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Title: How does sagittal imbalance affect the appropriateness of surgical indications and selection of procedure in the treatment of degenerative scoliosis? findings from the RAND auc study

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## ACCEPTED MANUSCRIPT

How does sagittal imbalance affect the appropriateness of surgical indications and selection of procedure in the treatment of degenerative scoliosis?

- 1 **Title:** How does sagittal imbalance affect the appropriateness of surgical indications and selection of procedure in the treatment of degenerative scoliosis? Findings from the RAND AUC 2 3 study 4 Authors: Michael D. Daubs, MD; Harsimran S. Brara, MD; Laura B. Raaen, MPH; Peggy Guey-5 Chi Chen, MD, MSc, MHS;<sup>3</sup> Ashaunta T. Anderson, MD, MPH, MS;<sup>3,4</sup> Steven M. Asch, MD, 6 7 MPH;<sup>5,6</sup> Tervl K. Nuckols, MD, MSHS<sup>3,7</sup> 8 9 **Affiliations:** 1. UNLV Department of Orthopaedic Surgery, UNLV School of Medicine. Las Vegas, NV, 10 11 89102 2. Kaiser Permanente Southern California, Los Angeles, CA 90027 12 13 3. RAND Corporation, Santa Monica, CA 90407 4. University of California Riverside School of Medicine, Division of Clinical Sciences, 14 School of Medicine Research Building, Riverside, CA 92521 15 5. VA Palo Alto Health Care System, Menlo Park, CA, 94025 16 6. Stanford University, Palo Alto, CA. 94305 17 7. Cedars-Sinai Medical Center, Division of General Internal Medicine, Los Angeles, CA 18 19 90048 20 Corresponding Author's name and complete mailing address: 21 Teryl Nuckols, MD, MSHS 22 23 **RAND Corporation** 24 1776 Main Street 25 Santa Monica, CA 90401 310-393-0411 x 5236 26 27 teryl@rand.org 28 Acknowledgments: We would like to acknowledge the work of the Degenerative Lumbar 29 Scoliosis Appropriateness Group: Samuel Bederman, MD, PhD; Sigurd Berven, MD; Harsimran S. 30 Brara, MD; Julie Fritz, PhD, PT, ATC; Standiford Helm, II, MD, MBA; Kenneth Lyles, MD; John 31 O'Toole, MD, MS; Charles A. Reitman, MD; Christopher Shaffrey, MD; Gwendolyn Sowa, MD, 32 PhD; Christopher Standaert, MD. We would also like to acknowledge Lance Tan for his 33 34 considerable contributions to this project. 35 36
- 37 Keywords: degenerative lumbar scoliosis; surgical decision-making; appropriateness; quality of
- 38 care; outcomes

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