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Osteoid Osteoma RFA - aiming for zero recurrence.

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Description:

Over a 13 year period, a single radiologist (AJD) performed radiofrequency ablation (RFA) of osteoid osteoma in 32 patients. The lesions were located mostly in the lower extremities (femur N=15, tibia N=9) and spine (N=5). Lesion size varied from 4 to 18 mm, average 10 mm. Patient age ranged from 5 to 23 years, average 14 years. All but two had RFA as their primary treatment, with two treated after surgical excision had resulted in recurrence.

CT guidance was used for all procedures, performed under general anaesthetic. A variety of different radiofrequency generators and probes were used. No complications occurred. None of the patients showed any signs of recurrence and none required further intervention. Although the followup period varied (and a few patients were lost to followup after a few weeks), most of the patients were followed for at least 12 months post procedure, with maximum followup seven years.

We conclude that, with careful technique, the recurrence rate for RFA of osteoid osteoma can approach zero. Details of technique are discussed in the poster itself.