

Supplementary Table 1. Results of the respiratory assessment during the course of experimental *Aelurostrongylus abstrusus* infection and after anthelmintic treatment with emodepside/praziquantel at days 171/173 (first treatment) and 185/187 pi (second treatment). The intensity of respiratory sounds during auscultation was scored between 0 (no sound) and 3 (severe sound). Abnormal quality of respiratory sounds as well as coughing or retching were noted if observed. The days after all cats received the first treatment are marked in grey. Note that cat A3 deceased on day 168 pi. Abbreviations: dpi = days post infection; - = omitted; IRD = increased respiratory depth; CR = crackle; W = wheeze.

dpi / Cat	Respiratory rate/min						Intensity						Quality						Coughing/retching					
	A1	A2	A3	B1	B2	B3	A1	A2	A3	B1	B2	B3	A1	A2	A3	B1	B2	B3	A1	A2	A3	B1	B2	B3
18	-	40	52	-	28	32	-	0	1	-	0	-	-			-			-			-		
21	-	28	30	-	36	36	-	0	1	-	1	-	-	CR		-		IRD	-			-	Yes	
25	48	36	28	48	52	64	1-2	1-2	1	1	1	1		IRD			IRD	IRD						
28	32	28	32	40	66	54	1-2	1	1	1	1	1	IRD			IRD	IRD	IRD						
32	40	40	48	28	66	54	1	1	1	1	1	1	IRD				IRD	IRD						
35	30	54	84	28	42	60	1	0	1	1	1	1			IRD		IRD	W						
39	44	54	48	40	54	48	1	1	1	2	1	1	IRD		IRD	IRD	IRD	IRD						
42	54	44	60	42	54	52	1	0	1	1	1	2				IRD	IRD	IRD						
46	54	54	48	48	48	48	1	0	1	1	2	1	IRD		IRD	IRD	IRD	IRD						
49	42	44	66	36	52	56	1	0	0	1	1	1	IRD			IRD	IRD	IRD						
53	44	56	54	52	52	42	1	0	1	1	1	2	IRD		IRD	IRD	IRD	IRD						
56	52	66	54	48	60	42	1	1	1	1	1	1		IRD	IRD	IRD	IRD	IRD						
60	44	48	44	36	48	52	1	0	1	1	1	1	IRD		IRD	IRD	IRD							
63	48	36	48	52	40	48	1	0	1	1	1	1	IRD		IRD	IRD	IRD	IRD						
67	44	32	44	48	52	44	1	0	1	1	1	1			IRD		IRD	IRD						
70	54	36	64	36	48	48	1	0	1	1	2	2	IRD		IRD	IRD	IRD	IRD						
74	40	36	48	60	72	66	1	0	1	1	2	2			IRD		IRD	IRD						
77	44	52	60	52	44	52	1-2	0	1	1	1	2	CR			IRD		IRD	Yes					
81	40	60	54	44	48	48	1	0	2	1	1	1			IRD	IRD		IRD						
84	48	52	56	44	32	40	1	0	2	1	1	1	IRD		IRD			IRD						
88	66	32	44	84	48	40	2	0	1	2	1	1	IRD		IRD	IRD		IRD						
91	44	36	54	52	60	52	1	0	1	2	1	1	IRD					IRD	Yes					
95	44	44	52	32	52	32	1	1	1	1	1	1			IRD	IRD		IRD						

98	56	54	48	48	48	44	1	0	1	1	1	1	IRD		IRD	IRD	IRD						
102	36	44	48	52	40	44	1	1	1	1	1	1			IRD	IRD		IRD					
104	-	-	-	-	60	60	-	-	-	-	1	1	-	-	-	-	IRD	IRD	-	-	-	-	-
105	54	54	54	60	-	-	0	1	1	1	-	-			IRD	IRD	-	-			-	-	
109	48	36	52	52	45	44	1	0	1	1	1	1	IRD		IRD	IRD		IRD					
111	-	60	72	-	60	68	-	0	1	-	1	2	-		IRD	-		IRD			-		
112	64	-	-	40	-	-	1	-	-	1	-	-	IRD	-	-	IRD		-		-	-	-	-
116	48	40	32	40	40	44	1	0	1	1	1	2	IRD		IRD	IRD		IRD		Yes			
118	52	72	66	60	54	54	2	1	1	2	2	2		IRD	IRD			IRD					
123	44	36	48	52	48	48	1	1	1	1	1	1-2			IRD	IRD		IRD					
125	54	48	54	66	54	44	1	0	2	1	1	1											
130	32	32	44	64	52	48	1	0	1	1	1	1	IRD		IRD		IRD	IRD					
132	60	46	54	60	40	48	1	1	1	1	1	1					IRD	IRD					
137	40	52	48	60	48	52	1	1	1	1	1	1			IRD	IRD	IRD	IRD					
139	46	44	48	44	-	-	1	0	1	1	-	-					-	-			-	-	
140	-	-	-	-	58	48	-	-	-	-	1	0	-	-	-	-	IRD			-	-	-	-
144	32	44	44	44	48	56	0	1	1	1	1	1-2			IRD	IRD		IRD					
146	48	-	-	44	-	-	1	-	-	1	-	-	IRD	-	-	IRD	-	-		-	-	-	-
147	-	52	48	-	48	44	-	1	0	-	1	1	-	IRD		-	IRD	IRD		-			
151	48	40	48	52	28	48	1	0	1	1	1	1			IRD	IRD		IRD					
154	44	44	52	40	48	52	1	1	1	1	1	1	IRD			IRD							
158	44	32	56	32	40	60	1	1	1	1	1	1	IRD	IRD					IRD				
160	-	-	-	-	40	60	-	-	-	-	1	0	-	-	-	-	IRD			-	-	-	-
161	56	48	60	48	-	-	1	1	1	1-2	-	-	IRD	IRD		IRD	-	-			-	-	
165	42	36	48	48	54	66	1	1	1	1	0	0			IRD								
167	-	44	48	-	-	-	-	1	0	-	-	-	-	IRD		-	-	-		-		-	-
168	52	-		48	56	48	1	-		1	0	0		-						-			
172	44	42		56	48	42	1	1		1	1	1-2						IRD					
174	40	-		64	-	-	1	-		1	-	-	IRD	-		IRD	-	-		-		-	-
175	-	40		-	42	32	-	1		-	0	1	-	IRD		-		IRD		-			

179	66	48	54	66	62	1	1	1	1	1	IRD					
182	44	48	40	46	55	1	0	1	0	1	IRD		IRD			
186	42	42	60	54	60	0	0	1	1	2			IRD	IRD		
189	42	52	32	60	54	0	1	0	1	1						
193	46	42	54	66	42	1	1	1	0	0						
196	62	48	42	52	48	0	1	0	1	1						
200	54	42	60	52	48	1	0	1	1	1						
202	-	-	-	62	40	-	-	-	0	0	-	-	-	-	-	-
203	54	44	54	-	-	1	0	1	-	-	IRD		-	-	-	-
207	48	40	48	52	44	1	0	1	0	0						
209	-	48	-	-	-	-	0	-	-	-	-		-	-	-	-
210	44	-	48	40	48	0	-	1	1	1		-			-	
214	40	40	36	48	44	0	0	1	1	1						
216	44	-	36	-	-	0	-	0	-	-		-		-	-	-
217	-	32	-	54	54	-	0	-	0	0	-		-		-	-
220	-	-	-	44	40	-	-	-	1	1	-	-	-		-	-
221	48	44	56	-	-	0	0	1	-	-			-	-	-	-
224	32	36	56	62	55	0	0	0	0	0						
227	-	36	-	66	60	-	0	-	0	0	-		-		-	-
228	44	-	56	-	-	0	-	1	-	-		-		-	-	-
231	66	54	54	42	48	0	0	0	0	0						
234	40	46	56	-	-	0	0	1	-	-			-	-	-	-
235	-	-	-	48	44	-	-	-	0	0	-	-	-		-	-
237	-	42	-	-	-	-	0	-	-	-	-		-	-	-	-
238	46	-	42	54	42	0	-	0	1	1		-			-	
241	48	-	50	-	-	0	-	0	-	-		-		-	-	-
242	-	32	-	48	40	-	0	-	1	1	-		-	IRD	IRD	-
245	60	42	48	48	56	0	1	0	0	0						
249	36	32	40	56	44	0	0	1	1	1				-		
252	60	36	48	48	40	1	0	1	1	1				-		