

**Table S1.** Results of semen analysis of TG (n=5) during restart of spermatogenesis following implant removal; results are given as median (Q1, Q3).

Time (days)	VOL (mL)	% PM	% VS	% MAS	TSC (x10 <sup>6</sup> )
49	0.2 (0.1, 2.4)	*	*	*	*
56	5.4 (0.3, 6.0)	*	*	*	*
63	2.0 (1.3, 4.9)	*	*	*	*
70	9.0 (3.9, 10.7)	*	*	*	*
77	6.6 (5.8, 10.3)	*	*	*	*
84	6.0 (5.5, 6.6)	80 (75, 80)	92.0 (88.5, 94.0)	*	409.7 (36.3, 515.6)
91	6.7 (5.4, 7.3)	85 (80, 85)	91.5 (90.5, 92.5)	22.0 (18.0, 52.0)	350.0 (68.9, 360.0)
98	4.9 (3.1, 9.6)	80 (75, 80)	90.5 (89.5, 91.0)	25.0 (18.0, 39.5)	265.7 (240.7, 330.0)
105	6.4 (3.5, 7.0)	75 (75, 80)	89.5 (89.0, 92.5)	22.0 (21.5, 32.5)	190.5 (160.0, 370.3)
112	8.4 (8.2, 10.0)	80 (75, 85)	89.5 (88.5, 92.0)	24.0 (13.5, 26.5)	567.2 (484.0, 910.0)
119	6.6 (5.6, 9.1)	80 (75, 85)	96.0 (95.0, 96.0)	15.0 (10.5, 17.0)	525.0 (342.7, 532.8)
126	8.8 (7.8, 10.1)	85 (80, 85)	94.0 (92.0, 95.5)	12.5 (8.0, 14.0)	465.3 (307.0, 590.6)
133	7.8 (7.0, 10.4)	85 (80, 85)	93.0 (91.5, 96.0)	15.5 (10.5, 17.0)	654.6 (526.6, 684.1)
140	9.7 (7.5, 11.3)	85 (80, 85)	94.5 (93.0, 95.5)	14.5 (14.0, 17.0)	412.5 (411.7, 819.5)
147	8.7 (7.0, 10.3)	80 (75, 85)	93.5 (91.0, 95.0)	9.5 (8.5, 17.5)	365.2 (344.5, 502.0)

\* analysis not possible in all dogs due to low ejaculate volume (sperm rich fraction).