Live Learner Notification

Cervical Spine Research Society 2023 Annual Meeting - Live November 29, 2023 - December 2, 2023

Acknowledgement of Financial Commercial Support Acknowledgement of In-Kind Commercial Support

No in-kind commercial support was received for this educational activity.

Satisfactory Completion

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

Joint Accreditation Statement



In support of improving patient care, this activity has been planned and implemented by Amedco LLC and Cervical Spine Research Society. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Amedco Joint Accreditation Provider Number: 4008163

Physicians

ACCME Credit Designation Statement

Amedco LLC designates this live activity for a maximum of 22.50 AMA PRA Category 1 Credits[™] for physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Objectives - After Attending This Program You Should Be Able To

1. 1. Present the results of current cervical spine research data.

- 2. Promote discussion of new developments and techniques.
- 3. Foster research concerning the diagnosis and treatment of cervical spine injury and disease.

Disclosure of Conflict of Interest

The following table of disclosure information is provided to learners and contains the relevant financial relationships that each individual in a position to control the content disclosed to Amedco. All of these relationships were treated as a conflict of interest, and have been resolved. (C7 SCS 6.1-6.2, 6.5)

All individuals in a position to control the content of CE are listed in the program book. If their name is not listed on the following page, they disclosed that they had no financial relationships with a commercial interest.

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| | Consultant relationship with Springer International Publishing; Consultant relationship with Thieme Medical Publishers; Author relationship with Springer International Publishing; Author relationship with Thieme Medical Publishers; Fellowship relationship with AO Spine; Fellowship relationship |
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| Ames, Christopher (MD) Anwar, Fatima (BA) | Scoliosis Research Society No Relevant Financial Relationships |
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| Asada, Tomoyuki (MD) | No Relevant Financial Relationships |
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| Boakye, Maxwell (MD, FAANS) | No Relevant Financial Relationships |
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| Brodke, Darrel (MD) | Consultant relationship with Orthofix; Consultant relationship with CTL Amedica |
| Buell, Thomas (M.D.) | No Relevant Financial Relationships |
| Carroll, Austin (MD) | No Relevant Financial Relationships |
| Chan, Andrew (M.D.) | No Relevant Financial Relationships |
| Chan, Justin (MD) | No Relevant Financial Relationships |
| Changoor, Stuart (MD) | No Relevant Financial Relationships |
| Chen, Daniel (BS) | No Relevant Financial Relationships |
| Chen, Xiongsheng (MD) | No Relevant Financial Relationships |
| Choi, Hoon (MD PhD) | Speakers Bureau relationship with Globus Medical; Consultant relationship with Globus Medical |
| Choi, Sung Hoon (MD) | No Relevant Financial Relationships |
| Choi, Ji Uk (MD) | No Relevant Financial Relationships |
| Chryssikos, Timothy (MD, PhD) | No Relevant Financial Relationships |
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| Colman, Matthew (MD) | Johnson Company; Consultant relationship with Alphatec Spine |
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| Dailey, Andrew (MD) | Investigator relationship with Zimmer Biomet |
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| | Hoang, Timotny (BA) Hoffman, Clayton (BS) | No Relevant Financial Relationships |

| Holly, Langston (MD, FAANS) | Patent Holder relationship with Medtronic |
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| Hong, Jae Taek (MD, PhD) | No Relevant Financial Relationships |
| Houten, John (MD, FAANS) | No Relevant Financial Relationships |
| | Consultant relationship with Surgalign; Consultant relationship with Bioventus; Consultant relationship with Asahi; Consultant relationship with Surgalign; Owner relationship with Amphix Bio; Consultant relationship with Promimic; Consultant relationship with medtronic; Consultant relationship with Stryker; Consultant relationship with Promimic; Consultant relationship with Stryker; Consultant relationship with Medtronic; Consultant relationship |
| Hsu, Wellington (MD) | with Asahi |
| Jang, Hyun Jun (MD) | No Relevant Financial Relationships |
| Janjua, M. Burhan (MD) | No Relevant Financial Relationships |
| Javeed, Saad (MD) | No Relevant Financial Relationships |
| Jiang, Liang (MD) | No Relevant Financial Relationships |
| Kanda, Yutaro (MD, PhD) | No Relevant Financial Relationships |
| Kang, James (MD) | Scientific/Medical Advisory Board Member relationship with OnPoint Surgical |
| Kang, Kyung-Chung (MD) | No Relevant Financial Relationships |
| Karamian, Brian (MD) Kepler, Chris (MD, MBA) | No Relevant Financial RelationshipsResearch Grant Site Principal Investigator relationship with NIH; Deputy Editor relationship with Clinical Spine Surgery; Royalty Agreement relationship with Camber; Royalty Agreement relationship with Inion |
| Kesler, Kyle (MD) | No Relevant Financial Relationships |
| Kim, Han Jo (MD) | Research Grant Site Principal Investigator relationship with SI BONE; Research Grant Site Principal Investigator relationship with ISSGF; Consultant relationship with Acuity Surgical; Fellowship Support relationship with AO Spine; Consultant relationship with K2M-Stryker; Consultant relationship with Zimmerbiomet; Consultant relationship with Nuvasive; Scientific/Medical Advisory Board Member relationship with Vivex Biology; Scientific/Medical Advisory Board Member relationship with Aspen Medical; Inventor relationship with Acuity Surgical; Inventor relationship with Stryker; Inventor relationship with Zimvie; Fellowship Director relationship with AO SPINE; ; Scientific/Medical Advisory Board Member relationship with MUVASIVE; Scientific/Medical Advisory Board Member relationship with MIRUS |
| Kim, Nam Yeop (MD) | No Relevant Financial Relationships |
| Lambrechts, Mark (MD) | No Relevant Financial Relationships |
| Lavadi, Raj (M.B.B.S.) | No Relevant Financial Relationships |
| Lawrence, Brandon (MD) | Corporate Board Member relationship with Medtronic; Corporate Board Member relationship with AO Spine North America; Corporate Board Member relationship with AO Spine North America; Corporate Board Member relationship with Medtronic Consultant relationship with elliquence; Consultant relationship with medtronic; Consultant relationship with Elliquence; Consultant relationship |
| Lee, Sang Hun (MD) | with Medtronic |
| Lee, JooYoung | No Relevant Financial Relationships |
| Lee, Yunsoo (MD) | No Relevant Financial Relationships |
| Levy, Hannah (MD) | No Relevant Financial Relationships |
| Liang, Guoyan (MD) | No Relevant Financial Relationships |
| Ludwig, Steven (MD) | Consultant relationship with K2M/Stryker; Scientific/Medical Advisory Board Member relationship with NuVasive; Stock Shareholder relationship with Innovative Surgical Designs; Stock Shareholder relationship with Advance Spinal Intellectual Property; Research Grant Site Principal Investigator relationship with Thieme, Quality Medical Publishers; Research Grant Overall Principal Investigator relationship with AOA Omega Grant; Consultant relationship with DePuy Synthes |

| No Relevant Financial RelationshipsNo Relevant Financial RelationshipsSpeakers Bureau relationship with Medtronic; Stock Shareholder relationshipwith AxiomedNo Relevant Financial RelationshipsNo Relevant Financial RelationshipsSpeakers Bureau relationship with Globus MedicalNo Relevant Financial Relationshipsroyalties relationship with strykerFellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty relationship with Springer Publishing; Stock Shareholder relationship with |
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| No Relevant Financial Relationships No Relevant Financial Relationships No Relevant Financial Relationships Speakers Bureau relationship with Medtronic; Stock Shareholder relationship with Axiomed No Relevant Financial Relationships No Relevant Financial Relationships No Relevant Financial Relationships Speakers Bureau relationship with Globus Medical No Relevant Financial Relationships royalties relationship with stryker Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| No Relevant Financial RelationshipsNo Relevant Financial RelationshipsSpeakers Bureau relationship with Medtronic; Stock Shareholder relationship with AxiomedNo Relevant Financial RelationshipsNo Relevant Financial RelationshipsNo Relevant Financial RelationshipsSpeakers Bureau relationshipsSpeakers Bureau relationshipsSpeakers Bureau relationship with Globus MedicalNo Relevant Financial Relationshipsspeakers Bureau relationship with Globus MedicalNo Relevant Financial Relationshipsroyalties relationship with strykerFellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| No Relevant Financial RelationshipsNo Relevant Financial RelationshipsSpeakers Bureau relationship with Medtronic; Stock Shareholder relationship with AxiomedNo Relevant Financial RelationshipsNo Relevant Financial RelationshipsNo Relevant Financial RelationshipsSpeakers Bureau relationshipsSpeakers Bureau relationshipsSpeakers Bureau relationship with Globus MedicalNo Relevant Financial Relationshipsspeakers Bureau relationship with Globus MedicalNo Relevant Financial Relationshipsroyalties relationship with strykerFellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| No Relevant Financial Relationships Speakers Bureau relationship with Medtronic; Stock Shareholder relationship with Axiomed No Relevant Financial Relationships No Relevant Financial Relationships No Relevant Financial Relationships Speakers Bureau relationship with Globus Medical No Relevant Financial Relationships royalties relationship with stryker Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| Speakers Bureau relationship with Medtronic; Stock Shareholder relationship with Axiomed No Relevant Financial Relationships No Relevant Financial Relationships No Relevant Financial Relationships Speakers Bureau relationship with Globus Medical No Relevant Financial Relationships Speakers Bureau relationship with Globus Medical No Relevant Financial Relationships royalties relationship with stryker Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| No Relevant Financial Relationships No Relevant Financial Relationships No Relevant Financial Relationships Speakers Bureau relationship with Globus Medical No Relevant Financial Relationships royalties relationship with Globus Medical Pellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| No Relevant Financial Relationships No Relevant Financial Relationships Speakers Bureau relationship with Globus Medical No Relevant Financial Relationships royalties relationship with stryker Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| No Relevant Financial Relationships Speakers Bureau relationship with Globus Medical No Relevant Financial Relationships royalties relationship with stryker Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| Speakers Bureau relationship with Globus MedicalNo Relevant Financial Relationshipsroyalties relationship with strykerFellowship funding relationship with Pacira Biosciences; Research grantrelationship with NIH/NIAMS U19AR076737; Consultant relationship withDepuy Spine; Consultant relationship with Globus; Consultant relationshipwith Nuvasive; Consultant relationship with BK Medical; Royalty relationshipwith Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| No Relevant Financial Relationships royalties relationship with stryker Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| royalties relationship with stryker Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| Fellowship funding relationship with Pacira Biosciences; Research grant relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| relationship with NIH/NIAMS U19AR076737; Consultant relationship with Depuy Spine; Consultant relationship with Globus; Consultant relationship with Nuvasive; Consultant relationship with BK Medical; Royalty relationship with Depuy Spine; Royalty relationship with Thieme Publishing; Royalty |
| Spinicity/ISD; Speakers Bureau relationship with Brainlab; Speakers Bureau relationship with SI Bone; Research Grant Site Principal Investigator relationship with AO Spine; Research Grant Site Principal Investigator relationship with ISSG; Research Grant Site Principal Investigator relationship with ISSG; Research Grant Site Principal Investigator relationship |
| with NREF; Research Grant Site Principal Investigator relationship with PCORI |
| No Relevant Financial Relationships |
| No Relevant Financial Relationships Research Grant Site Principal Investigator relationship with 3 Spine; Research Grant Site Principal Investigator relationship with Premise Spine; Research Grant Site Principal Investigator relationship with 3 Spine; Research Grant Site Principal Investigator relationship with AO Spine NA; Research Grant Site Principal Investigator relationship with AO Spine NA; Fellowship director relationship with AO Spine NA; Fellowship director |
| NA; Research Grant Site Principal Investigator relationship with Premise Spine |
| Consultant relationship with DePuy Synthes Products, LLC |
| Speaker relationship with Globus; Research Grant Site Principal Investigator relationship with medtronic |
| No Relevant Financial Relationships |
| No Relevant Financial Relationships |
| No Relevant Financial Relationships |
| Research Grant Overall Principal Investigator relationship with Cervical Scoliosis Research Society; Speakers Bureau relationship with Globus Medical; Consultant relationship with Medtronic; Consultant relationship with Royal Biologics; Editorial or governing board relationship with Spine; Other financial or material support relationship with Cerapedics; Editorial or governing board relationship with Journal of Neurosurgery: Spine; Other financial or material support relationship with Spinevision; Consultant relationship with Terumo; Consultant relationship with SpineWave |
| |

| Patel, Alpesh (MD, MBA, FACS) | Consultant relationship with Johnson and Johnson; Scientific/Medical Advisory Board Member relationship with nView; Deputy Editor relationship with Journal of American Academy of Orthopaedic Surgeons; Consultant relationship with Alphatec; Consultant relationship with CTL Amedica; Investor relationship with Cytonics; Investor relationship with Nocimed; Consultant relationship with CTL Amedica; Investor relationship with Endoluxe; Investor relationship with TDI Inc; Consultant relationship with Xuros Biosciences; Consultant relationship with Depuy Synthes; Consultant relationship with Nuvasive; Consultant relationship with Nuvasive; Consultant relationship with Alphatec Research grant relationship with Medicrea; Research grant relationship with Pfizer; Research grant relationship with Mainstay Medical; Consultant relationship with Zimmer Biomet; Consultant relationship with Baxter Healthcare; Consultant relationship with Stryker; Consultant relationship with Aesculap; Consultant relationship with DePuy Synthes; Research grant |
|---------------------------------|--|
| Patel, Vikas (MD) | relationship with Spinal Kinetics |
| Pinter, Zachariah (MD) | No Relevant Financial Relationships |
| Prasarn, Mark (MD) | Speakers Bureau relationship with Stryker Spine |
| Protopsaltis, Themistocles (MD) | Consultant relationship with Medtronic; Stock Shareholder relationship with OnePoint Surgical; Research Grant Site Principal Investigator relationship with Medtronic; Consultant relationship with Stryker K2M; Consultant relationship with Altus; Consultant relationship with NuVasive; Consultant relationship with Globus |

| | Scientific/Medical Advisory Board Member relationship with Spinal Simplicity; Editorial Board relationship with Contemporary Spine Surgery; Scientific/Medical Advisory Board Member relationship with Lifelink.com; Consultant, Royalties relationship with Stryker K2M; Private investments relationship with Vital 5 (Past relationship); Private investments relationship with Tissue Differentiation Intelligence; 1) Publications Committee member |
|---------------------------|--|
| | (2019-2022) 2) Professiona relationship with Cervical Spine Research Society (CSRS); Ownership/Equity/Investment relationship with Tissue Differentiation Intelligence; Consultant relationship with Stryker K2M; 1) Program Committee member 2) Professional Society member 3 relationship with Society of Lateral Access Surgery; Clinical Events Committee member relationship with Simplify Medical, Inc.; Designer relationship with Stryker K2M; Royalties from Intellectual Property relationship with Stryker K2M; Speaker address relationship with RTI Surgical Inc. (Past relationship); Consultant relationship with Paradigm Spine (Past relationship); Consultant relationship with Surgalign; Honoraria relationship with AMOpportunities; Research Grant Site |
| | Principal Investigator relationship with Viseon, Inc.; Consultant relationship with Viseon, Inc.; Treasurer relationship with Minimally Invasive Spine Study Group; Consultant relationship with SpineGuard, Inc.; Stock Shareholder relationship with HS2, LLC; Consultant relationship with Globus Medical, Inc.; Speakers Bureau relationship with Globus Medical, Inc.; Scientific/Medical Advisory Board Member relationship with Spinal Simplicity, LLC; Clinical Experience Program relationship with AMOpportunities; Editorial Board/ |
| | Senior Associate Editor (2021-2024) relationship with Hospital Special Surgery Journal; Education Committee; 2021 Annual Meeting Program Chair relationship with International Society for the Advancement of Spine Surgery; Research Grant Overall Principal Investigator relationship with Viseon; Consultant relationship with Viseon; Consultant relationship with Suralign; Consultant relationship with SpineGuard, Inc.; Website Committee member; |
| | Professional Society member relationship with Lumbar Spine Research Society (LSRS); Professional Society member relationship with The American Orthopaedic Association; Consultant relationship with Viseon; Board of Directors (2021-2024) 4) relationship with Society of Minimally Invasive Spine Surgery (SMISS); Editorial Board relationship with HSS Journal Editorial Board/ Senior Associate Editor; Editorial board member relationship with Annals of |
| | Translational Medicine; 1) Program Committee member 2) Professional Society member relationship with Association of Bone and Joint Surgeons; Editorial board member relationship with Contemporary Spine Surgery; Royalties, Speakers' Bureau, Consultant relationship with Globus Medical, Inc.; Scientific/Medical Advisory Board Member relationship with Healthgrades |
| | (Past relationship); Consultant relationship with Spineguard; Ownership/Equity/Investment relationship with HS2, LLC; Ownership Interest relationship with HS2; Research Grant Overall Principal Investigator relationship with Viseon; Consultant relationship with Surgalign; Educational role relationship with AMOpportunities; Clinical Events Committee relationship with Simplify Medical; Consultant relationship with Globus Medical, Inc; Speakers Bureau relationship with Globus Medical Inc; Royalties |
| | relationship with Globus Medical, Inc; Ownership Interest relationship with Tissue Differentiation Intelligence; Royalties relationship with Stryker K2M; Designer relationship with Stryker K2M; Consulting Fees relationship with Stryker K2M; Political Engagement Cmtte; Payor Policy Review Cmtte; relationship with North American Spine Society; Consultant relationship with Surgalign; Scientific/Medical Advisory Board Member relationship with |
| Qureshi, Sheeraz (MD MBA) | LifeLink.com Inc. |
| Raad, Micheal (MD) | No Relevant Financial Relationships |
| Rawicki, Nathaniel (MD) | No Relevant Financial Relationships |
| Razzouk, Jacob (BS) | No Relevant Financial Relationships |

| Rhee, John (MD) | Speakers Bureau relationship with Stryker; Consultant relationship with Atec; Royalties relationship with Wolters Kluwer Publishing; Speakers Bureau relationship with Zimjmer Biomet; Royalties relationship with Zimmer Biomet; Speakers Bureau relationship with Medtronic; Royalties relationship with Stryker Consultant, Advisory Board Meetings relationship with Nuvasive; Consultant, Stock Shareholder relationship with HAPPE Spine; Corporate Board Member relationship with Global Spine Journal; Consultant relationship with HAPPE Spine; Stock Shareholder relationship with Benvenue Medical; Stock Shareholder relationship with Expanding Orthopedics; Stock Shareholder relationship with Axiomed; Stock Shareholder relationship with Spineology; Stock Shareholder relationship with Nuvasive; Stock Shareholders relationship with Nuvasive; Patent Holder relationship with Zimmer Biomet; Patent Holder relationship with Biomet Zimmer; Consultant relationship with Nuvasive; Corporate Board Member relationship with North American Spine Society; Patent Holder relationship with HAPPE Spine; Corporate Board Member relationship with Global Spine Journal; Stock Shareholder relationship with Nuvasive; |
|--|---|
| | Shareholder relationship with Spineology; Stock Shareholder relationship with Spinal Kinetics; Stock Shareholder relationship with Amedica; Stock Shareholder relationship with Vertiflex; Stock Shareholder relationship with Benvenue Medical; Stock Shareholder relationship with Paradigm Spine; Stock Shareholder relationship with Spinal Kinetics; Speakers Bureau relationship with Homeine Detect Hole Store St |
| Riew, K. Daniel (MD) | with Nuvasive; Patent Holder relationship with Nuvasive |
| Roca, Andrea (MA) | No Relevant Financial Relationships |
| Saijo, Yusuke (MD) Sasso, Rick (MD) | No Relevant Financial Relationships Consultant relationship with NuVasive; Patent Holder relationship with Medtronic Consultant relationship with DEGEN; Scientific/Medical Advisory Board |
| Satin, Alexander (MD) | Member relationship with AGADA; Research Grant Site Principal Investigator relationship with CSRS |
| Saturno, Michael (BA) | No Relevant Financial Relationships |
| Savage, Jason (MD) | Consultant relationship with Stryker Spine |
| Schallmo, Michael (MD) | No Relevant Financial Relationships |
| Schroeder, Gregory (MD) | Consultant relationship with Wolters Klewer, Stryker, Zimmer, Medtronic, Bioventus, RTI, |
| Segebarth, P. Bradley (MD) | Fellowship Support relationship with AO Spine North America; Fellowship Support relationship with Nuvasive |

| | Consultant relationship with Medtronic; Research Grant Site Principal |
|---------------------------------------|--|
| | Investigator relationship with ISSG Foundation; Research Grant Site Principal |
| | Investigator relationship with ISSG Foundation; Research Grant Site Principal Investigator relationship with ISSG Foundation; Consultant relationship with SI |
| | Bone; Consultant relationship with SI Bone; Consultant relationship with SI |
| | Bone; Patent Holder relationship with Si Done; Consultant relationship with Si Done; Patent Holder relationship |
| | with NuVasive; Patent Holder relationship with NuVasive; Patent Holder |
| | relationship with Medtronic; Patent Holder relationship with Medtronic; |
| | Consultant relationship with Medtronic; Consultant relationship with |
| | Medtronic; Patent Holder relationship with Medtronic; Research Grant Site |
| | Principal Investigator relationship with Department of Defense; Consultant |
| | relationship with Medtronic; Consultant relationship with NuVasive; Consultant relationship with NuVasive; Patent Holder, relationship with |
| | NuVasive; Patent Holder, relationship with NuVasive; Patent Holder, |
| | relationship with NuVasive; Research Grant Overall Principal Investigator |
| | relationship with ISSG Foundation; Research Grant Overall Principal |
| | Investigator relationship with ISSG Foundation; Research Grant Overall |
| | Principal Investigator relationship with ISSG Foundation; Consultant |
| | relationship with NuVasive; Consultant relationship with Medtronic; |
| | Consultant relationship with Medtronic; Patent holder, royalties relationship with Medtronic; Consultant relationship with SI Bone; Consultant relationship |
| | with SI Bone; Consultant relationship with SI Bone; Consultant relationship |
| | with Proprio; Consultant relationship with SI Bone; Research Grant Site |
| | Principal Investigator relationship with Department of Defense; Consultant |
| | relationship with Proprio; Research Grant Site Principal Investigator |
| Shaffroy Christophor (MD) | relationship with Department of Defense; Patent holder, royalties relationship |
| Shaffrey, Christopher (MD) | with Medtronic; Patent holder, royalties relationship with Medtronic |
| Shafi, Karim (MD) Shah, Akash (MD) | No Relevant Financial Relationships No Relevant Financial Relationships |
| | |
| Shahi, Pratyush (MBBS) | No Relevant Financial Relationships Consultant relationship with Depuy/J&J Research Grant Site Principal |
| Shankar, Ganesh (MD) | Investigator relationship with NuVasive |
| Sheldon, Alexandra (BS) | No Relevant Financial Relationships |
| | Research Grant Site Principal Investigator relationship with AO Spine; Patent |
| | Holder relationship with University of Utah; Research Grant Site Principal |
| Sherrod, Brandon (MD) | Investigator relationship with Cervical Spine Research Society |
| Shimer, Adam (MD) | Consultant relationship with Nuvasive; Consultant relationship with Medtronic; Consultant relationship with Cerapedics |
| | |
| SHIN, JAEWON (MD) | No Relevant Financial Relationships |
| Silva, Juan (BS) | No Relevant Financial Relationships |
| Singh, Devender (PhD) | No Relevant Financial Relationships Consultant relationship with Medtronic; Consultant relationship with MiRus; |
| Sivaganesan, Ahilan (MD) | Consultant relationship with Meditronic; Consultant relationship with Mikus; Consultant relationship with Stryker |
| Smith, Spencer (MD) | No Relevant Financial Relationships |
| Song, Junho (BS) | No Relevant Financial Relationships |
| Soufi, Khadija (BS) | No Relevant Financial Relationships |
| Spiker, Ryan (MD) | Medical Education relationship with Stryker |
| | speaker relationship with premia spine; Royalties relationship with Globus; |
| | Scientific/Medical Advisory Board Member relationship with Cerapedics; |
| | Consultant relationship with Globus; royalties relationship with Elsvier; |
| Steinmetz, Michael (MD) | royalties relationship with Zimmer Biomet |
| Stephens, Byron (MD, MSCI) | PI for research grant relationship with Stryker Spine; PI for research grant relationship with NuVasive |
| Su, Brian (MD) | No Relevant Financial Relationships |
| | No Relevant Financial Relationships |
| Suematsu, Yu (MD) | ino nelevalit filialitiai nelatiolisilips |

| Takahashi, Hiroshi (MD, PhD) | No Relevant Financial Relationships |
|---|--|
| Tamai, Koji (MD) | No Relevant Financial Relationships |
| TAMAOKA, TAKUYA (MD) | No Relevant Financial Relationships |
| Tang, Yifan (MD) | No Relevant Financial Relationships |
| Ton, Andy (B.S.) | No Relevant Financial Relationships |
| Tran, Jeremy (MD) | No Relevant Financial Relationships |
| Traynelis, Vincent (MD) | Consultant relationship with Medtronic; Consultant relationship with Thompson Surgical; IP relationship with NuVasive; Consultant relationship with NuVasive; Patent Holder relationship with Medtronic |
| Tretiakov, Peter (BS) | No Relevant Financial Relationships |
| Truumees, Eeric (MD) | No Relevant Financial Relationships |
| Uesugi, Go (MD) | No Relevant Financial Relationships |
| Upfill-Brown, Alexander (MD) | No Relevant Financial Relationships |
| Vleggeert-Lankamp, Carmen (MD MSc PhD) | Research Grant Site Principal Investigator relationship with Thromboembolic complications in Neurosurgery (Covidien), Fun |
| Wang, Jeffrey (M.D.) | Stock Shareholder relationship with surgitech; Consultant relationship with bioretec; Consultant relationship with epidutech; Consultant relationship with angitia; royalties relationship with Novapproach; options relationship with Pearldiver; investment relationship with bone biologics; investment relationship with electrocore; royalties relationship with Depuy Synthes; royalties relationship with Zimmer-Biomet; royalties relationship with Seaspine |
| Weinberg, Douglas (MD) | No Relevant Financial Relationships |
| Wilson, Jefferson (MD, PhD, FRCSC) | Consultant relationship with Stryker Canada |
| Woods, Barrett (MD) | Consultant relationship with Altus; Education relationship with Stryker; Product Design relationship with Medtronic; Consultant relationship with Altus; Consultant relationship with Altus |
| | Scientific/Medical Advisory Board Member relationship with Ulrich medical USA; Speakers Bureau relationship with Zimmer Biomet; Consultant relationship with Orthofix; Consultant relationship with Alphatec; Royalties |
| Wright, Neill (MD) | relationship with Alphatec |
| Yamaguchi, Naoki (MD) | No Relevant Financial Relationships |
| Yoshii, Toshitaka (MD-PhD) | No Relevant Financial Relationships |
| Zelenty, William (MD) | No Relevant Financial Relationships |
| Zygourakis, Corinna (MD) | Consultant relationship with Amgen; Consultant relationship with 7D; Consultant relationship with Stryker |