to representatives from Stryker.
Nikki	Sizer	9. Match funded PhD with Baxter Medical
Jonathan	Slotkin	3b. Medtronic and Stryker
Chris	Small	3b. Bioventus
John	Small	1. Astura Medical, 3b. Astura Medical

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John	Smith	1. Board of Directors, Children's Spine Foundation: Editorial or governing board, Children's Spine Foundation: Board or committee member, Globus Medical: IP royalties, Wishbone: Paid consultant, Zimmer: Paid consultant, 2. Board of Directors, Children's Spine Foundation: Editorial or governing board, Children's Spine Foundation: Board or committee member, Globus Medical: IP royalties, Wishbone: Paid consultant, Zimmer: Paid consultant, 3a. Board of Directors, Children's Spine Foundation: Editorial or governing board, Children's Spine Foundation: Board or committee member, Globus Medical: IP royalties, Wishbone: Paid consultant, Zimmer: Paid consultant, 3b. Board of Directors, Children's Spine Foundation: Editorial or governing board, Children's Spine Foundation: Board or committee member, Globus Medical: IP royalties, Wishbone: Paid consultant, Zimmer: Paid consultant, 4. Board of Directors, Children's Spine Foundation: Editorial or governing board, Children's Spine Foundation: Board or committee member, Globus Medical: IP royalties, Wishbone: Paid consultant, Zimmer: Paid consultant, 8. Board of Directors, Children's Spine Foundation: Editorial or governing board, Children's Spine Foundation: Board or committee member, Globus Medical: IP royalties, Wishbone: Paid consultant, Zimmer: Paid consultant, 9. Board of Directors, Children's Spine Foundation: Editorial or governing board, Children's Spine Foundation: Board or committee member, Globus Medical: IP royalties, Wishbone: Paid consultant, Zimmer: Paid consultant,
Justin	Smith	1. ZimVie, NuVasive, 3b. ZimVie, NuVasive, Medtronic, SeaSpine, Carlsmed, Cerapedics, DePuy Synthes, 4. NuVasive, Alphatec, Carlsmed, 5. DePuy Synthes/ISSGF, 6. SeaSpine (Fellowship support), 8. Scoliosis Research Society Board of Directors, International Spine Study Group Executive Committee
Darryl	Sneag	3b. General Electric Healthcare Consultant, 5. AMAG Pharmaceuticals, Inc. Research Support, General Electric Healthcare Research Support, Medtronic, Inc. Research Support, Siemens Healthcare, USA Research Support
Jess G.	Snedeker	1. ZüriMED AG, 4. ZüriMED AG, 9. Swiss National Science Foundation, Canton Zurich, Swiss Government, Diverse public / non-profit sources
Ryan	Snowden	3b. Medtronic
Gbolabo	Sokunbi	3b. Camba, Striker
Leo	Spector	5. Tyber Medical, LLC
Byron	Stephens	1. Educational consulting for medical device business services, 5. Grant from Stryker Spine (RI160501)
Elizaveta	Stepina	3a. Siemens Healthare GmbH, Erlangen, Germany
Holly	Stewart	8. committee member for the ACVS Research Committee and AAEP Membership Engagement Committee
Martin	Stienen	5. MRI Guidance (boneMRI Software Provider)
Aaron	Stoker	1. Musculoskeletal Transplant Foundation
John	Stokes	1. Genesys, 4. Diffusion, Summit medventures, osteocentric tech
Sophia	Stokes	1. Genesys Ortho, 3b. Surgalign spine tech, 4. Diffusion, Osteocentric
Russell	Strom	3b. Medtronic
Koji	Tamai	7. Deputy editor, Global Spine Journal, 8. Scientific chair, SPINE20
Lee	Tan	3b. Medtronic. Stryker.
Masato	Tanaka	1. Teijin Company
Claudio	Tatsui	5. Icotec
Paul	Taylor	6. NeuroSpine Foundation who coordinate and manage NeuroSpine Institute research projects receive institutional support from Life Health Care, NuVasive, Signus.
Jin	Tee	2. Medtronic, 3b. Medtronic
Michele	Temple-Wong	3a. Carlsmed
Friedrich	Thienemann	9. Project no AOS-DIA-22-029-TRA is supported by AO Foundation, AO Spine. AO Spine is a clinical division of the AO Foundation –an independent medically-guided not-for-profit organization based in Davos, Switzerland.
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Claudius	Thomé	1. DPS, Signus, 2. DPS, Signus, 3b. DPS, Signus, 5. Neosurgery, 8. AO Spine, EANS
Martin	Tom	2. Elsevier, 3b. ViewRay, 5. Blue Earth Diagnostics
Per	Trobisch	2. Globus Medical, TriaSpine, 8. SRS IMAST Chair
Eeric	Truumees	1. Stryker, 5. Orthofix, Relievent Medsystems, 8. NASS
Jay	Turner	3b. ATEC, SeaSpine, NuVasive, and SI Bone, 5. ATEC, SeaSpine, NuVasive, and SI Bone
Joseph	Turner	3a. Acuity Surgical
Juan	Uribe	1. Aclarion, Nuvasive, 2. Nuvasive, Society of Lateral Access Surgery, Society of Minimally Invasive Spine Surgery, 3b. Mainstay Medical, Misonix, Nuvasive, SI Bone, 4. Nuvasive, 5. ATEC, Nuvasive
Alex	Vaccaro	1. Stryker Spine, Globus, Medtronic, Atlas Spine, Alphatec Spine, Elsevier, Jaypee, Taylor Francis/Hodder and Stoughton, SpineWave, Spinal Elements, and Thieme, 3b. Globus, 4. Accelus, Advanced Spinal Intellectual Properties, Atlas Spine, Avaz Surgical, AVKN Patient Driven Care, Cytonics, Deep Health, Dimension Orthotics LLC, Electrocore, Flagship Surgical, FlowPharma, Globus, Harvard MedTech, Innovative Surgical Design, Jushi (Haywood), Nuvasive, Orthobullets, Parvizi Surgical Innovation, Progressive Spinal Technologies, Rothman Institute and Related Properties, Sentryx, Stout Medical, ViewFi Health, 8. Accellus, National Spine Health Foundation, Sentryx
Petr	Vachata	8. CSRS
Antonio	Valdevit	5. Centinel Spine, SurgenTec, netBiologics, CornerLoc, Acuity Surgical
Tijl	van der Velden	3a. MRIguidance

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Job	van Susante	5. Kuros Sub PI
Andres	Vargas	3b. Matricelf Inc,4. NeuroReach; Matricelf Inc
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Anne	Versteeg	5. Research support AOSpine International
Sven	Vetter	5. NuVasive Germany GmbH, 8. Secretary Working Group for Intraoperative Imaging and Technology Integration (AGiTEC) of the German Society for Orthopaedics and Trauma Surgery, 9. The research group received grants/ has grants pending and technical support from Siemens Healthineers (Erlangen, Germany) and Nuvasive Inc. (San Diego, CA, USA). The funders had no involvement in the study design, collection, analysis, and interpretation of data, writing of the manuscript, or decision to submit the manuscript for publication.
Raphael	Vialle	3b. Stryker Spine, Nuvasive, Spineguard
Michael	Virk	3b. Depuy Synthes, 4. OnPoint Surgical
Sohrab	Virk	3b. LifeSpine, 5. AO Spine, Stryker, Induce Biologics
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Jeffrey	Wang	1. Biomet, Novapproach, Seaspine, Synthes, 3b. Angitia, Bioretec, Epidutech, 4. Pearldiver, Surgitech, 7. Global Spine Journal, 8. AO Foundation
Kaifeng	Wang	9. 2022 AO Spine Asia Pacific National Research Grant
Marjorie C.	Wang	4. Doximity, 9. AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves, Internal funding from the Daniel F. Soref Pilot Funding program.
Michael	Wang	1. Depuy-Synthes, 3b. Depuy-Synthes, Stryker, Spineology, Surgalign, Nu Vasive, and Pacira, 4. Kinesimetrics, Medical Device Partners, and ISD
Karen	Weissmann	3b. Orthopediatrics, Synthes, 8. Editor European Spine Journal, Chairman Value and Safety committee Scoliosis Research Society, Secretary Spine Committee Sociedad Chilena de Ortopedia y Traumatologia, Council AO Spine Chile, Board Patagonia Spine Foundation
Michael	Wiley	5. Excere Medical
Christopher	Witiw	3b. Cerapedics Inc.: Consulting, 5. Cerapedics Inc.: Research Funding
Panghung	Wu	9. wife owns endocare which is a company supplies endoscopy equipemnt for surgeries
Alvaro	Yanez	4. Holds stock in MoveMed Ltd
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Noriaki	Yokogawa	5. This research was funded by the Japan Orthopaedics and Traumatology Research Foundation (Grant No. 506).
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Emily	Zielinski	8. Cervical Spine Research Society committee member (Research committee)
Scott Lawrence	Zuckerman	3b. NFL and Medtronic