

Table 3a. Crude preliminary logistic regression analyses where only one independent variable in the model at a time with the response variable EGGD present vs healthy horses and horses with ESGD (full data).

Variable no	Variable	Subclasses	Standard error	Wald p-value	Odds ratio (95% CI)
1	Breed			0.003	
		Other breed vs Warmblood	0.475	0.002	0.234 (0.092-0.594)
		Other breed vs Finnhorse	0.729	0.008	0.143 (0.034-0.599)
		Warmblood vs Finnhorse	0.691	0.48	0.612 (0.158-2.372)
2	Sex (male vs female)		0.417	0.61	0.808 (0.357-1.829)
3	Forage location			0.78	
		Bucket vs ground	0.697	0.66	1.363 (0.348-5.342)
		Bucket vs hay from a net	0.909	0.48	1.905 (0.321-11.311)
		Ground vs hay from a net	0.667	0.62	1.397 (0.378-5.164)
4	Eating habits			0.79	
		With other horses vs other variables	0.830	0.59	1.571 (0.309-7.989)
		With other horses vs alone	0.498	0.53	1.371 (0.517-3.641)
		Other variables vs alone	0.748	0.86	0.873 (0.201-3.782)
5	Stable water communal vs ground well		0.409	0.85	1.081 (0.485-2.410)
6	Paddock water			0.78	
		Other vs ground well	0.910	0.96	0.950 (0.160-5.651)
		Other vs communal	0.929	0.71	0.706 (0.114-4.359)
		Communal vs ground well	0.436	0.50	0.743 (0.316-1.747)
7	Automatic water supply vs bucket		0.456	0.55	1.313 (0.537-3.205)
8	Living in loose housing system vs stable		0.863	0.97	1.039 (0.192-5.633)
9	Stable cleaning frequency 1/d vs 2/d		0.586	0.040	0.300 (0.095-0.946)
10	Bedding material			0.78	
		Other vs peat	0.869	0.81	1.231 (0.224-6.756)
		Other vs shavings	0.940	0.91	0.900 (0.143-5.679)
		Other vs straw/straw pellets	0.907	0.57	1.667 (0.282-9.856)
		Peat vs shavings	0.552	0.57	0.731 (0.248-2.158)
		Peat vs straw/straw pellets	0.494	0.54	1.354 (0.515-3.564)
		Shavings vs straw/straw pellets	0.610	0.31	1.852 (0.560-6.122)
11	Horse No. in the stable			0.24	
		15 vs 21	0.600	0.16	0.43 (0.133-1.394)
		15 vs 3	0.622	0.68	1.296 (0.383-4.390)
		15 vs 7	0.552	0.65	1.287 (0.436-3.795)
		21 vs 3	0.652	0.091	3.014 (0.840-10.817)

	21 vs 7	0.585	0.061	2.991 (0.950-9.418)
	3 vs 7	0.608	0.99	0.992 (0.301-3.268)
12	No. of caretakers		0.036	
	1-2 vs 3	0.449	0.82	0.904 (0.375-2.181)
	1-2 vs 4	0.685	0.012	0.181 (0.047-0.692)
	3 vs 4	0.687	0.019	0.200 (0.052-0.768)
	1-2 vs 4	0.648	0.010	0.190 (0.053-0.677)
13	No. of owners (horse's history)		0.74	
	1 vs 2	0.619	0.71	1.255 (0.373-4.221)
	1 vs 3	0.644	0.76	1.217 (0.344-4.302)
	1 vs 4	0.929	0.47	0.509 (0.082-3.142)
	2 vs 3	0.505	0.95	0.970 (0.361-2.609)
	2 vs 4	0.838	0.28	0.406 (0.078-2.096)
	3 vs 4	0.857	0.31	0.418 (0.078-2.243)
	Contact to horses from other stables yes vs no	0.605	0.42	1.622 (0.496-5.311)
14	Changing stable yes vs no	0.414	0.75	1.143 (0.508-2.570)
15	Traveling abroad yes vs no	0.711	0.93	0.938 (0.233-3.775)
16	Transporting frequency		0.66	
	Less than once/month vs very seldom	0.533	0.86	1.100 (0.387-3.124)
	Less than once/month vs once/month	0.506	0.29	0.584 (0.217-1.576)
	Less than once/month vs once/week	0.768	0.88	0.890 (0.197-4.012)
	Very seldom vs once/month	0.559	0.26	0.531 (0.178-1.589)
	Very seldom vs once/week	0.804	0.79	0.810 (0.167-3.912)
	Once/month vs once/week	0.786	0.59	1.523 (0.326-7.116)
17	Time outdoors 4h vs 6h	0.463	0.49	1.375 (0.555-3.408)
18	Sand paddock yes vs no	0.464	0.30	0.618 (0.249-1.536)
19	Grass paddock yes vs no	0.474	0.48	1.398 (0.552-3.542)
20	Pasture turnout yes vs no	0.666	0.18	0.405 (0.110-1.494)
21	Other type of paddock yes vs no	0.722	0.95	1.051 (0.255-4.329)
22	Paddock company		0.57	
	Many other horses vs one other horse	0.582	0.72	1.232 (0.393-3.857)
	Many other horses vs alone	0.520	0.31	1.690 (0.610-4.682)
	One other horse vs alone	0.487	0.52	1.371 (0.528-3.560)
23	Summer pasture yes vs no	0.529	0.82	1.131 (0.401-3.192)
24	Time spent at pasture (months)		0.83	
	2 vs 3	0.634	0.74	1.232 (0.355-4.271)
	2 vs <= 3	0.699	0.80	0.840 (0.214-3.304)
	2 vs >= 4	0.727	0.56	1.527 (0.367-6.354)
	3 vs <= 1	0.590	0.52	0.682 (0.215-2.165)
	3 vs >= 4	0.623	0.73	1.240 (0.365-4.206)
	<= 1 vs >= 4	0.689	0.39	1.818 (0.471-7.011)

26	Training while on pasture yes vs no	0.536	0.44	0.663 (0.232-1.897)
27	Horse actively competing yes vs no	0.421	0.21	0.586 (0.257-1.338)
28	Showjumping vs dressage	0.658	1.00	1.000 (0.275-3.634)
29	Use at riding school yes vs no	1.089	0.30	0.325 (0.038-2.746)
30	No. Of riders			
31	1 vs 2	0.472	0.39	0.667 (0.264-1.684)
	1 vs >= 3	0.703	0.033	0.224 (0.057-0.888)
	2 vs >= 3	0.698	0.12	0.336 (0.086-1.318)
32	1-2 vs >=3	0.659	0.052	0.278 (0.076-1.010)
33	Previous gastric ulcers yes vs no	0.435	0.58	0.786 (0.335-1.842)
34	Recurrent gastric ulcers yes vs no	1.067	0.10	0.173 (0.021-1.399)
35	Sand enteropathy yes vs no	0.461	0.38	1.505 (0.610-3.718)
36	Weight loss yes vs no	0.430	0.81	1.108 (0.477-2.575)
37	Colic yes vs no	0.427	0.086	2.084 (0.901-4.816)
38	Diarrhoea yes vs no	0.429	0.95	1.029 (0.444-2.383)
39	Positive FEC yes vs no	0.605	0.64	1.325 (0.405-4.334)
40	Deworming			
	Twice/year vs less often than twice/year	0.778	0.51	1.674 (0.365-0.508)
	Twice/year vs min. 4 times/year	0.456	0.47	1.395 (0.571-0.466)
	Less often than twice/year vs min. 4 times/year	0.818	0.82	0.833 (0.168-0.824)
41	Use of anthelmintics yes vs no	0.481	0.94	0.965 (0.376-2.478)
42	Vaccination against EHV yes vs no	0.531	0.63	1.292 (0.456-3.659)
43	Vaccination against rabies yes vs no	0.597	0.65	1.308 (0.406-4.213)
44	Vaccination against botulism yes vs no	0.875	0.27	2.642 (0.476-14.674)
45	Use of NSAIDs yes vs no	0.425	0.83	1.093 (0.476-2.512)
46	Use of nutraceuticals for prevention of EGUS yes vs no	0.508	0.95	1.032 (0.381-2.793)
47	Dry hay vs haylage	0.516	0.14	2.145 (0.780-5.901)
48	Amount of hay/haylage kg/d			
	10-12 vs 5-7	0.720	0.013	6.000 (1.462-24.626)
	10-12 vs 8-9	0.714	0.62	1.429 (0.353-5.788)
	10-12 vs > 12	0.588	0.16	2.269 (0.716-7.188)
	5-7 vs 8-9	0.822	0.081	0.283 (0.048-1.193)
	5-7 vs > 12	0.716	0.17	0.378 (0.093-1.593)
	8-9 vs > 12	0.709	0.51	1.588 (0.395-6.397)
49	Amount of concentrate l/d			
	0.2-0.9 vs 1.0-1.5	0.868	0.77	0.778 (0.142-4.265)
	0.2-0.9 vs 1.6-2.0	0.812	0.95	1.050 (0.214-5.158)
	0.2-0.9 vs 2.1-3.5	0.996	0.29	0.350 (0.050-2.467)

	0.2-0.9 vs >3.6	0.832	0.21	0.350 (0.068-1.789)
	1.0-1.5 vs 1.6-2.0	0.792	0.71	1.350 (0.286-6.379)
	1.0-1.5 vs 2.1-3.5	0.980	0.42	0.450 (0.066-3.074)
	1.0-1.5 vs > 3.6	0.813	0.33	0.450 (0.091-2.215)
	1.6-2.0 vs 2.1-3.5	0.931	0.24	0.333 (0.054-2.067)
	1.6-2.0 vs > 3.6	0.753	0.14	0.333 (0.076-1.458)
	2.1-3.5 vs > 3.6	0.949	1.00	1.000 (0.156-6.420)
50	Hospitalized vs outpatient	0.424	0.20	0.581 (0.253-1.335)