

Table S3: Description of the study sample.

Group	No	Breed	Age (y)	Sex	Body-weight (kg)	Dominant insufficiency			Additional insufficiencies			Audible Heart sounds
						Valve	Murmur Grade (1-6/6)	Severity score	Valve	Murmur Grade (1-6/6)*	Severity	
HC	1	Warmblood	18	mc	505	-	-	-	Aorta	-	trivial	S1, S2
									Mitral	-	trivial	
									Pulmonic	-	trivial	
HC	2	Warmblood	6	mc	500	-	-	-	Mitral	-	trace	S1, S2
HC	3	Standardbred	14	mc	470	-	-	-	Pulmonic	-	trace	S1, S2, S3
									Tricuspid	-	trace	
HC	4	Standardbred	14	mc	540	-	-	-	Mitral	-	trivial	S1, S2, S3
									Pulmonic	-	trivial	
									Tricuspid	-	trivial	
HC	5	Warmblood	13	mc	520	-	-	-	Aortic	-	trivial	S1, S2
									Tricuspid	-	trace	
HC	6	Warmblood	18	mc	540	-	-	-				S1, S2
HC	7	Warmblood	5	f	530	-	-	-				S1, S2, S3
HC	8	Warmblood	6	mc	530	-	-	-				S1, S2
HC	9	Warmblood	15	mc	580	-	-	-	Tricuspid	3/6	mild	S1, S2
HC	10	Warmblood	18	f	575	-	-	-	Aortic	-	trivial	S1, S2
HC	11	Warmblood	15	f	500	-	-	-				S1, S2
HC	12	Warmblood	6	f	525	-	-	-				S1, S2
HC	13	Warmblood	15	f	575	-	-	-				S1, S2
HC	14	Warmblood	7	f	575	-	-	-				S1, S2
HC	15	Warmblood	9	f	500	-	-	-				S1, S2
HC	16	Warmblood	10	f	575	-	-	-				S1, S2
HC	17	Warmblood	12	mc	550	-	-	-				
MI	1	Warmblood	10	mc	570	Mitral	3/6	mild	-		-	S1, S2
MI	2	Warmblood	18	f	370	Mitral	3/6	mild	-		-	S1, S2

MI	3	Warmblood	20	mc	470	Mitral	4/6	mild	-	-	S1, S2	
MI	4	Warmblood	20	f	540	Mitral	4/6	mild	-	-	S1, S2	
MI	5	Warmblood	28	m	530	Mitral	4/6	mild	Aorta	-	trivial	S1, S2, S4
MI	6	Warmblood	12	f	620	Mitral	4/6	mild	Pulmonic	-	trivial	S1, S2
MI	7	Warmblood	9	f	600	Mitral	3/6	mild	Aorta	-	trivial	S1, S2
									Pulmonic	-	trivial	
MI	8	Warmblood	19	f	570	Mitral	3/6	mild	Aorta	-	trivial	S1, S2, S4
									Pulmonic	-	trivial	
MI	9	Warmblood	17	mc	600	Mitral	3/6	mild	Aortic	-	trivial	S, S2, S4
									Pulmonic	-	trivial	
MI	10	Warmblood	19	f	650	Mitral	3/6	mild	Aortic	-	trivial	S1, S2
									Pulmonic	-	trivial	
MI	11	Andalusian	14	m	510	Mitral	4/6	mild	Aortic	-	trivial	S1, S2
									Tricuspid	2/6	trace	
MI	12	Warmblood	8	mc	610	Mitral	3/6	mild	Aorta	-	trivial	S1, S2
									Pulmonic	-	trivial	
MI	13	Warmblood	5	f	480	Mitral	3/6	mild	Aorta	-	trivial	S1, S2, S4
									Pulmonic	2/6	mild	
MI	14	Warmblood	18	f	690	Mitral	2/6	mild	Aortic	-	trace	S1, S2, S4
									Tricuspid	-	trivial	
MI	15	Warmblood	9	f	520	Mitral	2/6	mild	Aortic	-	trivial	S1, S2
									Pulmonic	-	trivial	
									Tricuspid	2/6	mild	
MI	16	Warmblood	9	mc	605	Mitral	3/6	mild	Aortic	-	trivial	S1, S2
									Pulmonic	-	trace	
									Tricuspid	2/6	mild	
MI	17	Warmblood	7	f	530	Mitral	3/6	mild	Aortic	-	trace	S1, S2, S4
									Pulmonic	-	trace	
									Tricuspid	-	trivial	
MI	18	Warmblood	16	mc	540	Mitral	3/6	mild	Aortic	-	trace	S1, S2
									Pulmonic	-	trace	
									Tricuspid	-	trivial	
MI	19	Arabian	24	mc	440	Mitral	3/6	mild	Aortic	-	trivial	S1, S2
									Pulmonic	-	trivial	
									Tricuspid	-	trivial	
MI	20	Warmblood	16	mc	580	Mitral	4/6	moderate	Pulmonic	-	trivial	S1, S2

MI	21	Warmblood	5	f	500	Mitral	6/6	moderate	Aortic	2/6	mild	S1, S2
MI	22	Warmblood	7	mc	560	Mitral	4/6	moderate	Aortic	-	trivial	S1, S2
									Pulmonic	-	trivial	
MI	23	Warmblood	7	mc	580	Mitral	4/6	moderate	Aortic	-	mild	S1, S2
									Tricuspid	-	trivial	
MI	24	Warmblood	18	mc	630	Mitral	6/6	moderate	Aortic	2/6	trace	S1, S2
									Pulmonic		trivial	
									Tricuspid		trivial	
MI	25	Warmblood	14	mc	565	Mitral	3/6	moderate	Aortic	-	trivial	S1, S2
									Pulmonic	-	trivial	
									Tricuspid	-	trivial	
MI	26	Warmblood	8	f	500	Mitral	4/6	moderate	Aortic	-	mild	S1, S2
									Pulmonic	-	trivial	
									Tricuspid	-	mild	
MI	27	Warmblood	4	m	600	Mitral	4/6	moderate	Aortic	-	trivial	S1, S2
									Pulmonic	-	mild	
									Tricuspid	2/6	trivial	
MI	28	Warmblood	20	f	540	Mitral	4/6	moderate	Aortic		mild	S1, S2, S4
									Pulmonic		trivial	
									Tricuspid		trivial	
AI	1	Freiberger	16	mc	580	Aorta	3/6	mild	-		-	S1, S2
AI	2	Warmblood	10	f	520	Aorta	3/6	mild	Pulmonic	-	mild	S1, S2
AI	3	Warmblood	20	f	590	Aorta	4/6	mild	Mitral	-	trivial	S1, S2
AI	4	Warmblood	11	mc	640	Aorta	4/6	moderate	-		-	S1, S2
AI	5	Friesian	15	mc	540	Aorta	3/6	moderate	-		-	S1, S2
AI	6	Warmblood	19	f	585	Aorta	4/6	moderate	-		-	S1, S2
AI	7	Warmblood	16	f	640	Aorta	5/6	moderate	Mitral	-	trivial	S1, S2, S4
AI	8	Warmblood	19	mc	540	Aorta	4/6	moderate	Mitral	-	trace	S1, S2
AI	9	Warmblood	22	mc	605	Aorta	4/6	moderate	Pulmonic	-	trivial	S1, S2
AI	10	Warmblood	21	mc	705	Aorta	4/6	moderate	Mitral	3/6	mild	S1, S2
AI	11	Warmblood	15	mc	510	Aorta	2/6	moderate	Mitral		trivial	S1, S2
									Tricuspid		trivial	
AI	12	Arabian	25	f	520	Aorta	4/6	moderate	Mitral	2/6	mild	S1, S2
									Pulmonic		trivial	

									Tricuspid		mild	
AI	13	Warmblood	27	f	530	Aorta	6/6	severe	-	-	-	S1, S2
AI	14	Warmblood	18	mc	575	Aorta	4/6	severe	-	-	-	S1, S2, S4
AI	15	Arabian	22	mc	400	Aorta	3/6	severe	-	-	-	S1, S2
AI	16	Warmblood	22	mc	590	Aorta	4/6	severe	Mitral	-	mild	S1, S2
AI	17	Friesian	27	mc	520	Aorta	6/6	severe	Mitral	-	trace	S1, S2
									Pulmonic	-	trivial	
AI	18	Arabian	21	m	390	Aorta	4/6	severe	Mitral	2/6	moderate	S1, S2, S4
									Pulmonic	-	mild	
									Tricuspid	-	trivial	

f=female; m=male; mc=male castrated

*Murmur grade = -, no murmur audible on auscultation and reported findings are based on color flow Doppler