

# OSTEOID OSTEOMA OF THE SUPERIOR PUBIC RAMUS:A DIAGNOSTIC DILEMMA

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## INTRODUCTION

10% OF ALL BENIGN BONE TUMORS

MOST COMMON SITES ARE THE  
SUBCORTICAL SHAFT AND  
METAPHYSES OF LONG BONES

THE INVOLVEMENT OF PELVIS  
AND FLAT BONES HAS NOT  
BEEN DESCRIBED EXTENSIVELY  
IN LITERATURE

WE WOULD LIKE TO PRESENT A  
CASE OF OSTEOID OSTEOMA OF  
THE SUPERIOR PUBIC RAMUS

NO CASE WITH INVOLVEMENT OF  
THIS SITE AND ITS MANAGEMENT  
HAS BEEN DESCRIBED

THE INVOLVEMENT OF THIS  
SITE POSES A DIAGNOSTIC  
DILEMMA OWING TO ITS RARITY

## CASE REPORT

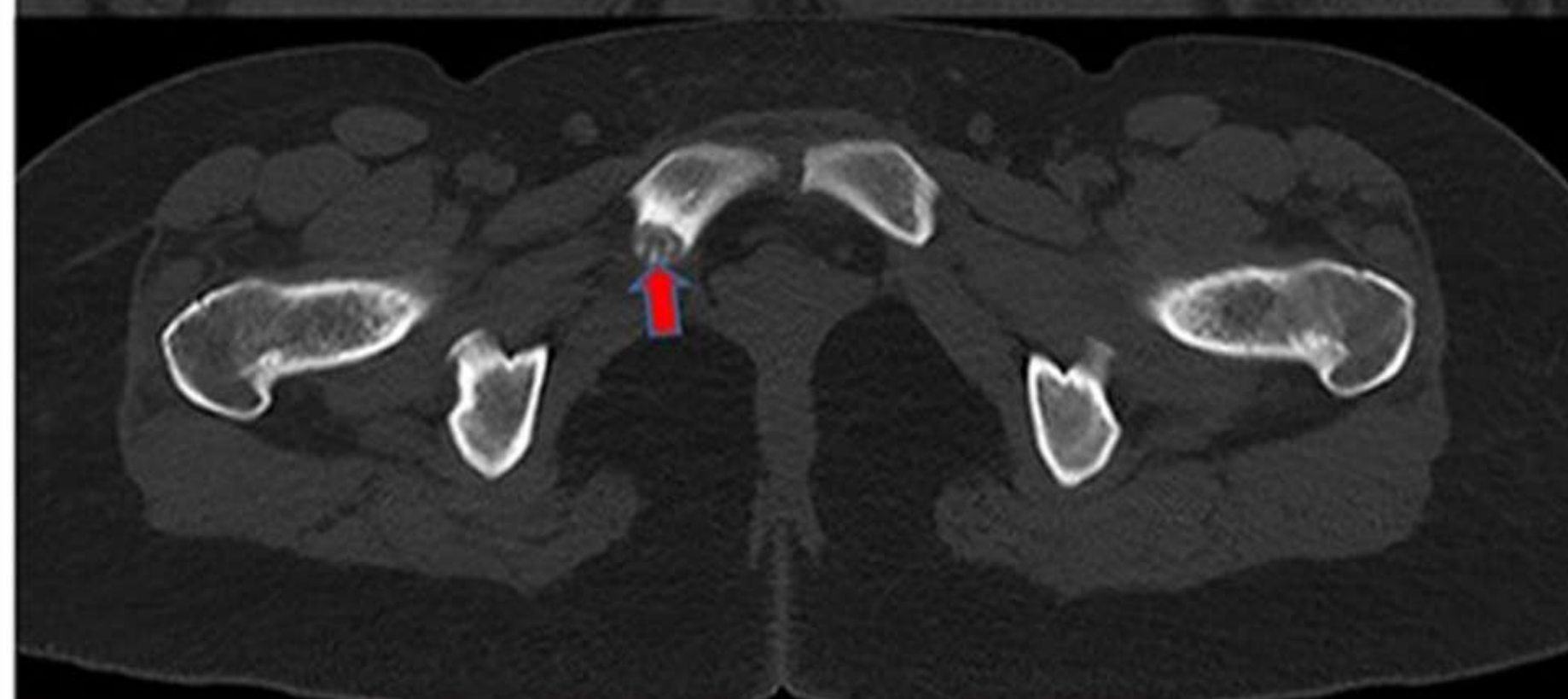
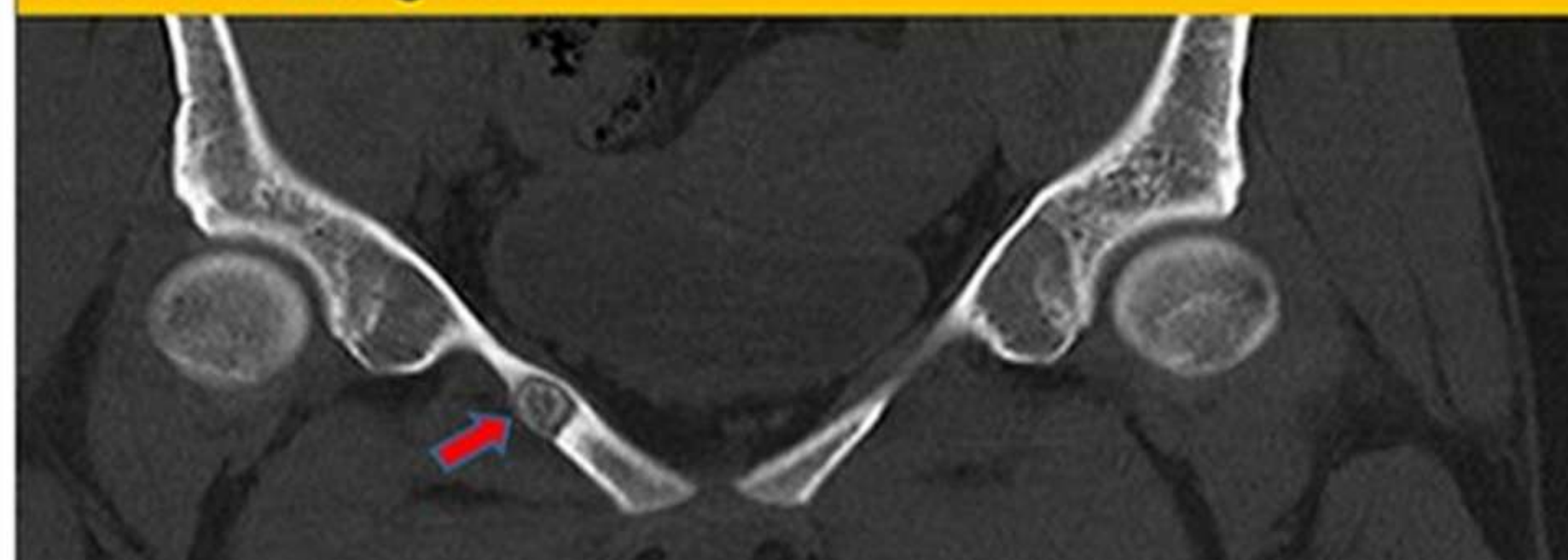
A FIFTEEN YEAR OLD GIRL WITH  
PAIN IN THE RIGHT HIP JOINT  
PAINFUL LIMP } SINCE ONE YEAR  
ASSOCIATED WITH INCREASE IN  
PAIN AT NIGHT NO RELIEF OF  
SYMPTOMS WITH ANALGESICS  
TENDERNESS ON DEEP PALPATION  
OVER THE HIP JOINT AND PUBIC  
SYMPHYSIS.

## OPERATIVE FINDINGS

Plain X ray of pelvis- well demarcated osteolytic lesion



CT examination revealed well demarcated 1cm lesion  
over the right superior pubic ramus with a nidus and  
sclerotic margins



Bone scan showed double density sign distinguishing it  
from osteomyelitis

### Treatment

Radiofrequency ablation with 1.5 mm probe  
generating 5 K-watt power and 1.02 KJ energy, for  
about 7.5 minutes



Post surgery complete pain relief was achieved beginning  
on the first postoperative day.



At one year follow-up the patient remained  
asymptomatic. Xrays show no evidence of recurrence



## DISCUSSION

THIS IS THE FIRST CASE OF OSTEOID OSTEOMA OF THE  
SUPERIOR PUBIC RAMUS IN THE LITERATURE REVIEWED

THE PROXIMITY OF THE LOCATION TO THE HIP JOINT  
MIMICKS MORE COMMON PROBLEMS OF THE HIP JOINT,  
HENCE MAY CAUSE DELAY IN DIAGNOSIS AND SIGNIFICANT  
MORBIDITY TO THE PATIENT

RADIOFREQUENCY ABLATION IS A LESS INVASIVE  
PROCEDURE WITHOUT SIGNIFICANT DAMAGE TO THE  
SURROUNDING SOFT TISSUES IN COMPARISON TO SURGERY.

## CONCLUSION

OSTEOID OSTEOMA OF THE SUPERIOR PUBIC RAMUS,  
THOUGH RARE, SHOULD ALWAYS BE CONSIDERED IN A  
CHILD WITH HIP PAIN WHICH DOESN'T RESPOND TO  
CONVENTIONAL TREATMENT MODALITIES

### References

1. Cortese, M.C., Albano, D., Messina, C. *et al.* Multicentric, multifocal, and recurrent osteoid osteoma of the hip: first case report. *BMC Musculoskelet Disord* 20, 171 (2019). <https://doi.org/10.1186/s12891-019-2552-x>
2. Kristopher De Gama *et al.* Polyostotic osteoid osteoma:A case report. <https://doi.org/10.1016/j.radcr.2020.01.012>
3. Amanatullah DF, Mallon ZO, Mak WH, Borys D, Tamurian RM. Pelvic osteoid osteoma in a skeletally mature female. *Am J Orthop (Belle Mead NJ)*. 2011 Sep;40(9):476-8. PMID: 22022677.