

Treatment of congenital pseudarthrosis of the tibia by a vascularised fibular graft

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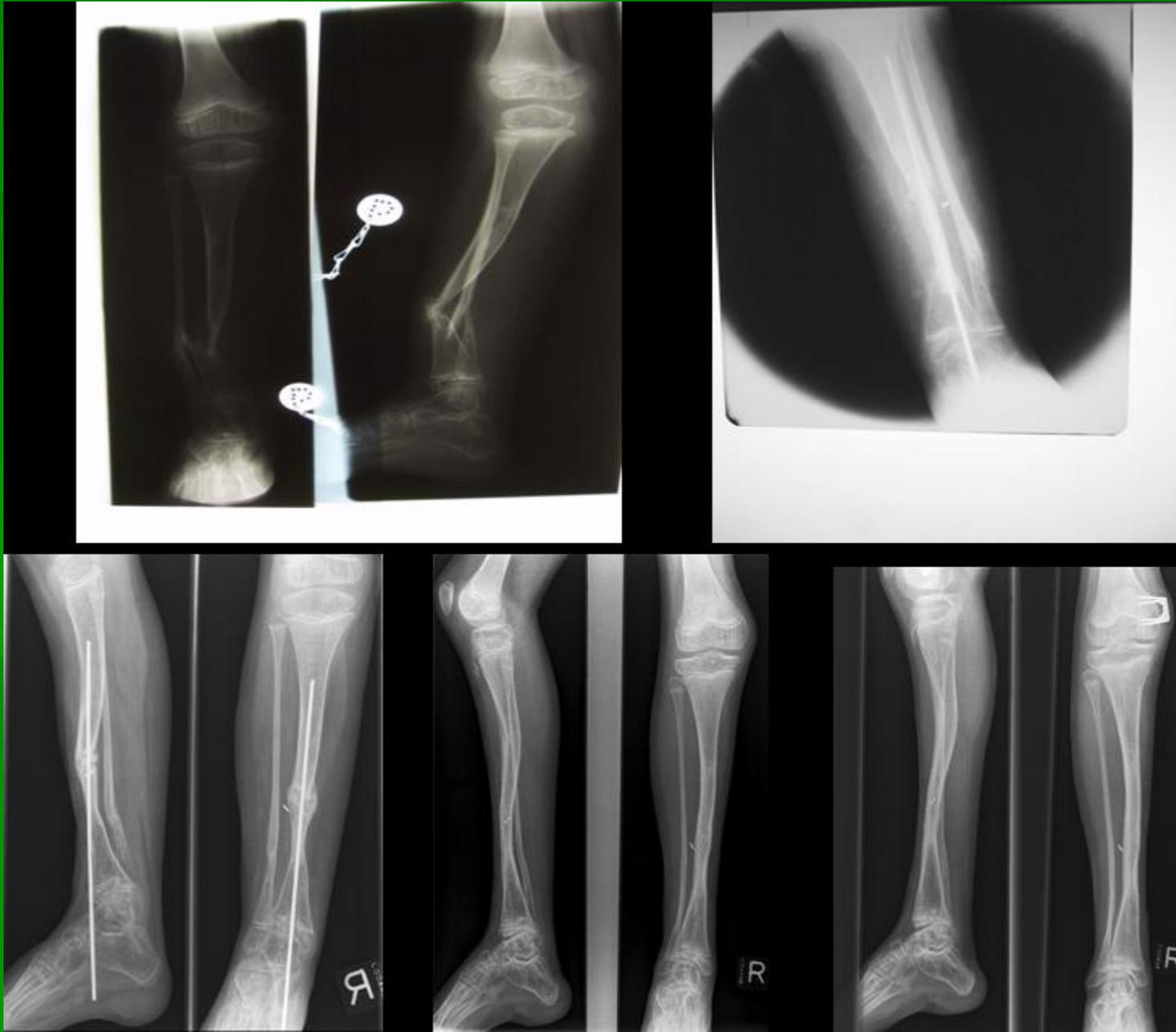
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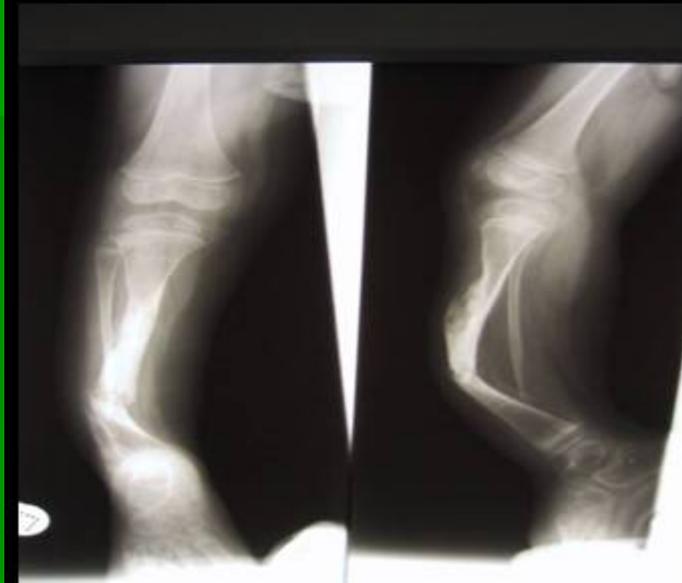
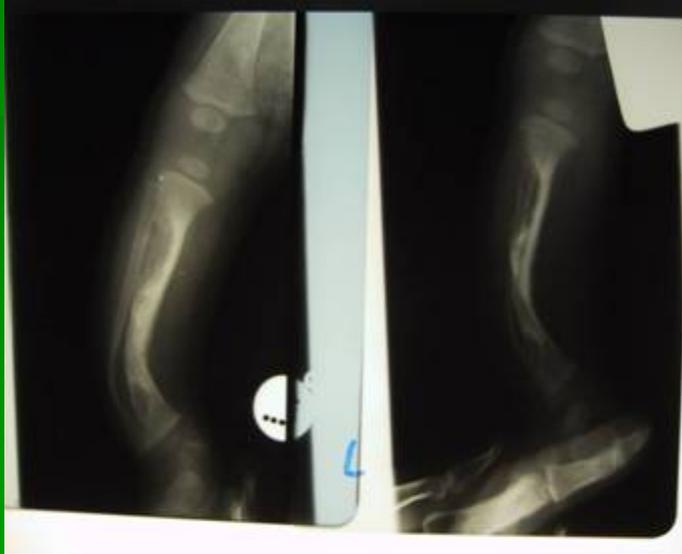
Treatment is based on this principles :

1. Resection of the pseudoarthrosis over the margins of the healthy and bleeding tissue.
2. Over-bridging of the bone-defect by a transplanted fibular graft on the vascular pedicle.
3. Mikroanastomosis of the artery and vein.

No 1 additional spongioplasty at the proximal pole of the graft was necessary 6 yrs



No 2 Multiple cystic lesions, anterolateral bowing and finally fracture developed, additional spongionasty was necessary 6 yrs



No 2 The same patient. Incorporation of the graft and its gradual thickening is apparent
6 yrs



No 3 Severe deficiency of bone tissue after repeated operations. Vascularised graft healed in, however distal tibial physis was already lost. 10 yrs



No 4 Routine method and course of treatment. Postoperative angiography showed primary vascularisation of the graft. Gradual thickening of the graft is apparent, the growth deformity of distal tibia is apparent. 3 yrs



No 5 Last patient, short follow up, rapid incorporation of the graft 2 yrs.



Structure of the followed cohort

- Crawford type IV in 4 out from 5 pts.
- Periheral neurofibromatosis in 4 from 5.
- Age at OP 2y+8M - 8y.+10M
- Male 3 times, female 2 times
- Duration of OP 130-200 minutes
- Additional spongioplasty in 2 from 5 pts.

- Duration of the treatment concerning full incorporation of the graft 6M-21 M
 - Resulting LL difference 10-90 mm
 - Duration of the follow-up 3-10 years
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- Thanks for Your interest for this paper