

**Supplementary Item 1:** Details of the study population.

| | Year of birth | Gender | Breed | Body mass (kg) | Discipline |
|-----------|----------------------|---------------|--------------------|-----------------------|----------------------|
| 1 | 2007 | Mare | Baden-Württemberg | 450 | Jumping/Dressage A |
| 2 | 2011 | Gelding | Frisian | 553 | No competition |
| 3 | 2009 | Mare | Hannoveraner | 569 | Jumping/Dressage A/L |
| 4 | 2012 | Mare | Oldenburger | 536 | Dressage A |
| 5 | 2007 | Gelding | KWPN | 572 | Dressage M/S |
| 6 | 2007 | Mare | Westfalen | 570 | Jumping S |
| 7 | 2011 | Mare | KWPN | 560 | Jumping L |
| 8 | 2012 | Mare | Holsteiner | 532 | Jumping A/L |
| 9 | 2002 | Gelding | Holsteiner | 652 | No competition |
| 10 | 2008 | Mare | Hanoveraner | 510 | Jumping L |
| 11 | 2011 | Mare | British sporthorse | 498 | Jumping L |
| 12 | 2007 | Mare | Irish sporthorse | 608 | Jumping A/L |