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1 Kinematic Evaluation of Cervical Sagittal Balance and Thoracic Inlet Alignment in 2 Degenerative Cervical Spondylolisthesis using kMRI Permsak Pahpolak MD^{1,2}, Alexander Nazareth BS¹, Patrick C. Hsieh MD³, Zorica Buser PhD¹, Jeffrey 3 4 C. Wang MD¹ 5 ¹Department of Orthopaedic Surgery, Keck School of Medicine, University of Southern California, 6 Los Angeles 7 ²Department of Orthopaedics, Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand ³Department of Neurological Surgery, Keck School of Medicine, University of Southern California, 8 9 Los Angeles 10 Corresponding author: 11 Zorica Buser PhD 12 Department of Orthopaedic Surgery, Keck School of Medicine, University of Southern California 13 Elaine Stevely Hoffman Medical Research Center, HMR 710 14 2011 Zonal Ave, Los Angeles, CA 90033 15 Phone: +1 323-442-0206 16 Email: zbuser@usc.edu 17 18 Acknowledgment: The study was supported by departmental funds. Authors would like to thank AiM 19 20 Radiology Medical Group, especially to Yusuf A. Khan, Sameer U. Khan and Aziza Qadir MD for

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