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Comparison of Minimally Invasive Spine Surgery Using Intraoperative 1 **Computed Tomography Integrated Navigation, Fluoroscopy and Conventional** 2 Open Surgery for Lumbar Spondylolisthesis: A Prospective Registry-based 3 **Cohort Study** 4 Meng-Huang Wu,^{1,2,3}, Navneet Kumar Dubey⁴, Yen-Yao Li^{5,6}, Ching-Yu Lee^{5,6}, 5 Chin-Chang Cheng^{5,6}, Chung-Sheng Shi³, Tsung-Jen Huang^{1,2}* 6 7 ¹Department of Orthopedics, Taipei Medical University Hospital, Taipei, Taiwan ²Department of Orthopaedics, School of Medicine, College of Medicine, Taipei 8 Medical University, Taipei, Taiwan 9 ³Graduate Institute of Clinical Medical Sciences, College of Medicine, Chang Gung 10 University, Taiwan 11 ⁴Graduate Institute of Biomedical Materials and Tissue Engineering, College of 12 Biomedical Engineering, Taipei Medical University, Taipei, Taiwan 13 ⁵Department of Orthoapedic Surgery, Chang Gung Memorial Hospital, Chiayi, 14 Taiwan 15 ⁶School of Medicine, Chang Gung University, Taoyuan, Taiwan 16 17

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