



A randomized clinical study to evaluate the plate rod fixation for diaphyseal femoral fracture in dogs

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Supplementary Table 1. Mean±SE, values of duration of surgery, no. of fracture fragments, time till repair, details of implants used, radiographic healing time in weeks and taken to attain mobility and complete weight bearing in weeks

Group	Duration of surgery (minutes)	No. of fracture fragments	Time till repair (days)	Intra-medullary cavity diameter (mm)	Approx % of medullary cavity occupied by IMR	No. of screws in proximal fragment	No. of screws in distal fragment	No. of empty screw holes at the centre (working length)	Screw density	Radiographic healing time (weeks)	Time taken to attain mobility and complete weight bearing (weeks)
A	54.33±1.80	2.82±0.54	3.50±0.34	10.25±0.29	31.77±1.07*	3.16±0.47	3.16±0.30	2.16±1.66	0.75±0.04*	16.37±0.55	10.50±1.36
B	55.33±2.17	4.83±1.37	3.00±0.36	8.98±0.38	39.12±1.36	3.33±0.49	2.50±0.22	2.00±0.00	0.73±0.01*	17.16±0.83	7.16±0.47
C	48.83±1.42	4.30±1.28	4.33±0.91	9.90±0.85	29.76±1.42*	2.00±0.00	2.00±0.00	4.33±0.33	0.48±0.01	16.77±0.52	8.16±1.27
D	51.83±2.28	4.50±1.58	5.83±3.07	9.15±0.55	38.23±0.71	2.00±0.00	2.00±0.00	4.16±0.16	0.48±0.01	15.56±0.64	10.83±2.62

*differ significantly between groups.

Supplementary Table 2. Comparison of lameness scores among the experimental groups (Median and IQR)

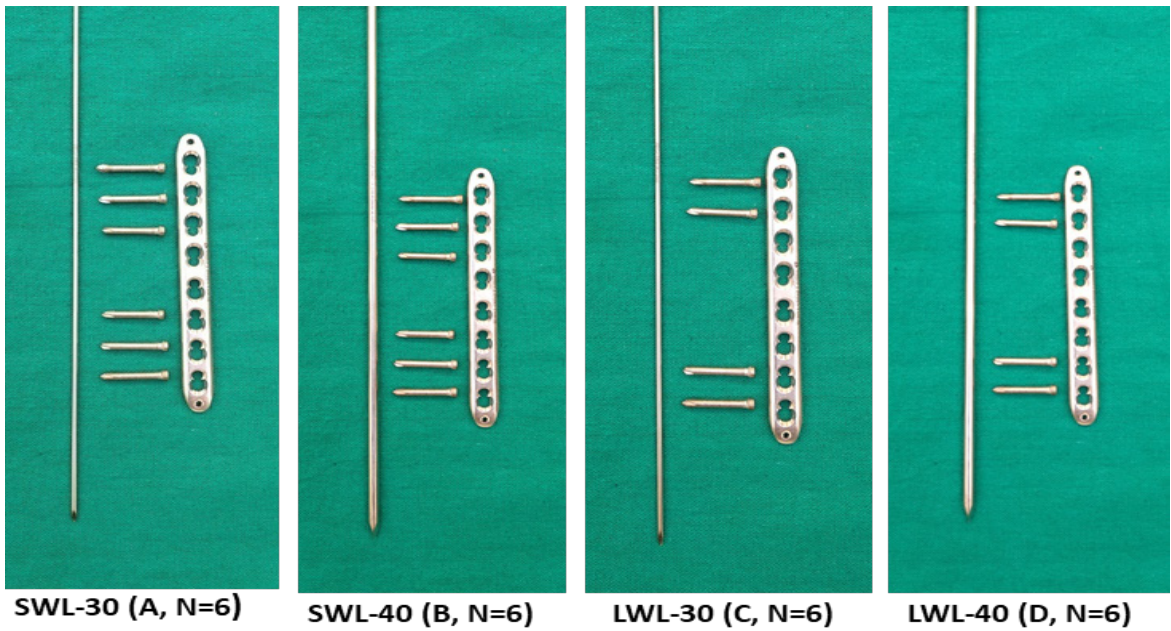
Group	Lameness scores based on stance, walk and trot (Weeks post-surgery)				
	0 day	4 th week	6 th week	10 th week	14 th week
A	0.00 (0.00) ^a	3.00 (2.75-4.00) ^b	4.00 (4.00-5.00) ^c	4.75 (5.00) ^{cd}	5.00 (5.00) ^d
B	0.00 (0.00) ^a	3.00 (2.75-3.25) ^b	4.5 (4.00-5.00) ^c	5.00 (4.75-5.00) ^c	5.00 (4.75-5.00) ^c
C	0.00 (0.00) ^a	3.00 (1.75-3.25) ^b	3.75 (4.00-4.25) ^c	4.00 (4.00-5.00) ^{cd}	5.00 (4.75-5.00) ^d
D	0.00 (0.00) ^a	3.00 (2.00-3.00) ^b	4.00 (4.00-4.25) ^c	5.00 (4.75-5.00) ^c	5.00 (4.75-5.00) ^c

^{abc}Differ significantly between intervals within respective group. Different lowercase superscripts within a row indicates the effect of time post-surgery within a group. Values in each cell indicates median and the values within a parenthesis indicates inter-quartile range.

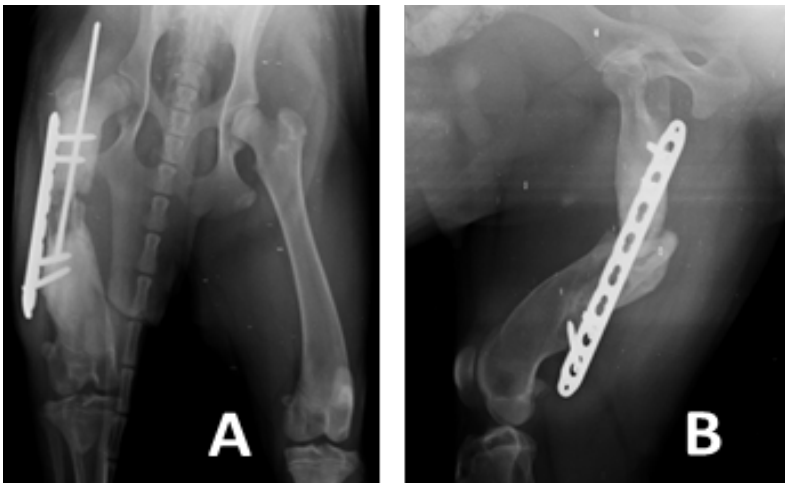
Supplementary Table 3. Comparison of the radiographic union scores among the experimental groups (Median and IQR)

Group	Week post-surgery				
	0	Week 4	Week 6	Week 6	Week 6
A	1.00 (1.00) ^a	2.00 (2.50-3.00) ^b	2.00 (3.00) ^b	3.00 (4.00) ^c	3.75 (5.00) ^d
B	1.00 (1.00) ^a	2.00 (3.00) ^b	2.75 (4.00) ^c	3.75 (4.50-5.00) ^d	4.50 (5.00) ^d
C	1.00 (1.00) ^a	2.00 (3.00) ^b	2.75 (4.00) ^c	3.00 (4.00-5.00) ^d	3.75 (5.00) ^c
D	1.00 (1.00) ^a	2.00 (2.50-3.00) ^b	2.00 (3.50-4.00) ^c	3.00 (5.00) ^d	3.75 (5.00) ^d

Different lowercase superscripts within a row indicate the effect of time post-surgery within a group. Values in each cell indicates median and the values within a parenthesis indicates inter-quartile range.



Supplementary Fig.1. Representative images of the constructs of rod and plate configurations used in the study (SWL: Short working length, LWL: Long working length).



Supplementary Fig. 2. Mediolateral and ventrodorsal views (CII of group C) showing intramedullary rod migration, screw loosening and plate displacement on 2nd week (A) and malunion and loss of bone alignment at week 10 (B).