Mathematical models to define growth patterns in indigenous horses of India

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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

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

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.