



Figure 3 and 4 - Bone consolidation after replacement of the nail via the technique described in this manuscript (Anterior-Posterior and lateral radiographs)



Standard Gamma Femoral Proximal Lockable Intramedullary Nail





A B



2



Figure 4 - Patient with healed fracture without evidence of nail extrusion but still suffering knee pain.

AO group/subgroup	Reduction	Fixation
A1.2 Spiral Oblique	Open compression plating (lag screw fixation) Open/MIPO compression plating (lag screw fixation)	DCS/DF-LCP (the latter to be preferred in osteoporotic bones)
A1.3 (transverse)	Open compression plating	
A2.1 (intact wedge)	Open compression plating (with lag screw fixation of wedge fragment)	
A2.2/2.3 (fragmented wedge)	MIPO bridge fixation	Locking plate*/DCS/retrograde nail
A3 (complex)		



Excluded

- No Coronal Plane Fracture 49 knees
- No ORIF of Coronal Plane Fracture 5 knees
AKA: 6 knees
Osteologic TKA: 3 knees
- Alternative Fixation
Small Fragment Plate: 1 knee
Small Fragment Plate and Lag Screws: 3 knees
Cannulated Screw: 1 knee
- < 6 Months Follow-Up 13 knees

Enrolled

- AO/OTA Type 32-C3 Distal Femur Fractures 126 knees
- 32-3C Fractures with Coronal Plane Fracture 77 knees
- ORIF Coronal Plane Fracture 42 knees
- Small Fragment Lag Screws 57 knees
- 6 Month Follow-Up 44 knees (54 Concluded)

Figure 1 - Classification of distal femoral fractures according to the AO classification [2].



Figure 1 - Classificação das fraturas distais do fêmur de acordo com classificação da AO [2].

Wave Plating :

Wave Plating for non union.





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Table 2

Breakage Occurring at the Screw Hole in Intramedullary Nails for Treatment of Femoral Fractures

Case	Age (yr)/Gender	Initial Nail	Time to Breakage (mo)	Fracture Location	Distance from Fracture to Breakage (cm)	Treatment	Result
1*	36/male	AO/MSF	8	Upper third	9	C-K-chance graft	Refraction
2	37/male	AO/MSF	4	Middle third	14	C-K-chance graft	Union
3	39/male	G-K	5	Distal third	2	C-K-chance graft	Union
4	65/male	AO/MSF	39	Middle third	4	C-K-chance graft	Union
5	72/male	AO/MSF	5	Upper third	4	C-K-chance graft	Nonunion

Abbreviations: G-K=Grassie-Kempf nail.
*Same patient as case 1 in Table 1.
(Same patient.)



2A