

1 Appendix 1

Models	AIC	ΔAIC	AICweight
<i>Behavioural unease responses/minute ratio</i>			
Behavioural unease responses ~ age + year + enclosed time + body condition score + age*enclosed time, family=Poisson	78.3	0.0	0.495
Behavioural unease responses ~ sex + age + year + enclosed time + body condition score + sex*age + age*enclosed time, family=Poisson	80.7	2.4	0.148
Behavioural unease responses ~ sex + age + year + enclosed time + handling time + body condition score + sex*age + age*enclosed time + age*handling time + sex*body condition score, family=Poisson	84.5	6.2	0.023
<i>Serum cortisol level</i>			
Serum cortisol level ~ sex + age + recapture + year + enclosed time + handling time + respiratory rate + heart beat frequency + body condition score + sex*age + age*handling time + age*respiratory rate + age*body condition score + sex*heart beat frequency + sex*body condition score, family=Gaussian	-74.6	0.0	0.952
Serum cortisol level ~ sex + age + recapture + year + enclosed time + body temperature + handling time + respiratory rate + heart beat frequency + body condition score + sex*age + age*enclosed time + age*handling time + age*respiratory rate + age*heart beat frequency + age*body condition score + sex*enclosed time + sex*heart beat frequency + sex*body condition score, family=Gaussian	-68.9	6.8	0.032
Serum cortisol level ~ sex + age + recapture + year + enclosed time + body temperature + handling time + respiratory rate + heart beat frequency + body condition score + sex*age + age*enclosed time + age*handling time + age*respiratory rate + age*heart beat frequency + age*body condition score + sex*handling time + sex*enclosed time + sex*heart beat frequency + sex*body condition score, family=Gaussian	-66.9	8.8	0.012
<i>Neutrophil/lymphocyte ratio</i>			
N:L ~ sex + age + enclosed time + handling time + body condition score + respiratory rate + heart beat frequency + body temperature + sex*enclosed time + sex*handling time + sex*heart beat frequency + sex*body condition score, family=Gaussian	-17.6	0.0	1
N:L ~ sex + age + enclosed time + handling time + body condition score + respiratory rate + heart beat frequency + sex*handling time, family=Gaussian	12.7	30.3	<0.001

N:L ~ sex + age + enclosed time + handling time + body condition score + heart beat
frequency + respiratory rate, family=Gaussian

13.5

31.1

<0.001