

The use of transarticular external skeletal fixation in the management of failed tibial tuberosity transposition in five dogs

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Supplementary Table 1: Specific surgical procedures and complications for each individual dog

	Dog 1	Dog 2	Dog 3	Dog 4	Dog 5
Signalment	1yr FN crossbreed dog	9m FE Bull Mastiff	1y MN Springer Spaniel	2.5y MN Golden Retriever	6m ME Chinese Shar Pei
weight at TAESF surgery	19kg	66kg	27kg	44kg	17.5kg
Aetiology	MPL grade 2	MPL grade 2	LPL grade 3	MPL	LPL grade 3
Surgery 1					
Procedures used	TTT lateral imbrication	TTT, lateral imbrication	TTT sulcoplasty, imbrication, release	TTT	TTT, sulcoplasty, imbrication release
Use of tension band Sx 1	No	No	Yes	Yes	No
Complications	TT fracture	Avulsion of TT	Reluxation of patella	TT fracture	Seroma
Surgery 2					
Procedures used	TAESF, patello-tibial suture	Tension band	TTT sulcoplasty, imbrication, release	Tension band	Placement of active suction drain
Complications	pin discharge osteolucency, loose pin	TT fracture	seroma, reluxation, K wire migration	TT fracture	TT avulsion from distal attachment
Surgery 3					
Procedures used	loose pin - replaced, TAESF	TAESF, patello-tibial suture, tendon suture	TTT, release, imbrication	Tension band, TAESF	Tension band, closed suction drain
Complications	pin tract discharge	pin tract discharge/osteolucency	TT fracture	pin tract discharge/osteolucency, seroma	TT fracture
Surgery 4					
Procedures used	removal of patello-tibial wire		TAESF, patello-tibial suture	Implant removal	Patellar tendon to tibia suture, imbrication, suction drain, limb cast
Complications			pin-tract discharge, osteolucency		E. coli sinus tract and TT avulsion
Surgery 5					
Procedures used					Patello-tibial suture, TAESF
Complications					frame deformation - clamp loosening
All Surgeries					
Number of TT surgeries before fracture	one	two	three	one	three
Time frame in situ	38 days	61 days	39 days	44 days	37 days

Key: TAESF = trans-stifle external skeletal fixator; TTT = tibial tuberosity transposition; TT = tibial tuberosity; MPL = medial patella luxation; LPL: lateral patella luxation