

PAEDIATRIC POST-TRAUMATIC CYST LIKE LESION FORMATION FOLLOWING A DISTAL END RADIUS GREENSTICK FRACTURE

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Introduction: Presenting a rare case of a post traumatic cyst-like lesion in growing age children, which could easily be mistaken for a neoplasia. Usually seen in greenstick fracture at metaphyseal region of the radius. It does not occur immediately but takes time to evolve relatively within one month into a lucent like lesion. It could be a single or multiple lesion. Presence of fatty marrow entrapped in sub periosteum during MRI makes it distinctive from other type of bone lesion. It is a benign, non-expansible and resolve spontaneously.

Discussion: A 14 years old boy was presented with complain of pain and swelling of his right wrist following an incident where he slipped and fall while playing football. Patient was initially treated for closed undisplaced distal end right radius fracture (Salter Harris Type 3) and above elbow back slab was applied. Patient was given analgesic and TCA in one week. During patient's next appointment, no obvious changes in x-ray features and above elbow cast was applied, with TCA in two weeks time. Upon post trauma three weeks, radiograph yielded multiple well circumscribed lucent lesion at the metaphyseal diaphyseal region of the distal end right radius without surrounding sclerosis of it. Patient initial x-ray was then reviewed again, noted that there was a greenstick fracture with periosteal elevation at the same region the multiple lucent lesion seen currently. MRI was done which noted fat fluid level within the sub periosteal region of the cyst like lesion. Patient cast was kept for 2 months before removed with four months follow up period. Upon final follow up before discharge the lucent lesion was diminishing and fracture was united.

Conclusion: It is pivotal to recognize these kind of benign lucent lesion, as it would surely prevent any redundant procedures to confirm the diagnosis.