

Table S3: The age, sex, glycogen synthase 1 (GYS1) mutation status, number of horses with PAS positive aggregates and number of horses with 4 or more fibres with desmin aggregates for control, type 2 polysaccharide storage myopathy (PSSM2) and myofibrillar myopathy (MFM) presented by breed (Warmblood (WB) and Arabian (AR)).

| | Warmblood | | | Arabian | | |
|-------------------|------------------|------------------|------------------------|------------|-------------|---------------|
| | Control | PSSM2 | MFM | Control | PSSM2 | MFM |
| N | 54 | 55 | 37 | 30 | 18 | 30 |
| Age (y) | 8.6 ± 4.3 | 9.7 ± 4.7 | 10.1 ± 4.8 | 12.4 ± 5.9 | 13.2 ± 3.8 | 13.9 ± 5.7 |
| Sex | 20 f, 33 mc, 1 s | 19 f, 34 mc, 2 s | 15 f, 19 mc, 2 s, 1 un | 22 f, 8 mc | 10 f, 8 mc | 18 f, 12 mc |
| GYS1 mutation | neg | neg | neg | nd | 9 neg, 9 nd | 13 neg, 17 nd |
| PAS aggregates | 0 | 55 | 24 | 0 | 18 | 18 |
| Desmin aggregates | 0 | 24 | 37 | 0 | 18 | 30 |

f = female; mc = male castrate; s = stallion; un = unknown

neg = negative; nd = not done

GYS1 = glycogen synthase 1

PAS= periodic acid Schiff's

PSSM2 = Polysaccharide storage myopathy type 2

MFM = Myofibrillar Myopathy