

Table S1. Interobserver reliability of four evaluators for indication of RA, unidimensional scales (VAS, NRS, and SDS), and composite pain scales in dogs (CMPS-SF), obtained by analyzing 208 videos from four perioperative moments (M1, M2, M3, and M4) of dogs undergoing orthopedic (n = 20) or soft tissue surgeries (n = 22) and negative control group (n = 10), between two phases, 21 days apart.

Statistical test	Variables	PhD student x Ethologist	PhD student x MSc student	PhD student x Student	Ethologist x MSc student	Ethologist x Student	MSc student x Student
Kw (CI95%)	Analgesic rescue	0.6 (0.52-0.68)	0.53 (0.45-0.61)	0.51 (0.42-0.6)	0.42 (0.34-0.51)	0.54 (0.46-0.62)	0.4 (0.31-0.5)
	Numerical rating scale	0.45 (0.38-0.52)	0.6 (0.54-0.66)	0.41 (0.34-0.49)	0.29 (0.22-0.36)	0.68 (0.52-0.67)	0.29 (0.22-0.36)
	Simples descriptive scale	0.52 (0.43-0.6)	0.54 (0.47-0.61)	0.53 (0.45-0.61)	0.33 (0.24-0.41)	0.6 (0.52-0.67)	0.39 (0.31-0.46)
ICC (CI95%)	Visual analogue scale	0.71 (0.65-0.76)	0.77 (0.72-0.81)	0.7 (0.58-0.72)	0.36 (0.3-0.45)	0.75 (0.69-0.79)	0.64 (0.56-0.7)
Kw (CI95%)	A(i) – Spontaneous behavior	0.58 (0.46-0.69)	0.53 (0.41-0.63)	0.52 (0.4-0.63)	0.52 (0.43-0.59)	0.56 (0.43-0.68)	0.56 (0.47-0.64)
	A(ii) – Attention to wound	0.59 (0.4-0.74)	0.37 (0.21-0.55)	0.32 (0.11-0.53)	0.46 (0.28-0.6)	0.56 (0.27-0.77)	0.3 (0.13-0.47)
	B (iii) – Mobility	0.6 (0.5-0.68)	0.62 (0.51-0.71)	0.46 (0.34-0.57)	0.52 (0.4-0.63)	0.71 (0.58-0.81)	0.46 (0.33-0.59)
	C (iv) – Response to touch	0.65 (0.55-0.73)	0.77 (0.69-0.83)	0.76 (0.69-0.84)	0.72 (0.63-0.79)	0.74 (0.66-0.82)	0.83 (0.76-0.88)
	D (v) – Demeanor	0.28 (0.2-0.36)	0.48 (0.39-0.56)	0.54 (0.47-0.6)	0.34 (0.26-0.43)	0.27 (0.19-0.35)	0.52 (0.43-0.6)
	D (vi) – Posture	0.41 (0.32-0.49)	0.37 (0.29-0.46)	0.29 (0.19-0.4)	0.31 (0.21-0.4)	0.39 (0.28-0.49)	0.33 (0.22-0.43)
ICC (CI95%)	Total CMPS-SF	0.8 (0.76-0.83)	0.83 (0.8-0.86)	0.8 (0.77-0.85)	0.78 (0.73-0.81)	0.82 (0.78-0.85)	0.83 (0.79-0.86)

Interpretation: 0.81-1.0 very good; 0.61-0.80 good; 0.41-0.60 moderate; 0.21-0.40 reasonable; <0.20 poor [35]. CMPS-SF is Short-Form Composite Pain Score [10], Kw is Weighted Kappa Coefficient, ICC is Intraclass Correlation Coefficient, [CI95% (Min-Max): 95% confidence interval (minimum-maximum values)]. In bold are the values considered acceptable by the adapted GRADE criteria [14,15].