

Supplementary Material for:

Canine hip dysplasia treated by juvenile pubic symphysiodesis

Part 2: Two year clinical results

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Vet Comp Orthop Traumatol 2010; 23: XXX

doi:10.3415/VCOT-09-04-0040

Appendix 1B: Osteoarthritis (OA) summary scores relative to distraction index (DI) grades of laxity and age at surgery

TIMES	Juvenile pubic symphysiodesis (JPS) group JPS OA-scores (0-4)					Control group OA-scores (0-4)					JPS OA vs. Control OA	JPS OA Scores Mod + Mi Lax vs. Severe Lax		JPS OA scores Early vs. Late		
	All	Sevr Lax	Mod Lax	Mi Lax	Early vs. Late Lax	All	Sevr Lax	Mod Lax	Mi Lax	Early vs. Late Lax		M+M	Severe	Sevr Lax	Mod Lax	Mi Lax
Preop. Hips	1.20 ± 0.77 11%↑ versus control n = 66	1.50 ± 0.95 n = 20	1.16 ± 0.72 n = 30	0.86 ± 0.36 n = 16	E 1.32 L 1.10 E 28 L 38	1.08 ± 0.67 n = 12	1.5 ± 0.55 n = 6	.67 ± 0.52 n = 6	na	E1.13 ± 0.83 L1.0 ± 0 E8/L4	C 1.0 n = 12 JPS 1.20 >11% n = 66	1.07 ± 0.6 n = 46	1.50 ± 0.95 Sevr* >40% n = 20	E 1.8 n = 4 E<29% L1.4 n = 16	E 1.44* n = 18 E>82% L 0.79 n = 14	E 0.67 n = 6 L 1.0 L >49% n = 8

Preop to 1 yr hips	1.23 ± 1.22 ↑3%	2.35 ± 1.53 ↑57% **	0.75 ± 0.67 ↓35% * ^	0.71 ± 0.47 ↓17%	E 1.07 L 1.34 E 28 L 38	1.33 ± 0.49 ↑23%	1.17 ± 0.41 ↓22%	1.50 ± 0.55 ↑124% **	na	E1.25 ± 0.46 L1.50 ± 0.58 E8/L4	C 1.33 ↑23% JPS 1.23 ↑3%	0.74 ± 0.6 ↓31% *♣ ^a	2.35 ± 1.53 ↑57%	E 3.0 67% L 2.2 57%	E 0.78* 46% L 0.71 10%	E 0.67 0% L 0.75 ↓25%
Preop to 2 yr hips	1.33 ± 1.29 ↑11%	2.75 ± 1.66 ↑83% *	1.0 ± 0.86 ↓14% ^	0.67 ± 0.49 ↓22%	E 1.41 L 1.27 E 20 L 22	1.67 ± 0.65 ↑55% *	1.83 ± 0.75 ↑23% **	1.50 ± 0.55 ↑124% **	na	E1.63 ± 0.74 L1.75 ±.50 E8/L4	C 1.67 ↑55% JPS 1.33 ↑11%	0.90 ± 0.77 ↓16% *♣ ^a	2.75 ± 1.54 ↑83% **	E 4.0 ↑122% L 2.5 ↑79%	E 1.36 ↓6% L 0.64 ↓19%	E 0.67 0% L 0.67 ↓33%
2 yrs vs. 1 yr	↑8%*	↑17%	↑33%	↓6%	Δ E↑32% L↓5%	↑25%	↑56% **	nc	na	E↑30% L↑17%	C ↑ 25% JPS↑4%	↑22%	↑17%	E↑33% L↑14%	E↑74% L↓10%	E nc L ↓11%

Legend:

- Preop = Preoperative
- n = number dogs
- Sevr = severe laxity
- Mod = moderate laxity
- Mi = mild laxity
- E = early (12-16 weeks)
- L = late (17-24 weeks)
- C = control
- M+M = moderate OA + mild OA
- * ≤ 0.01 vs. preop ; ** ≤ 0.05 vs. preop
- ↑ = increase; ↓ = decrease
- ♣ = moderate and mild statistically greater decrease in OA than severe JPS dogs
- ^ = moderate JPS had significant OA improvement vs. moderate controls in rate of change;
- ^a = M+M significant vs. mean control
- Δ = Early JPS greater than Late JPS from 1 to 2 years,
- OA score: 0 = no OA; 1.0-2.9 = mild OA, 3.0-3.9 = moderate OA.
- ≥ 4.0 severe OA
- na = none applicable; nc = no change.