

VCOT 04/2009

Haaland et al.: Appendicular fracture repair in dogs using the locking compression plate system: 47 cases

Supplementary Table 1: Overview of cases, treatment and outcome

Fracture classification ^a	Fracture length ^b (mm)	Patient (age (years); weight (kg))	Type of construct (plate, screw type / positioning ^c)	Complications (weeks post-op.)	Revision surgery *	Healing time ^d (weeks)
Humerus 2 A	1	Mixed breed (1.3; 27.0)	Bridging (3.5; 111000111)			6
Humerus 2 B	18	Mixed breed (6.6; 4.2)	Bridging (2.4; 111011)			13
Humerus 2 C	23	Leonberger (1.0; 34.5)	Bridging + rod (3.5; 111000011; IM pin)			7
Humerus 3 C	1	German Shepherd (2.3; 33.0)	Neutralisation (2 x 3.5; 111011 x 111011; Intercondylar lag screw)			7
	1	Mixed breed (0.8; 27.0)	Neutralisation (3.5; 111111111; Intercondylar lag screw; K.wire)			4
Radius / ulna 2 A	1	Chihuahua (0.5; 2.4)	Bridging (2.0; 110011)			3
	1	Mixed breed (1.0; 26.0)	Bridging (3.5; 1010101011)	Plate breakage (4)	Bridging + rod (3.5; 101100111; IM pin) **	(9)
	1	Saluki (1.3; 18.0)	Bridging (3.5; 1010011)			9
	1	Border Collie (0.8; 20.0)	Bridging (3.5; 100100101)			10
	1	Poodle (1.9; 25.5)	Bridging (3.5; 1010011)			10
	1	Saluki (0.9; 19.6)	Bridging + rod (3.5; 1100101; IM pin ulna)			7
	1	Papillon (1.0; 2.1)	Bridging (2.0; 1110111)			4
	1	Miniature Poodle (0.6; 1.6)	Bridging (2.0; 11011)			6
Radius / ulna 2 C	50	Irish Setter (0.8; 19.0)	Bridging (3.5; 11000011)			3
Radius / ulna 2+3 C	103	Greyhound (0.7; 27.9)	Bridging (3.5; 111001001011)			2

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Radius / ulna 3 A	1	Saluki (2.0; 22.0)	Bridging (3.5; 10101011)			8
	1	Yorkshire Terrier (0.9; 2.4)	Bridging (2.0; T-Adaption plate 11011)			5
Radius / ulna 3 C	15	Mixed breed (8.0; 25.0)	Bridging (3.5; 121011)			8
	30	German Shepherd (1.9; 40.0)	Bridging (3.5; 1010100011)			11
Femur 1 A	1	German Shepherd (6.25; 33.6)	Neutralisation (3.5; 110101000111)			14***
Femur 2 A	1	Flat-coated Retriever (0.25; 15.9)	Bridging (3.5; 10011)			4
	1	Finnish Spitz (0.3; 9.2)	Bridging (3.5; 110011)			20***
	1	Airedale Terrier (6.8; 28.0)	Neutralisation (3.5; 111110000111)			5
Femur 2 B	22	Vorster (0.5;25.0)	Bridging (3.5; 111000111)			3
	14	Dogo Brasilliero (0.3; 18.8)	Bridging (3.5; 111011)			4
Femur 2 C	20	Golden Retriever (0.6;29)	Bridging (3.5; 10010100011)			4
	20	Border Collie (3.6; 22.0)	Bridging (3.5; 101101101)	Plate breakage (10)	Bridging (3.5; 11010000111)	(10)
	50	Mixed breed (0.2; 22.0)	Bridging (3.5; 11000011)			4
	55	Am. Staffordshire Terrier (1.0; 28.0)	Bridging (3.5; 1110000111)			2
	70	Gordon Setter (4.8; 14.2)	Bridging (3.5; 1110000111)	Plate breakage (4)	None (due to euthanasia)	

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	10	Finnish Spitz (0.4; 8.4)	Bridging (3.5; 1100011)			16***
	1.1	Mixed breed (8.0; 25.0)	Bridging (3.5; 111000111)			9
	19	Riesenschнауzer (2.6; 38.5)	Bridging + rod (3.5; 101010011; IM pin)			8
	22	Mixed breed (0.6; 28.5)	Bridging + rod (3.5; 10110001101; IM pin)			9
	5.8	Miniature Poodle (0.5; 3.6)	Bridging (2.0; 101011)	Plate breakage (1)	Bridging + rod (2.4; 110011; IM pin)	(4)
Tibia / fibula 2 A	1	Greyhound (1.8; 32)	Bridging (3.5; 1110010101)			8
	1	Poodle (0.3; 7.3)	Bridging (2.4; 10100101)			2
Tibia / fibula 2 C	55	Labrador Retriever (1.6; 33.0)	Bridging (3.5; 10110000111)	Plate bending (1)	Bridging (4.5; 1011000111)	(2)
	75	English Setter (2.0; 18.0)	Bridging (3.5; 11100000111)			9
	90	Mixed breed (2.9; 30.0)	Bridging + rod (3.5; 1100000011; IM pin)			7
	50	Mixed breed (0.7; 9.1)	Bridging (3.5; 1010000101)			4
	115	Newfoundlander (0.8; 52.5)	Neutralisation (3.5; 1101103330111)			3
	35	Am. Staffordshire Terrier (1.3; 23.8)	Bridging (3.5; 111000111)			10
	96	Leonberger (1.5; 49.0)	Bridging (3.5; 10110000000111)			4

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Tibia / fibula 2+3 C	75	Mixed breed (1.8; 29.0)	Bridging + rod (3.5; 110010000011; IM pin)			5
	31	Dachshund (3.8; 9.7)	Bridging (3.5; 110011)			20***
	14.7	German Shepherd (4.2; 30.5)	Bridging + rod (3.5; 110100000113; IM pin)			7

* Three out of four revisions healed without complications.

** Osteomyelitis in ulna 1 week after revision.

***Only one post-operative follow-up.

a - Fracture classification (10).

b - Fracture length was defined as distance (mm) between proximal and distal ends of the two main fracture fragments. No differentiation was made between single transverse and single oblique fractures.

c - Plate length is indicated by the number of digits; 0 = open; 1 = LHS, 2 = cortex screw and 3 = lag screw.

d - Number of weeks until visible callus bridging in at least one cortex on both lateral and A-P radiographic views. Parentheses indicate number of weeks until healed after revision surgery.