

CORRECTION

Correction: Measurements agreement between low-cost and high-level handheld 3D scanners to scan the knee for designing a 3D printed knee brace

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[Table 3](#) is incorrect. Please see the corrected [Table 3](#) here.



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Table 3. Agreement between iSense and EVA scanners. Comparing the absolute and relative means of the three iSense scan measurements (N = 14) and means of the three EVA scan measurements (N = 14), limits of agreement, coefficient of repeatability within methods and uniformity of the data for each section of the lower limb going from 300mm below the mid-patella (0mm) to 180mm above the mid-patella.

| Sections (mm) | Aver. circ. in mm | Abs. mean diff. in mm (SE) | Rel. mean diff. in % (SE) | iSense vs EVA | | | Repeatability iSS/EVA |
|---------------|-------------------|----------------------------|---------------------------|--|-----------------------------|--------------------------|-----------------------|
| | | | | 95% Limit of Agreement (Mean ± 1.96SD) | | | |
| | | | | Abs. Lower – Abs. Upper (mm) | Rel. Lower – Rel. Upper (%) | Abs. SE (mm)/Rel. SE (%) | |
| 180 | 523.9 | 10.2 (2.6) | 2.0 (0.5) | -8.2 – 28.6 | -1.6 – 5.5 | 18.1/0.7 | 8.6/6.0 |
| 150 | 498.4 | 9.3 (2.4) | 1.9 (0.5) | -8.3 – 26.8 | -1.7 – 5.5 | 15.5/0.7 | 7.8/5.3 |
| 120 | 468.4 | 9.1 (2.3) | 2.0 (0.5) | -7.7 – 25.9 | -1.7 – 5.6 | 14.3/0.7 | 7.3/4.8 |
| 90 | 440.7 | 10.6 (2.0) | 2.5 (0.5) | -4.3 – 25.5 | -1.0 – 5.9 | 10.7/0.6 | 7.4/5.3 |
| 60 | 420.5 | 13.4 (1.9) | 3.2 (0.5) | -0.6 – 27.3 | -0.3 – 6.7 | 8.4/0.5 | 8.4/7.1 |
| 30 | 409.2 | 13.5 (1.9) | 3.3 (0.5) | -0.5 – 27.5 | -0.2 – 6.9 | 9.1/0.6 | 7.9/5.6 |
| 0 | 394.2 | 11.4 (2.1) | 2.9 (0.5) | -4.3 – 27.0 | -1.1 – 6.9 | 11.5/0.7 | 8.7/5.9 |
| -30 | 371.2 | 13.5 (2.1) | 3.7 (0.6) | -2.0 – 29.1 | -0.5 – 7.8 | 12.1/0.9 | 7.7/3.6 |
| -60 | 365.9 | 18.4 (2.1) | 5.0 (0.6) | 3.0 – 33.8 | 0.8 – 9.2 | 11.4/0.9 | 9.0/3.0 |
| -90 | 378.4 | 19.6 (2.4) | 5.2 (0.6) | 2.3 – 36.8 | 0.6 – 9.7 | 14.4/1.0 | 9.9/3.5 |
| -120 | 390.6 | 17.8 (2.3) | 4.6 (0.6) | 1.3 – 34.4 | 0.3 – 8.8 | 13.2/0.9 | 9.6/3.8 |
| -150 | 391.3 | 14.7 (2.2) | 3.8 (0.6) | -1.5 – 31.0 | -0.5 – 8.1 | 12.8/0.9 | 9.3/3.8 |
| -180 | 377.1 | 12.2 (2.7) | 3.3 (0.8) | -7.3 – 31.6 | -2.2 – 8.7 | 18.8/1.5 | 9.9/4.7 |
| -210 | 350.7 | 10.9 (3.1) | 3.2 (0.9) | -11.5 – 33.3 | -3.6 – 10.0 | 25.5/2.4 | 10.2/5.2 |
| -240 | 320.8 | 11.2 (3.3) | 3.6 (1.1) | -13.3 – 35.7 | -4.5 – 11.7 | 30.8/3.4 | 10.8/5.3 |
| -270 | 292.4 | 12.6 (3.4) | 4.4 (1.3) | -12.7 – 37.8 | -4.8 – 13.6 | 32.7/4.4 | 11.3/5.0 |
| -300 | 267.8 | 14.7 (3.7) | 5.6 (1.5) | -12.6 – 41.9 | -5.3 – 16.4 | 38.6/6.2 | 11.6/4.5 |

Aver., average; circ., circumference; abs., absolute; diff., difference; SE, 95% confidence interval; rel., relative; iSS, iSense

A positive bias or limits of agreement indicates that measurements from iSense scanner overestimates the value in respect to EVA scanner.

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Reference

1. Dessery Y, Pallari J (2018) Measurements agreement between low-cost and high-level handheld 3D scanners to scan the knee for designing a 3D printed knee brace. PLoS ONE 13(1): e0190585. <https://doi.org/10.1371/journal.pone.0190585> PMID: 29320560