

FULL LIST OF PUBLICATIONS

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PUBLICATIONS ON EOS

- Wu HD, Wong MS. Assessment of Maximum Spinal Deformity in Scoliosis: A Literature Review. *Journal of Medical and Biological Engineering*. 2020
- Kobayashi D, Choe H, Kobayashi N, Tezuka T, Ike H, Inaba Y. Association of Femoral Rotation With Whole-Body Alignment in Patients Who Underwent Total Hip Arthroplasty. *Arthroplasty Today*. 2020
- Albano D, Messina C, Gambino A, Gurgitano M, Sciabica C, Pavan GR, Gitto S, Sconfienza LM. Segmented lordotic angles to assess lumbosacral transitional vertebra on EOS. *European Spine Journal*. 2020
- Yeung KH, Man GC, Lam TP, Ng BK, Cheng JC, Chu WC. Accuracy on the preoperative assessment of patients with adolescent idiopathic scoliosis using biplanar low-dose stereoradiography: a comparison with computed tomography.. *BMC Musculoskeletal Disorders*. 2020
- Mayr HO, Schmidt JP, Haasters F, Bernstein A, Schmal H, Prall WC. Anteversion angle measurement in suspected torsional malalignment of the femur in 3-dimensional EOS versus computed tomography-a validation study. *The Journal of Arthroplasty*. 2020
- Lazennec JY, Kim Y, Folinais D, Pour AE. Sagittal Spinopelvic Translation Is Combined With Pelvic Tilt During the Standing to Sitting Position: Pelvic Incidence Is a Key Factor in Patients Who Underwent THA.. *Arthroplasty Today*. 2020
- Di Laura A, Henckel J, Wescott R, Hothi H, Hart AJ. The effect of metal artefact on the design of custom 3D printed acetabular implants. *3D Printing in Medicine*. 2020
- Moon HS, Choi CH, Jung M, Lee DY, Kim JH, Kim SH.. The effect of knee joint rotation in the sagittal and axial plane on the measurement accuracy of coronal alignment of the lower limb. *BMC Musculoskeletal Disorders*. 2020
- St-Georges M, Teles AR, Rabau O, Saran N, Ouellet JA, Ferland CE. Adolescent idiopathic scoliosis: evaluating perioperative back pain through a simultaneous morphological and biomechanical approach. *BMC Musculoskeletal Disorders*. 2020
- Dagneaux L, Dufrenot M, Bernasconi A, Bedard NA, de Cesar Netto C, Lintz F. Three-Dimensional Biometrics to Correlate Hindfoot and Knee Coronal Alignments Using Modern Weightbearing Imaging. *Foot & Ankle International*. 2020
- Cauchon AM, Tétreault P, Bascans C, Skalli W, Hagemeister N. Morphological and Radiological Parameters Correlating to Shoulder Function at Diagnosis for Patients with Rotator Cuff Tear (RCT). *Journal of Shoulder and Elbow Surgery*. 2020
- Skaggs K, Lin AJ, Andras LM, Illingworth KD, Skaggs DL. Standing in Schroth trained position significantly changes Cobb angle and leg length discrepancy: a pilot study. *Spine Deformity*. 2020
- Jud L, Roth T, Fünstahl P, Vlachopoulos L, Sutter R, Fucentese SF. The impact of limb loading and the measurement modality (2D versus 3D) on the measurement of the limb loading dependent lower extremity parameters. *BMC Musculoskeletal Disorders*. 2020
- Buckland AJ, Woo D, Vasquez-Montes D, Marks M, Jain A, Samdani A, Betz RR, Errico TJ, Lonner B, Newton PO. The Relationship Between 3-dimensional Spinal Alignment, Thoracic Volume, and Pulmonary Function in Surgical Correction of Adolescent Idiopathic Scoliosis: A 5-year Follow-up Study. *Spine*. 2020
- Berg BI, Laville A, Courvoisier DS, Rouch P, Schouman T. Experiences with a new biplanar low-dose X-ray device for imaging the facial skeleton: A feasibility study. *PloS one*. 2020
- Garg B, Mehta N, Bansal T, Malhotra R. EOS® imaging: Concept and current applications in spinal disorders. *Journal of Clinical Orthopaedics and Trauma*. 2020
- Mekhael M, Labaki C, Bizdikian AJ, Bakouny Z, Otayek J, Yared F, Massaad A, Skalli W, Ghanem I, Assi A. How do skeletal and postural parameters contribute to maintain balance during walking?. *Human Movement Science*. 2020
- Ball JR, Konigsberg MW, Plachta S, Fields MW, Matsumoto H, Roye BD, Arora S, Roye DP, Lenke LG, Skaggs DL, Vitale MG. Variability in stable sagittal vertebra (SSV) during full-length biplanar xrays can affect the choice of fusion levels in patients with adolescent idiopathic scoliosis (AIS). *Spine Deformity*. 2020

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- Shu S, Hu Z, Bao H, Shi J, Hu A, Grelat M, Liu Z, Sun X, Qian B, Cheng JC, Lam TP. An analysis of the interactions between the spine, pelvis, and lower limbs in asymptomatic adults with limited pelvic compensation.. *Quantitative Imaging in Medicine and Surgery*. 2020
- Wegner AM, Iyer S, Lenke LG, Kim HJ, Kelly MP. Global alignment and proportion (GAP) scores in an asymptomatic, nonoperative cohort: a divergence of age-adjusted and pelvic incidence-based alignment targets. *European Spine Journal*. 2020
- Lum ZC, Giordani M, Meehan JP. Total Hip Instability and the Spinopelvic Link. *Current Reviews in Musculoskeletal Medicine*. 2020
- Teles AR, St-Georges M, Abduljabbar F, Simões L, Jiang F, Saran N, Ouellet JA, Ferland CE. Back pain in adolescents with idiopathic scoliosis: the contribution of morphological and psychological factors.. *European Spine Journal*. 2020
- Carender CN, Meyer MD, Wynn MS, Bedard NA, Otero JE, Brown TS.. The Prevalence of Abnormal Spinopelvic Relationships in Patients Presenting for Primary Total Hip Arthroplasty. *Arthroplasty Today*. 2020
- Gaume M, Pietton R, Vialle R, Chaves C, Langlais T. Is daily walking distance affected in adolescent idiopathic scoliosis?. *Archives de Pédiatrie*. 2020
- Huang J, Tian F, Zhang Z, Shi W, Lin J, Chen L, Yang H. Reliability and concurrent validity of angle measurements in lower limb: EOS 3D goniometer versus 2D manual goniometer. *Journal of Orthopaedic Translation*. 2020
- von Treuheim TD, Li DT, Mikhail C, Cataldo D, Cooperman DR, Smith BG, Lonner B. Reliable skeletal maturity assessment for an AIS patient cohort: external validation of the proximal humerus ossification system (PHOS) and relevant learning methodology. *Spine deformity*. 2020
- Kluck D, Newton PO, Sullivan TB, Yaszay B, Jeffords M, Bastrom TP, Bartley CE. A 3D Parameter Can Guide Concave Rod Contour for the Correction of Hypokyphosis in Adolescent Idiopathic Scoliosis.. *Spine*. 2020
- Montreuil J, Saleh J, Cresson T, De Guise JA, Lavoie F. Femoral Tunnel Placement Analysis in ACL Reconstruction Through Use of a Novel 3-Dimensional Reference With Biplanar Stereoradiographic Imaging.. *Orthopaedic Journal of Sports Medicine*. 2020
- Pedersen PH, Petersen AG, Ostgaard SE, Tvedebrink T, Eiskjær SP.. How Many Dosemeters are Needed for Correct Mean Organ Dose Assessment When Performing Phantom Dosimetry? A Phantom Study Evaluating Liver Organ Dose and Investigating TLD Numbers and Ways of Dosemeter Placement.. *Radiation Protection Dosimetry*. 2020.
- Jalil AS, Sobhan AM, Babae MM. Evaluation of the Normal Range of Thoracic Kyphosis and Lumbar Lordosis Angles Using EOS Imaging. *Mædica*. 2020
- Vergari C, Skalli W, Gajny L. A convolutional neural network to detect scoliosis treatment in radiographs.. *International Journal of Computer Assisted Radiology and Surgery*. 2020
- Floyd E, Cohn P, Ferguson J, Kalantar SB. A Review of Preoperative Planning Technologies for Spinal Deformity Correction. *Seminars in Spine Surgery* 2020
- Wise KL, Kelly BJ, Agel J, Murette S, Macalena JA. Reliability of EOS compared to conventional radiographs for evaluation of lower extremity deformity in adult patients. *Skeletal Radiology*. 2020
- Watanabe S, Choe H, Kobayashi N, Ike H, Kobayashi D, Higashihira S, Inaba Y. Utility of CT-based navigation in revision total hip arthroplasty for a patient with severe posterior pelvic tilt-case report. *BMC Musculoskeletal Disorders*. 2020
- Hughes JL, Newton PO, Bastrom T, Fabricant PD, Pennock AT. The Clavicle Continues to Grow During Adolescence and Early Adulthood. *HSS Journal*, 2020
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- Shu S, Gu Q, Zhang T, Zhu Z, Liu Z, Qiu Y, Bao H. Skeletal growth velocity of adolescent idiopathic scoliosis: abnormal in spine but normal in lower limbs. *Annals of Translational Medicine*. 2020
- Powell J, Gibly R, Faulk W, Mayer SW, O'Donnell CM. Can EOS imaging substitute traditional AP pelvis radiographs? A Comparative study. *Orthopaedic Journal of Sports Medicine*. 2020
- Zheng Q, Shellikeri S, Huang H, Hwang M, Sze RW. Deep learning measurement of leg length discrepancy in children based on radiographs.. *Radiology*. 2020

- Karam M, Bizdikian AJ, Khalil N, Bakouny Z, Obeid I, Ghanimeh J, Labaki C, Mjaess G, Karam A, Skalli W, Kharrat K, Ghanem I, Assi A.. Alterations of 3D acetabular and lower limb parameters in adolescent idiopathic scoliosis.. *European Spine Journal* . 2020
- Rampal V, Rohan PY, Pillet H, Bonnet-Lebrun A, Fonseca M, Desailly E, Wicart P, Skalli W. Combined 3D analysis of lower-limb morphology and function in children with idiopathic equinovarus clubfoot: A preliminary study. *Orthopaedics & Traumatology: Surgery & Research*. 2020
- Tillaux C. Radiographie biplanaires des membres inférieurs chez l'enfant en microdose: évaluation de la qualité diagnostique et des reconstructions 3D des membres inférieurs. *Medical thesis*. 2019
- Mjaess G, Karam A, Labaki C, Karam M, Bakouny Z, Ghanimeh J, Saliby RM, Bizdikian AJ, Ghanem I, Assi A. What is the most reliable radiographic method to evaluate the longitudinal foot arch? Application in subjects with Adolescent Idiopathic Scoliosis. *Orthopaedics & Traumatology: Surgery & Research*. 2020
- Vergari C, Karam M, Pietton R, Vialle R, Ghanem I, Skalli W, Assi A. Spine slenderness and wedging in adolescent idiopathic scoliosis and in asymptomatic population: an observational retrospective study.. *European Spine Journal*. 2020
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- Clavel L, Rémy-Neris S, Skalli W, Rouch P, Lespert Y, Similowski T, Sandoz B, Attali V. Cervical spine hyperextension and altered posturo-respiratory coupling in patients with obstructive sleep apnea syndrome. *Frontiers in Medicine*. 2020
- Hu Z, Man GC, Yeung KH, Cheung WH, Chu WC, Law SW, Lam TP, Zhu Z, Qiu Y, Cheng JC. Age-and Gender-related Normative Value of Whole-body Sagittal Alignment Based on 584 Asymptomatic Chinese Adult Population From Age 20 to 89. *Spine*. 2019
- Hey HW, Ng NL, Loh KY, Tan YH, Tan KA, Moorthy V, Lau ET, Liu G, Wong HK. Sagittal Radiographic Parameters of the Spine in Three Physiological Postures Characterized Using a Slot Scanner and Their Potential Implications on Spinal Weight-Bearing Properties. *Asian Spine Journal*. 2020
- Machino M, Kawakami N, Ohara T, Saito T, Tauchi R, Imagama S. Accuracy of rib cage parameters from 3-Dimensional reconstruction images obtained using simultaneous biplanar radiographic scanning technique in adolescent idiopathic scoliosis: Comparison with conventional computed tomography.. *Journal of Clinical Neuroscience*. 2020
- Ould-Slimane M, Cantogrel P, Lefèvre E, Parent HF, Gauthé R. Minimally invasive unilateral lumbar interbody fusion (UNILIF) in over-80-year-olds. Continuous series of 42 patients at 1.4 years' follow-up. *Orthopaedics & Traumatology: Surgery & Research*. 2020
- Abrisham SM, Ardekani MR, Zarch MA. Evaluation of the Normal Range of Thoracic Kyphosis and Lumbar Lordosis Angles Using EOS Imaging.. *Maedica A Journal of Clinical Medicine*. 2020
- Pratali RD, Daher MT, Meves R. Biplanar imaging with tridimensional capabilities: applicability of this new examination to spinal deformities. *Coluna/Columna* 2020
- Ilharreborde B, de Saint Etienne A, Presedo A, Simon AL. Spinal sagittal alignment and head control in patients with cerebral palsy. *Journal of Children's Orthopaedics*. 2020
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- Lee YC, Lee R. Minimal invasive surgical algorithm for revision lumbar spinal surgery. *Journal of Spine Surgery*. 2019
- Vigdorchik JM, Sharma AK, Feder OI, Buckland AJ, Mayman DJ, Carroll KM, Sculco PK, Long WJ, Jerabek SA. Stiffness After Total Knee Arthroplasty: Is It a Result of Spinal Deformity?. *The Journal of Arthroplasty*. 2020
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- Gu J, Feng H, Feng X, Zhou Y. Degeneration of three or more lumbar discs significantly decreases lumbar spine/hip ROM ratio during position change from standing to sitting in AVN patients before THA.. *BMC Musculoskeletal Disorders*. 2020
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- Dubousset, J. The EOS System: Overall Assessment of Balance of the Vertebral Column and Its Movements. *Spinal Anatomy*, 2020
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- Pasha, S.. 3D Deformation Patterns of S Shaped Elastic Rods as a Pathogenesis Model for Spinal Deformity in Adolescent Idiopathic Scoliosis. *Scientific reports*, 2019
- Chiyanka, C., & Chu, W. C. W.. Weight-bearing Imaging in Adolescent Idiopathic Scoliosis. *Seminars in musculoskeletal radiology*, 2019
- DelSole, E. M., & Mercuri, J. J.. Utility of Upright Weight-bearing Imaging in Total Hip Arthroplasty. *Seminars in musculoskeletal radiology*, 2019
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- Ferrero, E., Skalli, W., Lafage, V., Maillot, C., Carlier, R., Feydy, A., ... & Guigui, P.. Relationships between radiographic parameters and spinopelvic muscles in adult spinal deformity patients.. *European Spine Journal*, 2019
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- Hasegawa, K., Okamoto, M., Hatsushikano, S., Shimoda, H., Sato, Y., & Watanabe, K. Etiology and clinical manifestations of double-level versus single-level lumbar degenerative spondylolisthesis. *Journal of Orthopaedic Science*, 2019
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- Almansour, H., Pepke, W., Bruckner, T., Diebo, B. G., & Akbar, M.. Three-Dimensional Analysis of Initial Brace Correction in the Setting of Adolescent Idiopathic Scoliosis. *Journal of clinical medicine*. 2019
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- Haider, I. T., Schneider, P. S., & Edwards, W. B.. The Role of Lower-Limb Geometry in the Pathophysiology of Atypical Femoral Fracture. *Current osteoporosis reports*, 2019
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EOSedge system: Digital diagnostic X-ray system.

Manufacturer: EOS imaging

EC conformity assessment: GMED CE0459, Class IIb.

Caution: US Federal law restricts this device to sale by or on the order of the physician.

Please read carefully the labeling provided

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