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# Steven C. Ludwig, MD

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Professor

Primary Appointment:

Orthopaedics

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## Education and Training

Robert Wood Johnson Medical School, MD

Thomas Jefferson University Hospital, Internship in General Surgery

Thomas Jefferson University Hospital, Residency in Orthopaedic Surgery

Emory University Hospital, Fellowship in Spine Surgery

# Biosketch

Dr. Ludwig is the head of the Division of Spine Surgery in the Department of Orthopaedics. He is a Professor of Orthopedics at the School of Medicine and oversees spinal surgery at the University of Maryland Medical Center, the R Adams Cowley Shock Trauma Center, the Baltimore VA Medical Center, and the University of Maryland Rehabilitation & Orthopaedic Institute.

Dr. Ludwig is a nationally and internationally distinguished academic orthopaedic surgeon whose specific areas of interest and clinical expertise include disorders of the cervical spine, minimally invasive spinal techniques, motion-preservation surgery, reconstruction of the traumatically injured spine, and tumor reconstruction.

He is an active member of the American Academy of Orthopaedic Surgeons, the North American Spine Society, the Cervical Spine Research Society, AO North American Spine, the Society for Minimally Invasive Spine Surgery, the American Orthopaedic Association, and the Orthopaedic Trauma Association. He was named a "Top Doctor" in the specialty of "Orthopaedic Surgery: Spine" by Baltimore magazine in 2016 and 2017.

# Highlighted Publications

Jazini E, Weir T, Nwodim E, Tannous O, Saifi C, Caffes N, Costales T, Koh E, Banagan K, Gelb D, Ludwig SC. Outcomes of lumbopelvic fixation in the treatment of complex sacral fractures using minimally invasive surgical techniques. Spine J 2017;17(9):1238–1246.

Jazini E, Klocke N, Tannous O, Johal HS, Hao J, Salloum K, Gelb DE, Nascone JW, Belin E, Hoshino CM, Hussain M, O'Toole RV, Bucklen B, Ludwig SC. Does lumbopelvic fixation add stability? A cadaveric biomechanical analysis of an unstable pelvic fracture model. J Orthop Trauma 2017;31(1):37–46.

Tannous O, Jazini E, Weir TB, Banagan KE, Koh EY, Anderson GD, Gelb DE, Ludwig SC. Facet joint violation during percutaneous pedicle screw placement: A comparison of two techniques. Spine (Phila Pa 1976) 2017;42(15):1189–1194.

Jazini E, Petraglia C, Moldavsky M, Tannous O, Weir T, Saifi C, Elkassabany O, Cai Y, Bucklen B, O'Brien J, Ludwig SC. Finding the right fit: Studying the biomechanics of under-tapping with varying thread depths and pitches. Spine J 2017;17(4):574–578.

Paryavi E, Yanko M, Jaffe D, Nimmgadda N, Nouveau J, Schiavone J, Gilotra M, Gelb D, Ludwig SC. Implantable direct current spinal fusion stimulators do not decrease implant-related infections in a rabbit model. Am J Orthop (Belle Mead NJ) 2014;43(5):E98–E104.

Coe JD, Vaccaro AR, Dailey AT, Sasso RC, Ludwig SC, Harrop JS, Dettori JR, Shaffrey CI, Emery SE, Fehlings MG. Lateral mass screw fixation in the cervical spine. J Neurosurg Spine 2014;20(5):592–596.

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