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| Specimen number | Straight/bowed | Right/Left | Mineral: collagen |
| 1 | Straight | L | 8.06 |
| 2 | Straight | R | 8.80 |
| 3 | Straight | L | 8.61 |
| 4 | Straight | R | 8.56 |
| 5 | Straight | L | 8.77 |
| 6 | bowed | R | 8.36 |
| 7 | bowed | L | 8.09 |
| 8 | bowed | L | 7.44 |
| 9 | bowed | R | 8.15 |
| 10 | bowed | R | 7.34 |
|  | Straight | Mean (s.d.) | 8.56 (0.30) |
|  | Bowed | Mean (s.d.) | 7.94 (0.38) |
|  |  | p-value | 0.020 |

Supplementary Table 1: The laterality and deformity status are given for each specimen along with the average mineral: collagen (phosphate: Amide III) value. The p-value is the statistical significance comparing the mineral to collagen ratio for the straight and bowed bones, as determined by ANOVA.