

Table 4. Overview of IRT methodology and results within existing literature

Trigger	Species	IRT Change	Measurement			Paper
			Time	90° to:	Standardised	
Exertion/Competition stress	Horses	Increase	<5mins + 180mins	No reference point	No	Valera et al (2012)
Exertion/Competition stress		Increase	5mins & 180mins	No reference point	No	Sanchez et al (2016)
Exertion/Competition stress		Increase	<5mins * 180mins	No reference point	No	Bartolome et al (2013)
Exertion		Increase	5mins & 120 mins	Sagittal plane	No	Soroko et al (2016)
Ridden Stressor		Increase	During + <5mins	No reference point	No	Hall et al (2014)
Exertion		Decrease	<5mins			
Exertion		Increase	<12mins	Sagittal plane	No	Trindade et al (2019)
Clipping Stress		Increase	0mins - 30mins	No reference point	No	Yarnell et al (2013)
Novel Object		Increase	5mins	images indicate eye but no reference point	No	Dai et al (2015)
Novel Object/ Handling		Decrease	<5 mins	Sagittal plane	Yes	Squibb et al (2018)
Novel Object/ Handling		Decrease	<5 mins	Sagittal plane	Yes	Ijichi et al (2018)
Loading/Isolation Stress		Increase	<5mins + 10mins	No reference point	No	Ijichi et al (2019)
Pain		Cattle	Increase	120mins - 4320mins	Images indicate eye but no reference point	No
Pain	Reduce then increase		<5mins - 40mins	No reference point	No	Stewart et al (2008)
ACTH challenge	No change		<5 mins - 20 mins	No reference point	No	
Social Isolation Stress	Decrease		30mins + 60mins	No reference point	No	Stewart et al (2007)
ACTH challenge	Increase					
Adrenaline	Decrease					
Adrenaline	Decrease		0mins - 10mins	No reference point	No	Stewart et al (2010)
Transport and Fasting	Increase		Not specified	Images indicate eye but no reference point	No	Bravo et al (2018)
Pain	Sheep	Decrease	During + 15mins	No reference point	No	Stubsjoen et al (2009)
Isoflurane stress	Mice	Decrease	0 - 40mins	Above cage	Yes	Gjendal et al (2018)
Pain	Dogs	Decrease	15 - 195mins	Nasal plane	No	Lush & Ijichi (2018)
Sham behaviour consultation		Increase	<45mins	Nasal plane	No	Rigterink et al (2018)
Veterinary exam Stress		Increase	During + <5mins	No reference point	No	Csoltova et al (2017)
Veterinary exam Stress		Increase then Decrease	During + <5mins	Images indicate eye but no reference point	No	Travain et al (2015)
Stress Sensitivity test	Cats	Increase	<5mins	Nasal plane	No	Foster & Ijichi (2017)