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ACCEPTED MANUSCRIPT

1 A Reliability and Validity Study for Different Coronal Angles using Ultrasound Imaging 2 in Adolescent Idiopathic Scoliosis Rob C. Brink, MD¹ 3 Sebastiaan P.J. Wijdicks, MD¹ 4 Isabel N. Tromp, BSc¹ 5 Tom P.C. Schlösser, MD, PhD¹ 6 Moyo C. Kruyt, MD, PhD¹ 7 Frederik J.A. Beek, MD, PhD² 8 René M. Castelein, MD, PhD¹ 9 10 From the ¹Department of Orthopaedic Surgery, University Medical Center Utrecht, Utrecht, 11 The Netherlands; ²Department of Radiology, University Medical Center Utrecht, Utrecht, 12 13 The Netherlands. 14 15 **Correspondence:** 16 Before publication: R.C. Brink, MD, Department of Orthopaedic Surgery, G05.228, 17 University Medical Center Utrecht, P.O. Box 85500, 3508 GA Utrecht, The Netherlands; Tel: +31887554578; Fax: +31302510638; E-mail: r.c.brink@umcutrecht.nl 18 19 After publication: R.M. Castelein, MD PhD, Department of Orthopaedic Surgery, G05.228, 20 University Medical Center Utrecht, P.O. Box 85500, 3508 GA Utrecht, The Netherlands; Tel: +31887554578; Fax: +31302510638; E-mail: r.m.castelein@umcutrecht.nl. 21 22 23 **Abstract**

Background context. Radiation exposure remains a big concern in adolescent idiopathic

scoliosis (AIS). Ultrasound imaging of the spine could significantly reduce or possibly even

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