



Mathematical models to define growth patterns in indigenous horses of India

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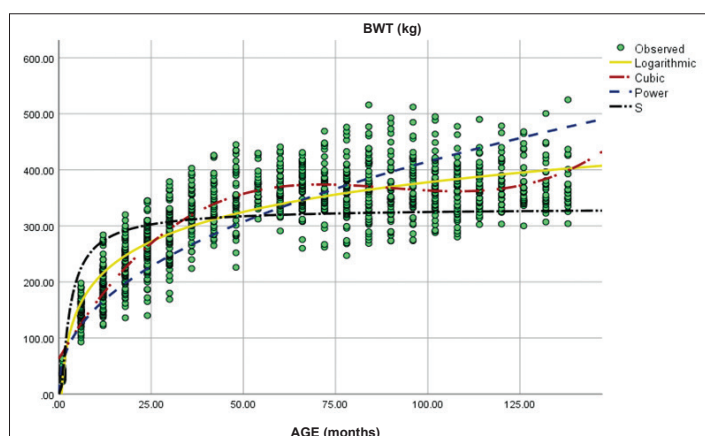
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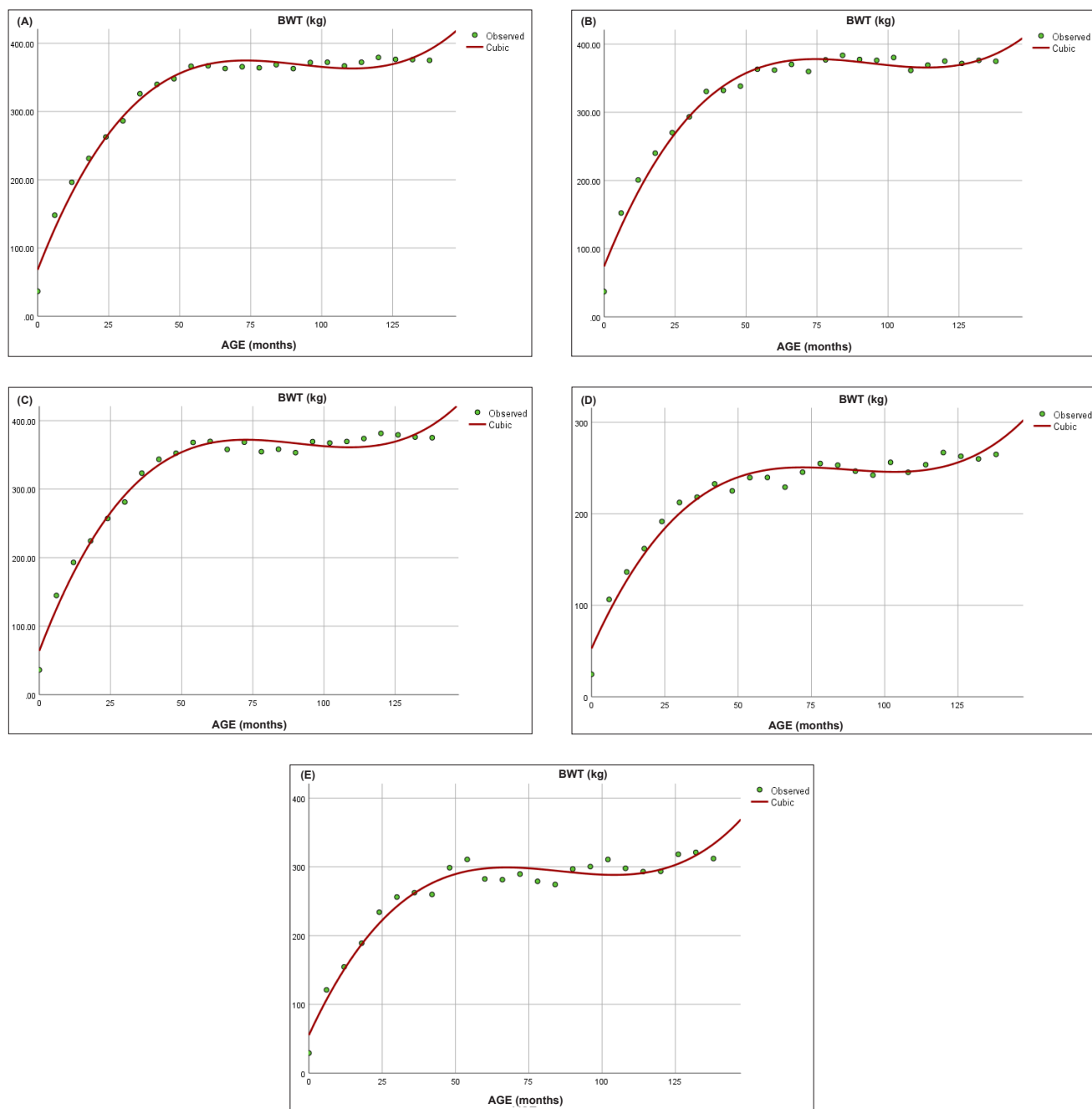
Supplementary Table 1. Observed and deviation of predicted body weight of Marwari horses derived using Logarithmic, Cubic, Power and S mathematical functions

Age	Observed body weight (Y)	Per cent absolute deviation of predicted body weight ($\hat{Y}$)			
		Logarithmic	Cubic	Power	S
Birth	36.51±0.88 ^a (61)	28.13	103.02	55.03	13.12
6 Month	148.03±2.62 ^b (69)	10.12	15.14	17.02	51.81
12 Month	196.38±4.34 ^c (74)	9.96	8.65	15.58	39.19
18 Month	231.32±4.83 ^d (68)	6.72	2.71	14.60	26.14
24 Month	262.72±5.59 ^e (64)	2.33	0.19	14.84	14.75
30 Month	286.35±5.87 ^f (66)	0.17	2.85	13.95	7.36
36 Month	326.07±6.24 ^g (46)	8.06	2.00	18.23	4.48
42 Month	339.77±6.70 ^{gh} (39)	8.30	0.24	16.12	7.47
48 Month	348.02±7.98 ^{hi} (41)	7.55	1.54	13.24	9.04
54 Month	366.39±5.54 ^{ij} (28)	9.73	0.80	13.29	13.12
60 Month	367.08±5.69 ^{ij} (39)	7.71	0.74	9.41	12.91
66 Month	363.04±5.47 ^{ij} (51)	4.68	2.75	4.55	11.62
72 Month	365.68±7.07 ^{ij} (42)	3.55	2.22	1.61	12.00
78 Month	364.09±6.94 ^{ij} (52)	1.45	2.37	2.30	11.40
84 Month	368.63±8.15 ^{ij} (49)	1.13	0.49	4.33	12.30
90 Month	362.91±7.87 ^{ij} (48)	1.88	1.28	9.19	10.75
96 Month	371.83±7.88 ^j (45)	0.76	1.91	9.59	12.75
102 Month	372.22±7.17 ^j (46)	1.90	2.59	12.38	12.72
108 Month	366.91±6.99 ^{ij} (43)	4.56	1.42	16.86	11.34
114 Month	372.22±6.42 ^j (37)	4.18	2.54	17.92	12.50
120 Month	379.23±7.27 ^j (32)	3.28	3.38	18.33	14.03
126 Month	376.44±8.39 ^j (27)	5.04	0.85	21.75	13.31
132 Month	376.07±9.21 ^j (25)	6.09	2.07	24.35	13.15
138 Month	375.01±11.08 ^j (20)	7.29	6.38	27.12	12.84

Values with different superscripts differed significantly ($P < 0.05$). Body weight in kg.



Supplementary Fig. 1. Fitting of regression models on observed values of body weight of Marwari horses taken at 6 months interval.



Supplementary Fig. 2. Fitting of Cubic regression model on average values of body weight of horses taken a 6 months interval; (A) Marwari, (B) Marwari Male, (C) Marwari Female, (D) Manipuri and (E) Zanskari.