Table S1. Age and pathology measurements/scores for horses included in the study.

Institution/ID	Category	Estimated age	Estimated sex	Nuchal ossification score (1-6)	Medial depth (mm)	Lateral depth (mm)	Naso-incisve width	Era
NMM 12	ridden	2.25 (2–2.5)	indeterminate	1	0.698	NA	NA	archaeological (Pazyryk)
Personal collection	ridden	4	female	3/2	1.17	0.466	10.462	modern
NMNH 174960	ridden	6 (5–7)	male	5	2.071	0.828	13.881	modern
KNNP 2	ridden	6.5 (6–7)	female	NA	0.603	0.558	9.815	modern
NMM 11	ridden	8.5 (8–9)	male	4	1.459	1.03	9.193	archaeological (Turkic)
NMNH 172454	ridden	8	male	3/2	1.955	0	8.382	modern
NMNH 843	ridden	9 (8–10)	male	5	1.107	0.239	11.293	modern
MSB 56502	ridden	10	male	5	0.471	0	9.65	modern
MSB 193704	ridden	10.5 (10–11)	male	5	1.081	0.943	11.408	modern
NMM 13	ridden	16	male	NA	1.174	0.712	11.039	archaeological (Pazyryk)
NNV 6	ridden	25.5 (16–35)	male	6	1.741	0	9.233	modern
NMNH 174968	ridden	25.5 (16–35)	female	5	1.656	0.435	12.555	modern
NMNH 270900	ridden	25.5 (16–35, historically documented age = 35)	male	6	1.756	0.82	9.117	modern
Ridden mean	–	**12.096154**	–	**4.272727**	**1.303231**	**0.502583**	–	–

NMM 18	DSK	0.875 (0.75–1)	indeterminate	NA	0.696	0	11.075	archaeological (Bronze Age)
NMM 10	DSK	2.25 (2–2.5)	indeterminate	2	0.505	0	6.517	archaeological (Bronze Age)
NMM 27	DSK	7.5 (6–9)	male	NA	0.954	0.613	11.692	archaeological (Bronze Age)
NMM 8	DSK	6.5 (6–7)	male	4	1.488	0.871	9.546	archaeological (Bronze Age)
NMM 28	DSK	10.5 (9–12)	male	4	0.813	0	9.081	archaeological (Bronze Age)
NMM 30	DSK	13.5 (13–14)	male	NA	1.662	0.702	10.842	archaeological (Bronze Age)
NMM 2	DSK	14.5 (14–15)	indeterminate	5	NA	NA	NA	archaeological (Bronze Age)
NMM 3	DSK	27.5 (20–35)	female	4	1.821	1.879	11.726	archaeological (Bronze Age)
NMM 1	DSK	27.5 (20–35)	indeterminate	NA	0.61	0.551	11.564	archaeological (Bronze Age)
NMM 9	DSK	27.5 (20–35)	male	4	1.576	0	7.98	archaeological (Bronze Age)
DSK mean	–	**9.9975**	–	**3.833333**	**1.125**	**0.512889**	–	–
MSB 198378	Feral *E. caballus*	1.5 (1–2)	indeterminate	3/2	0.164	0	8.138	modern
NNV 4	Feral *E. caballus*	2.5	indeterminate	2/1	0.518	0	8.865	modern

NNV 2	Feral *E. caballus*	5.5 (5–6)	male	2	1.281	0	12.837	modern
MSB 146537	Feral *E. caballus*	5	female	1	0.493	0	10.533	modern
NMNH 395180	Feral *E. caballus*	5	indeterminate	1	0.735	0	10.658	modern
MSB 150587	Feral *E. caballus*	6	female	4	0.693	0	10.761	modern
NMNH 268938	Feral *E. caballus*	7.5 (7–8)	female	2/1	0.413	0.272	10.826	modern
NNV 1	Feral *E. caballus*	8.5 (8–9)	male	5	0.577	0	10.252	modern
NNV 3	Feral *E. caballus*	8.5 (8–9)	male	3/2	0	0	8.518	modern
NNV 5	Feral *E. caballus*	9	male	1	0.739	0.709	11.239	modern
NMNH 302898	Feral *E. caballus*	10.5 (10–11)	female	2	0.261	0.279	10.412	modern
NMNH 395432	Feral *E. caballus*	25.5 (16–35)	female	3/2	1.034	0.25	11.468	modern
Feral mean	**–**	**7.91667**	**–**	**2.208333**	**0.575667**	**0.125833**	**–**	**–**
MSB 54743	Zoo *E. Przewalskii*	5.5	male	4	0.998	0	11.405	modern
NMNH 238111	Zoo *E. Przewalskii*	5.5 (5–6)	male	5	0.942	0	8.578	modern

ID	Species	Age	Sex					Period
NMNH 311033	Zoo *E. Przewalskii*	25.5(16–35)	female	2	1.097	0	9.254	modern
NMNH 582088	Zoo *E. Przewalskii*	6	female	3/2	1.343	0.056	9.613	modern
NMNH 582467	Zoo *E. Przewalskii*	8	female	5	0.928	0	10.115	modern
NMNH 582910	Zoo *E. Przewalskii*	7	male	5	0.837	0.794	11.262	modern
Zoo mean	–	**9.58333**	–	**3.916667**	**1.024167**	**0.141667**	–	–
KNNP 1	Wild *E. Przewalskii*	6(5–7)	male	3	0.393	0	11.909	modern
Wild *E. przewalskii* mean	–	**6**	–	**3**	**0.393**	**0**	–	–

MSB = Museum of Southwestern Biology; NMM = National Museum of Mongolia; NMNH = Smithsonian National Museum of Natural History; KNPP = Khustai Nuruu National Park, Mongolia; NNV = Navajo Nation Veterinary Clinic, Chinle, Arizona; sex estimated based on presence/absence of four adult canines.