**Supplemental material 1: forelimb and vertebral measurements**

Measurements of forelimb elements and vertebral centra of CM 2386.

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| **Scapula** |  |  |
| Glenoid fossa, length |  | 17.6 |
| Glenoid fossa, width |  | >13.1 |
| **Humerus** |  |  |
| Humeral head major axis length | 20.1 | 20.4 |
| Humeral head minor axis length | 19.3 | 18.2 |
| Humeral head height | 9.2 | 10.5 |
| (from epiphyseal plate) |  |  |
| Distal transverse width | 34.0 |  |
| (parallel to capitulum and trochlea) |  |  |
| Width of capitulum and trochlea | 20.8 |  |
| Angulation of trochlea | 32° |  |
| Anteroposterior depth at trochlear notch | 8.2 | 8.0 |
| **Radius** |  |  |
| Anteroposterior depth of radial head | 9.9 | 10.0 |
| Width of radial head | 13.4 | 13.5 |
| **Ulna** |  |  |
| Olecranon length |  | 19.8 |
| (from midpoint of semilunar notch) |  |  |
| Depth at olecranon process |  | 14.6 |
| **Thoracic centrum lengths (complete only)** |  |  |
| 12.7, 14.3, 14.8, 15.4, 16.5, 17.9, 19.9 | | |
| **Lumbar centrum lengths (complete only)** |  |  |
| 20.1, 21.9, 24.1, 24.8, 25.1 | | |