



EOS & sterEOS Key Publications

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Publications on EOS

- Fitzgerald R, Upasani VV, Bastrom TP, Bartley CE, Reighard FG, Yaszay B, Newton PO. Three-Dimensional Radiographic Analysis of Two Distinct Lenke 1A Curve Patterns. *Spine Deformity* 2019
- Esposito CI, Miller TT, Lipman JD, Carroll KM, Padgett DE, Mayman DJ, Jerabek SA. Biplanar Low-Dose Radiography Is Accurate for Measuring Combined Anteversion After Total Hip Arthroplasty. *HSS Journal* 2019
- Burkus M. 3D sagittal plane examination of the spino-pelvic complex in adolescent idiopathic scoliosis. PhD Thesis, 2019
- Toquart A, Barrey CY. Parameters of Spino-Pelvic Balance, Etiology and Pathogenesis of Disturbed Spino-Pelvic Balance. *Spine Surgery* 2019
- Barrey CY, Le Huec JC. Chronic low back pain: Relevance of a new classification based on the injury pattern. *Orthopaedics & Traumatology: Surgery & Research* 2019
- Lambert AS, Zhukouskaya V, Rothenbuhler A, Linglart A. X-Linked Hypophosphatemia: Management and Treatment Prospects. *Joint Bone Spine* 2019
- Fritz B, Agten CA, Boldt FK, Zingg PO, Pfirrmann CW, Sutter R. Acetabular coverage differs between standing and supine positions: model-based assessment of low-dose biplanar radiographs and comparison with CT. *European Radiology*, 2019
- Pasha S, Hassanzadeh P, Ecker M, Ho V. A hierarchical classification of adolescent idiopathic scoliosis: Identifying the distinguishing features in 3D spinal deformities. *PloS one*. 2019
- Bouloussa H, Pietton R, Vergari C, Haen TX, Skalli W, Vialle R. Biplanar stereoradiography predicts pulmonary function tests in adolescent idiopathic scoliosis: a cross-sectional study. *European Spine Journal*. 2019
- Almansour H, Pepke W, Rehm J, Bruckner T, Spira D, Akbar M. Interrater reliability of three-dimensional reconstruction of the spine: Low-dose stereoradiography for evaluating bracing in adolescent idiopathic scoliosis. *Der Orthopäde*. 2019
- Courvoisier A, Nesme M, Gerbelot J, Moreau-Gaudry A, Faure F. Prediction of brace effect in scoliotic patients: blinded evaluation of a novel brace simulator—an observational cross-sectional study. *European Spine Journal*. 2019

- Galbusera F, Niemeyer F, Wilke HJ, Bassani T, Casaroli G, Anania C, Costa F, Brayda-Bruno M, Sconfienza LM. Fully automated radiological analysis of spinal disorders and deformities: a deep learning approach. *European Spine Journal*. 2019
- Tschoeke SK. Thoracolumbar Instrumentation and Fusion for Degenerative Disc Disease. *Spine Surgery* 2019
- Franke J, Michalitsis S. Adjacent Segment Disease with 13 Years Follow Up and Five Operations. *Spine Surgery* 2019
- Knafo Y, Houfani F, Zaharia B, Egrise F, Clerc-Urmès I, Mainard D. Value of 3D Preoperative Planning for Primary Total Hip Arthroplasty Based on Biplanar Weightbearing Radiographs. *BioMed Research International* 2019
- Abdi AJ, Mussmann B, Mackenzie A, Klaerke B, Andersen PE. COMPARISON OF RADIATION EXPOSURE TO THE PATIENT AND CONTRAST DETAIL RESOLUTIONS ACROSS LOW DOSE 2D/3D SLOT SCANNER AND TWO CONVENTIONAL DIGITAL RADIOGRAPHY X-RAY IMAGING SYSTEMS. *Radiation Protection Dosimetry*. 2019
- Studer D, Heidt C, Büchler P, Hasler CC. Treatment of early onset spinal deformities with magnetically controlled growing rods: a single centre experience of 30 cases. *Journal of Children's Orthopaedics*. 2019"
- Grobost P, Boudissa M, Kerschbaumer G, Ruatti S, Tonetti J. Early versus delayed corpectomy in thoracic and lumbar spine trauma. A long-term clinical and radiological retrospective study. *Orthopaedics & Traumatology: Surgery & Research*. 2019
- Trac S, Zheng R, Hill DL, Lou E. Intra- and Interrater Reliability of Cobb Angle Measurements on the Plane of Maximum Curvature Using Ultrasound Imaging Method. *Spine Deformity* 2019
- Pasha S, Sankar WN, Castelein RM. The Link Between the 3D Spino-pelvic Alignment and Vertebral Body morphology in Adolescent Idiopathic Scoliosis. *Spine Deformity* 2019
- Alrehily F, Hogg P, Twiste M, Johansen S, Tootell AK. Scoliosis imaging : an analysis of radiation risk in the CT scan projection radiograph and a comparison with projection radiography and EOS. *Radiography* 2019
- Mussmann B, Jensen C, Bensen AS, Torfing T, Ovesen O, Overgaard S. Radiographic signs of acetabular retroversion using a low-dose slot-scanning radiographic system (EOS). *Radiography* 2019
- Ilharreborde B, Simon AL, Ferrero E, Mazda K. How to Optimize Axial Correction Without Altering Thoracic Sagittal Alignment in Hybrid Constructs With Sublaminar Bands: Description of the "Frame" Technique. *Spine Deformity* 2019

- Pepke W, Almansour H, Lafage R, Diebo BG, Wiedenhöfer B, Schwab F, Lafage V, Akbar M. Cervical spine alignment following surgery for adolescent idiopathic scoliosis (AIS): a pre-to-post analysis of 81 patients. *BMC Surgery* 2019
- Alzakri A, Vergari C, Van den Abbeele M, Gille O, Skalli W, Obeid I. Global Sagittal Alignment and Proximal Junctional Kyphosis in Adolescent Idiopathic Scoliosis. *Spine Deformity* 2019
- Kamal Z, Rouhi G, Arjmand N, Adeeb S. A stability-based model of a growing spine with adolescent idiopathic scoliosis: A combination of musculoskeletal and finite element approaches. *Medical Engineering & Physics* 2019
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- Tabard-Fougère A, Bonnefoy-Mazure A, Dhouib A, Valaikaite R, Armand S, Dayer R. Radiation-free measurement tools to evaluate sagittal parameters in AIS patients: a reliability and validity study. *European Spine Journal* 2019
- Zhao S, Qian B, Qiu Y, Qiao M, Liu Z, Huang J. The relationship between global spinal alignment and pelvic orientation from standing to sitting following pedicle subtraction osteotomy in ankylosing spondylitis patients with thoracolumbar kyphosis. *Archives of Orthopaedic and Trauma Surgery* 2019
- Esposito CI, Miller TT, Lipman JD, Carroll KM, Padgett DE, Mayman DJ, Jerabek SA. Biplanar Low-Dose Radiography Is Accurate for Measuring Combined Anteversion After Total Hip Arthroplasty. *HSS Journal* 2019
- Newton PO, Osborn EJ, Bastrom TP, Doan JD, Reighard FG. The 3D Sagittal Profile of Thoracic Versus Lumbar Major Curves in Adolescent Idiopathic Scoliosis. *Spine Deformity* 2019
- Trac S, Zheng R, Hill DL, Lou E. Intra- and Interrater Reliability of Cobb Angle Measurements on the Plane of Maximum Curvature Using Ultrasound Imaging Method. *Spine Deformity* 2019
- Fitzgerald R, Upasani VV, Bastrom TP, Bartley CE, Reighard FG, Yaszay B, Newton PO. Three-Dimensional Radiographic Analysis of Two Distinct Lenke 1A Curve Patterns. *Spine Deformity* 2019
- Pasha S, Sankar WN, Castelein RM. The Link Between the 3D Spino-pelvic Alignment and Vertebral Body morphology in Adolescent Idiopathic Scoliosis. *Spine Deformity* 2019
- Dagneaux L, Marouby S, Maillot C, Canovas F, Riviere C. Dual mobility device reduces the risk of prosthetic hip instability for patients with degenerated spine: A case-control study. *Orthopaedics and Traumatology: Surgery and Research* 2018

- Chung CL, Kelly DM, Steele JR, DiAngelo DJ. A mechanical analog thoracolumbar spine model for the evaluation of scoliosis bracing technology. *Journal of Rehabilitation and Assistive Technologies Engineering*
- Ilharreborde B, Pesenti S, Ferrero E, Accadbled F, Jouve JL, De Gauzy JS, Mazda K. Correction of hypokyphosis in thoracic adolescent idiopathic scoliosis using sublaminar bands: a 3D multicenter study. *Eur Spine J* 2018
- Sebaaly A, Grobost P, Mallam L, Roussouly P. Description of the sagittal alignment of the degenerative human spine. *Eur Spine J* 2018
- Bao HD, Shu SB, Shi J, Liu SN, Sun MH, Hu AN, Liu Z, Zhu ZZ, Qian BP, Qiu Y. [Similar coronal curvature may not represent the same 3-dimensional deformity in adolescent idiopathic scoliosis: a matched-pair study using EOS imaging system].. *Zhonghua yi xue za zhi* 2018
- Chung N, Cheng YH, Po HL, Ng WK, Cheung KC, Yung HY, Lai YM. Spinal phantom comparability study of Cobb angle measurement of scoliosis using digital radiographic imaging. *Journal of Orthopaedic Translation* 2018
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- Bahadir T, Werner J, Clair AJ, Walker PS. Guidelines for Instrumentation for Total Knee Replacement Based on Frontal Plane Radiographs. *Bulletin of the NYU Hospital for Joint Diseases* 2018
- Hasegawa K, Okamoto M, Hatsushikano S, Caseiro G and Watanabe K. Difference in whole spinal alignment between supine and standing positions in patients with adult spinal deformity using a new comparison method with slot- scanning three-dimensional X-ray imager and computed tomography through digital reconstructed radiography. *BMC musculoskeletal disorders* 2018
- Post M, Verdun S, Roussouly P, Abelin-Genevois K. New sagittal classification of AIS: validation by 3D characterization. *Eur Spine J* 2018
- Theologis A, Iyer S, Lenke LG, Sides BA, Kim HJ, Kelly MP. Cervical and Cervicothoracic Sagittal Alignment According to Roussouly's Thoracolumbar Subtypes. *Spine* 2018
- Kim SB, Heo YM, Hwang CM, Kim TG, Hong JY, Won YG, Ham CU, Min YK, Yi JW. Reliability of the EOS Imaging System for Assessment of the Spinal and Pelvic Alignment in the Sagittal Plane. *Clin Orthop Surg* 2018

- Iorio J, Lafage V, Lafage R, Henry JK, Stein D, Lenke LG Gupta M, Kelly MP, Sides B, Kim HJ. The Effect of Aging on Cervical Parameters in a Normative North American Population. *Global Spine J* 2018
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- Pasha S, Flynn J. Data-driven Classification of the 3D Spinal Curve in Adolescent Idiopathic Scoliosis with an Applications in Surgical Outcome Prediction. *Scientific Reports* 2018
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- Passmore E, Graham HK, Pandya MG, Sangeux M. Hip- and patellofemoral-joint loading during gait are increased in children with idiopathic torsional deformities. *Gait & Posture* 2018
- Roskopf A, Sutter R, Pfirmann C, Buck F. 3D hindfoot alignment measurements based on low-dose biplanar radiographs: a clinical feasibility study. *Skeletal Radiol.* 2018
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- Fader RR, Tao MA, Gaudiani MA, Turk R, Nwachukwu BU, Esposito CI, Ranawat AS. The role of lumbar lordosis and pelvic sagittal balance in femoroacetabular impingement. *The Bone & Joint Journal* 2018
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