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| **Supplementary Table S1.** Within-day intra-tester reliability of lordotic sitting posture on Day 2 |
| Angle | **Tester 1** | **Tester 2** | **Tester 3** |
| **ICC (95%CI)** | **SEM** | **MDC** | **ICC (95%CI)** | **SEM** | **MDC** | **ICC (95%CI)** | **SEM** | **MDC** |
| HE | 0.98(0.97-0.99) | 1.00 | 2.8 | 0.98(0.96-0.99) | 1.08 | 3.0 | 0.95(0.92-0.98) | 1.37 | 3.8 |
| NE | 0.97(0.94-0.98) | 0.72 | 2.0 | 0.95(0.91-0.97) | 0.68 | 1.9 | 0.94(0.90-0.97) | 0.75 | 2.1 |
| HT | 0.98(0.97-0.99) | 0.91 | 2.53 | 0.98(0.97-0.99) | 0.95 | 2.6 | 0.97(0.94-0.98) | 0.99 | 2.7 |
| CT | 0.99(0.98-0.99) | 0.52 | 1.44 | 0.98(0.96-0.99) | 0.78 | 2.2 | 0.95(0.91-0.97) | 0.90 | 2.5 |
| TH | 0.99(0.98-0.99) | 0.62 | 1.7 | 0.99(0.99-1.00) | 0.42 | 1.2 | 0.99(0.98-0.99) | 0.64 | 1.7 |
| TL | 0.98(0.97-0.99) | 0.58 | 1.6 | 0.99(0.98-0.99) | 0.40 | 1.1 | 0.94(0.90-0.97) | 0.74 | 2.0 |
| LU | 0.99(0.98-0.99) | 1.72 | 4.8 | 0.99(0.99-1.00) | 0.98 | 2.7 | 0.98(0.96-0.99) | 1.12 | 3.1 |
| PE | 0.98(0.96-0.99) | 0.61 | 1.7 | 0.99(0.98-0.99) | 0.44 | 1.2 | 0.96(0.94-0.98) | 0.93 | 2.6 |
| The ICC3,k model for intra-tester reliability within day was based on a two-way mixed-effect ANOVA model. The k reflects the number of measurements from which the mean value was calculated (k=5).Abbreviations. LSP, lordotic sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; SEM, standard error of measurement; MDC, minimal detectible change; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle |

**Supplementary material**

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| **Supplementary Table S2.** Within-day intra-tester reliability of neutral sitting posture on Day 2 |
| Angle | **Tester 1** | **Tester 2** | **Tester 3** |
| **ICC (95%CI)** | **SEM** | **MDC** | **ICC (95%CI)** | **SEM** | **MDC** | **ICC (95%CI)** | **SEM** | **MDC** |
| HE | 0.97(0.95-0.99) | 1.27 | 3.5 | 0.98(0.97-0.99) | 1.04 | 2.9 | 0.96(0.93-0.98) | 1.28 | 3.5 |
| NE | 0.97(0.95-0.99) | 0.66 | 1.8 | 0.97(0.95-0.98) | 0.56 | 1.5 | 0.98(0.95-0.99) | 0.52 | 1.4 |
| HT | 0.97(0.96-0.99) | 1.08 | 3.0 | 0.98(0.97-0.99) | 0.87 | 2.4 | 0.98(0.96-0.99) | 0.88 | 2.4 |
| CT | 0.96(0.94-0.98) | 0.80 | 2.2 | 0.98(0.97-0.99) | 0.64 | 1.8 | 0.95(0.91-0.98) | 0.82 | 2.3 |
| TH | 0.98(0.96-0.99) | 0.69 | 1.9 | 0.97(0.95-0.99) | 0.73 | 2.0 | 0.98(0.96-0.99) | 0.68 | 1.9 |
| TL | 0.98(0.97-0.99) | 0.61 | 1.7 | 0.98(0.97-0.99) | 0.55 | 1.5 | 0.98(0.97-0.99) | 0.62 | 1.7 |
| LU | 0.96(0.94-0.98) | 0.92 | 2.6 | 0.97(0.95-0.98) | 0.80 | 2.2 | 0.96(0.93-0.98) | 0.91 | 2.5 |
| PE | 0.97(0.95-0.99) | 0.58 | 1.6 | 0.98(0.96-0.99) | 0.51 | 1.4 | 0.97(0.95-0.98) | 0.55 | 1.5 |
| The ICC3,k model for intra-tester reliability within day was based on a two-way mixed-effect ANOVA model. The k reflects the number of measurements from which the mean value was calculated (k=5).Abbreviations. NSP, neutral sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; SEM, standard error of measurement; MDC, minimal detectible change; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle |

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| **Supplementary Table S3.** Within-day intra-tester reliability for lordotic sitting posture using mean of 3 measurements for Day 1 and Day 2 |
| **Angles** | **Tester 1** | **Tester 2** | **Tester 3** |
| **ICC (95%CI)** | **ICC (95%CI)** | **ICC (95%CI)** |
| **Day 1** | **Day 2** | **Day 1** | **Day 2** | **Day 1** | **Day 2** |
| HE | 0.96(0.93-0.98) | 0.97(0.94-0.98) | 0.98(0.96-0.99) | 0.96(0.93-0.98) | 0.96(0.91-0.98) | 0.93(0.86-0.97) |
| NE | 0.92(0.85-0.96) | 0.95(0.91-0.98) | 0.93(0.86-0.97) | 0.91(0.84-0.96) | 0.92(0.85-0.96) | 0.88(0.78-0.94) |
| HT | 0.94(0.88-0.97) | 0.96(0.93-0.98) | 0.97(0.94-0.99) | 0.97(0.93-0.98) | 0.94(0.89-0.97) | 0.94(0.88-0.97) |
| CT | 0.97(0.94-0.98) | 0.97(0.94-0.99) | 0.97(0.94-0.99) | 0.96(0.93-0.98) | 0.96(0.89-0.98) | 0.92(0.84-0.96) |
| TH | 0.98(0.97-0.99) | 0.99(0.98-0.99) | 0.99(0.97-0.99) | 0.99(0.98-0.99) | 0.97(0.94-0.99) | 0.98(0.96-0.99) |
| TL | 0.97(0.95-0.99) | 0.98(0.96-0.99) | 0.98(0.96-0.99) | 0.97(0.95-0.99) | 0.96(0.91-0.98) | 0.94(0.88-0.97) |
| LU | 0.98(0.95-0.99) | 0.99(0.97-0.99) | 0.99(0.98-0.99) | 0.99(0.98-0.99) | 0.97(0.92-0.99) | 0.97(0.94-0.99) |
| PE | 0.95(0.91-0.98) | 0.96(0.93-0.98) | 0.98(0.96-0.99) | 0.98(0.95-0.99) | 0.97(0.94-0.98) | 0.97(0.95-0.99) |
| The ICC3,k model for intra-tester reliability within day was based on a two-way mixed-effect ANOVA model. The k reflects the number of measurements from which the mean value was calculated (k=3).Abbreviations. LSP, lordotic sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; SEM, standard error of measurement; MDC, minimal detectible change; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle |

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| **Supplementary Table S4.** Within-day intra-tester reliability for neutral sitting posture using mean of 3 measurements for Day 1 and Day 2 |
|  | **Tester 1** | **Tester 2** | **Tester 3** |
| **Angles** | **ICC (95%CI)** | **ICC (95%CI)** | **ICC (95%CI)** |
| **Day 1** | **Day 2** | **Day 1** | **Day 2** | **Day 1** | **Day 2** |
| HE | 0.94(0.88-0.97) | 0.96(0.92-0.98) | 0.96(0.93-0.98) | 0.97(0.95-0.99) | 0.91(0.84-0.96) | 0.95(0.90-0.98) |
| NE | 0.95(0.91-0.98) | 0.95(0.91-0.98) | 0.95(0.91-0.98) | 0.94(0.89-0.97) | 0.96(0.92-0.98) | 0.97(0.93-0.98) |
| HT | 0.96(0.93-0.98) | 0.96(0.93-0.98) | 0.96(0.93-0.98) | 0.97(0.95-0.99) | 0.94(0.89-0.97) | 0.97(0.94-0.99) |
| CT | 0.93(0.86-0.95) | 0.94(0.89-0.97) | 0.96(0.92-0.98) | 0.97(0.94-0.98) | 0.93(0.87-0.97) | 0.93(0.86-0.96) |
| TH | 0.99(0.98-0.99) | 0.97(0.95-0.99) | 0.98(0.97-0.99) | 0.97(0.93-0.98) | 0.99(0.97-0.99) | 0.97(0.94-0.98) |
| TL | 0.98(0.96-0.99) | 0.97(0.94-0.99) | 0.98(0.96-0.99) | 0.97(0.95-0.99) | 0.94(0.89-0.97) | 0.98(0.95-0.99) |
| LU | 0.93(0.86-0.96) | 0.93(0.86-0.97) | 0.95(0.90-0.97) | 0.94(0.88-0.97) | 0.96(0.93-0.98) | 0.94(0.89-0.97) |
| PE | 0.95(0.91-0.98) | 0.94(0.89-0.97) | 0.96(0.92-0.98) | 0.95(0.91-0.98) | 0.96(0.93-0.98) | 0.96(0.93-0.98) |
| The ICC3,k model for intra-tester reliability within day was based on a two-way mixed-effect ANOVA model. The k reflects the number of measurements from which the mean value was calculated (k=3).Abbreviations. NSP, neutral sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; SEM, standard error of measurement; MDC, minimal detectible change; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle |

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| **Supplementary Table S5.** Between-day intra-tester reliability of lordotic sitting posture |
| **Angles** | **Tester 1** | **Tester 2** | **Tester 3** |
| **ICC (95%CI)** | **ICC (95%CI)** | **ICC (95%CI)** |
| **3 measurements** | **5 measurements** | **3 measurements** | **5 measurements** | **3 measurements** | **5 measurements** |
| HE | 0.75(0.45-0.89) | 0.74(0.44-0.88) | 0.81(0.57-0.91) | 0.81(0.57-0.91) | 0.74(0.41-0.88) | 0.70(0.35-0.87) |
| NE | 0.78(0.51-0.90) | 0.79(0.54-0.91) | 0.73(0.40-0.88) | 0.78(0.55-0.91) | 0.81(0.58-0.91) | 0.80(0.55-0.91) |
| HT | 0.24(-0.35-0.62) | 0.29(-0.26-0.64) | 0.15(-0.44-0.55) | 0.20(-0.38-0.59) | -0.05(-0.80-0.45) | -0.08(-0.82-0.43) |
| CT | 0.92(0.78-0.97) | 0.93(0.84-0.97) | 0.94(0.86-0.97) | 0.94(0.86-0.97) | 0.82(0.59-0.92) | 0.84(0.63-0.93) |
| TH | 0.90(0.77-0.95) | 0.92(0.82-0.96) | 0.93(0.86-0.97) | 0.93(0.85-0.97) | 0.87(0.71-0.94) | 0.88(0.74-0.95) |
| TL | 0.76(0.47-0.89) | 0.77(0.49-0.90) | 0.79(0.52-0.90) | 0.78(0.50-0.90) | 0.68(0.27-0.86) | 0.70(0.32-0.87) |
| LU | 0.91(0.80-0.96) | 0.92(0.81-0.96) | 0.96(0.92-0.98) | 0.98(0.95-0.99) | 0.95(0.89-0.98) | 0.94(0.88-0.97) |
| PE | 0.75(0.44-0.89) | 0.77(0.50-0.90) | 0.78(0.51-0.90) | 0.81(0.57-0.91) | 0.75(0.47-0.89) | 0.73(0.40-0.88) |
| The ICC3,2 model for intra-tester reliability between days was based on a two-way mixed-effect ANOVA model. The second value (‘2’) indicates the number of days from which the mean value was calculated.Abbreviations. LSP, lordotic sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle |

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| **Supplementary Table S6.** Between-day intra-tester reliability of neutral sitting posture |
| **Angles** | **Rater 1** | **Rater 2** | **Rater 3** |
| **ICC (95%CI)** | **ICC (95%CI)** | **ICC (95%CI)** |
| **3 measurements** | **5 measurements** | **3 measurements** | **5 measurements** | **3 measurements** | **5 measurements** |
| HE | 0.74(0.42-0.88) | 0.80(0.55-0.91) | 0.86(0.67-0.94) | 0.88(0.67-0.95) | 0.81(0.57-0.91) | 0.77(0.49-0.89) |
| NE | 0.90(0.78-0.95) | 0.90(0.78-0.96) | 0.78(0.51-0.90) | 0.79(0.54-0.91) | 0.85(0.66-0.93) | 0.85(0.66-0.93) |
| HT | 0.11(-0.42-0.52) | 0.13(-0.38-0.52) | 0.09(-0.49-0.51) | 0.08(-0.49-0.50) | -0.03(-0.70-0.45) | -0.11(-0.81-0.41) |
| CT | 0.83(0.63-0.92) | 0.86(0.70-0.94) | 0.91(0.80-0.96) | 0.92(0.83-0.97) | 0.86(0.67-0.94) | 0.87(0.70-0.94) |
| TH | 0.95(0.89-0.98) | 0.95(0.89-0.98) | 0.94(0.88-0.97) | 0.93(0.86-0.97) | 0.93(0.84-0.97) | 0.93(0.85-0.97) |
| TL | 0.93(0.84-0.97) | 0.92(0.82-0.96) | 0.89(0.75-0.95) | 0.91(0.79-0.96) | 0.91(0.80-0.96) | 0.91(0.80-0.96) |
| LU | 0.88(0.72-0.94) | 0.89(0.76-0.95) | 0.92(0.83-0.97) | 0.90(0.78-0.96) | 0.89(0.75-0.95) | 0.89(0.75-0.95) |
| PE | 0.71(0.36-0.87) | 0.74(0.43-0.88) | 0.70(0.33-0.86) | 0.67(0.27-0.85) | 0.70(0.34-0.87) | 0.71(0.36-0.87) |
| The ICC3,2 model for intra-tester reliability between days was based on a two-way mixed-effect ANOVA model. The second value (‘2’) indicates the number of days from which the mean value was calculated.Abbreviations. NSP, neutral sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle |

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| **Supplementary Table S7.** Inter-tester reliability of lordotic sitting posture with 3 or 5 measurements |
| **Angles** | **Day 1** | **Day 2** |
| **ICC (95%CI)** | **ICC (95%CI)** |
| **3** **measurements** | **5** **measurements** | **3** **measurements** | **5** **measurements** |
| HE | 0.94(0.88-0.97) | 0.95(0.88-0.98) | 0.94(0.88-0.97) | 0.94(0.88-0.97) |
| NE | 0.94(0.88-0.97) | 0.94(0.88-0.97) | 0.86(0.73-0.93) | 0.87(0.75-0.94) |
| HT | 0.96(0.92-0.98) | 0.95(0.91-0.98) | 0.95(0.90-0.97) | 0.95(0.91-0.98) |
| CT | 0.95(0.91-0.98) | 0.96(0.90-0.98) | 0.95(0.90-0.97) | 0.94(0.88-0.97) |
| TH | 0.98(0.96-0.99) | 0.98(0.96-0.99) | 0.97(0.95-0.99) | 0.98(0.96-0.99) |
| TL | 0.95(0.91-0.98) | 0.96(0.93-0.98) | 0.93(0.87-0.97) | 0.93(0.86-0.97) |
| LU | 0.96(0.89-0.98) | 0.96(0.86-0.98) | 0.95(0.84-0.98) | 0.95(0.82-0.98) |
| PE | 0.96(0.92-0.98) | 0.97(0.92-0.98) | 0.93(0.85-0.97) | 0.94(0.87-0.97) |
| The ICC2,3 model for inter-tester reliability on the same was based on a two-way random-effects ANOVA model. The second value (‘3’) indicates the number of testers performing the measurements.Abbreviations. LSP, lordotic sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle |

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| **Supplementary Table S8.** Inter-tester reliability of neutral sitting posture with 3 or 5 measurements |
| **Angles** | **Day 1** | **Day 2** |
| **ICC (95%CI)** | **ICC (95%CI)** |
| **3****measurements** | **5****measurements** | **3****measurements** | **5****measurements** |
| HE | 0.93(0.86-0.97) | 0.94(0.89-0.97) | 0.95(0.91-0.98) | 0.95(0.91-0.98) |
| NE | 0.91(0.81-0.96) | 0.92(0.83-0.96) | 0.93(0.86-0.97) | 0.92(0.85-0.96) |
| HT | 0.95(0.90-0.98) | 0.96(0.91-0.98) | 0.97(0.93-0.98) | 0.96(0.92-0.98) |
| CT | 0.94(0.88-0.97) | 0.95(0.91-0.98) | 0.94(0.87-0.97) | 0.94(0.89-0.97) |
| TH | 0.96(0.92-0.98) | 0.96(0.91-0.98) | 0.97(0.93-0.99) | 0.97(0.93-0.99) |
| TL | 0.96(0.93-0.98) | 0.96(0.92-0.98) | 0.96(0.92-0.98) | 0.97(0.94-0.98) |
| LU | 0.93(0.88-0.97) | 0.95(0.90-0.97) | 0.95(0.91-0.98) | 0.96(0.92-0.98) |
| PE | 0.96(0.92-0.98) | 0.97(0.94-0.98) | 0.96(0.92-0.98) | 0.96(0.93-0.98) |
| The ICC2,3 model for inter-tester reliability on the same was based on a two-way random-effects ANOVA model. The second value (‘3’) indicates the number of testers performing the measurements.Abbreviations. NSP, neutral sitting posture; ICC, intraclass correlation coefficient; CI, confidence interval; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle. |

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| **Supplementary Table S9.** Comparison of lordotic and neutral sitting posture |
| **Angles** | **Tester 1** | **Tester 2** | **Tester 3** |
| **LSP-NSP** | **LSP-NSP** | **LSP-NSP** |
| HE | t=-12.021, p=0.000 | t=-7.504, p=0.000 | t=-10.861, p=0.000 |
| NE | t=-4.471, p=0.000 | t=-3.004, p=0.005 | t=-3.097, p=0.005 |
| HT | t=1.291, p=0.208 | t=1.783, p=0.087 | t=2.624, p=0.015 |
| CT | t=10.072, p=0.000 | t=8.150, p=0.000 | t=9.224, p=0.000 |
| TH | t=0.943, p=0.354 | t=5.184, p=0.000 | t=1.319, p=0.199 |
| TL | t=-1.674, p=0.107 | t=-0.638, p=0.529 | t=-0.825, p=0.417 |
| LU | t=8.840, p=0.000 | t=9.543, p=0.000 | t=8.867, p=0.000 |
| PE | t=13.336, p=0.000 | t=15.038, p=0.000 | t=13.121, p=0.000 |
| Abbreviations. LSP, lordotic sitting posture; NSP, neutral sitting posture; HE, head angle; NE, neck angle; HP, HT, head tilt angle; CT, cervico-thoracic angle; TH, thoracic angle; TL, thoraco-lumbar angle; LU, lumbar angle; PE, pelvis angle. |