

MICOD – 30/05/2024

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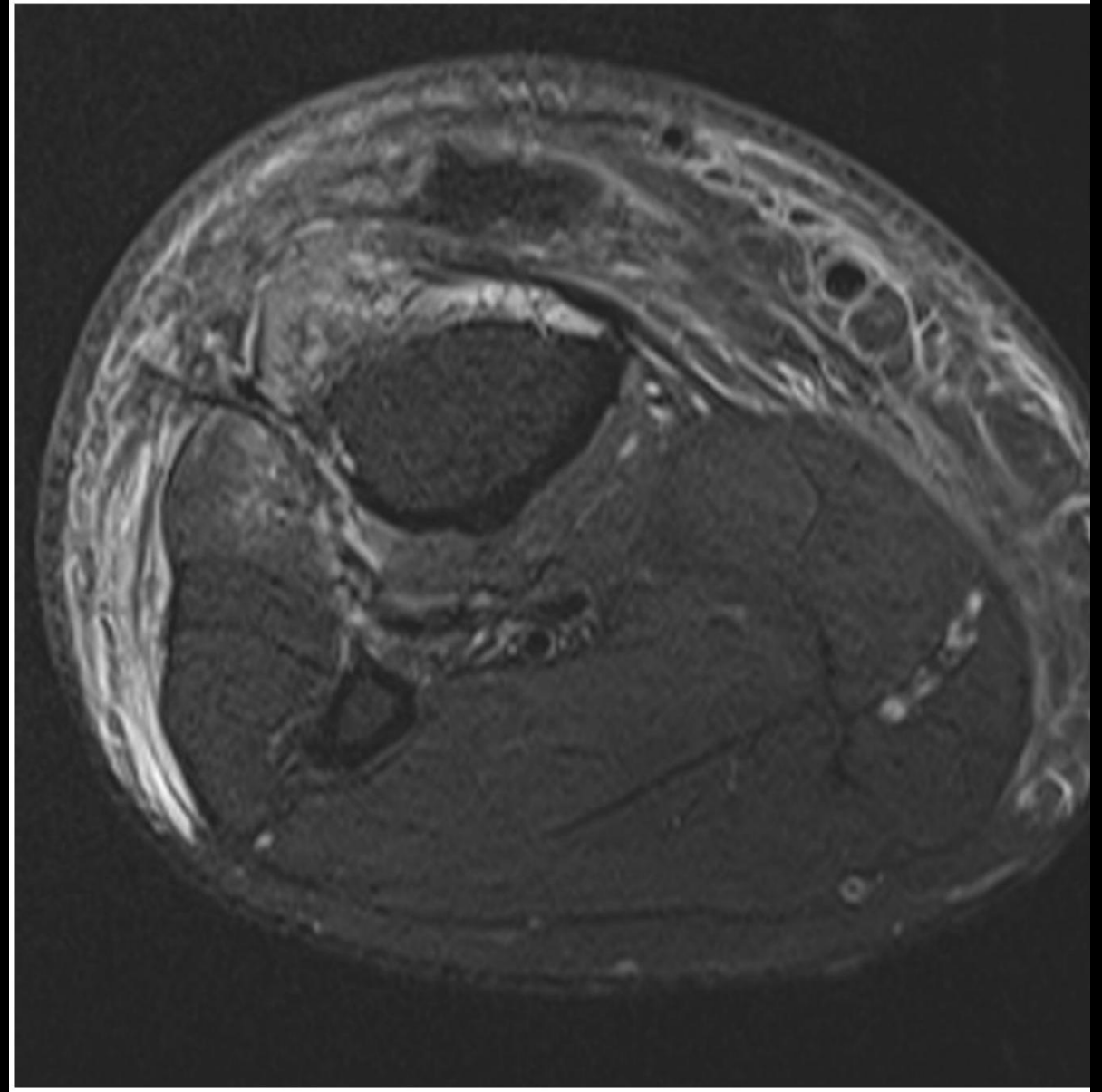
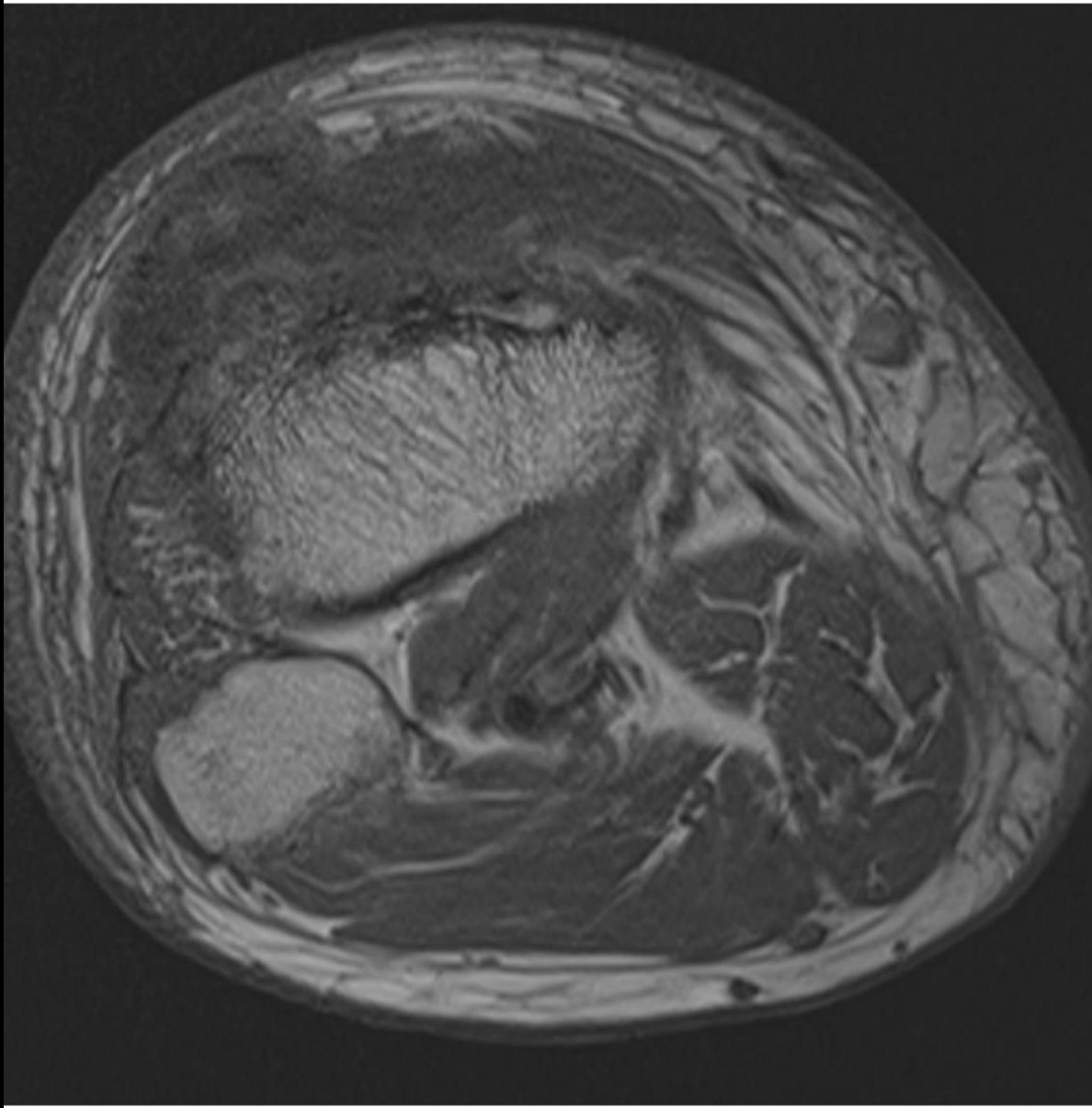
MI-COD

MSS INDIA- Case Of the Day





SWELLING AT TIBIAL TUBEROSITY



Pagets of Tibial tuberosity with fracture

Pictorial review

Tibial tuberosity lesions

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Pagets of Tibial tuberosity with fracture

Background

- Paget's disease of the bone is a non-malignant skeletal disorder characterized by focal abnormalities in bone remodelling at one or more skeletal sites.
- Pathological fractures occurring from trivial injuries are a well-known clinical presentation in patients with Paget's disease.
- An avulsion fracture of the tibial tuberosity is an infrequent injury and has an extremely low occurrence in adults, with only a few cases reported in literature.
- We describe a case of a patient with undiagnosed Paget's Disease of the bone, sustaining a pathological avulsion fracture of the tibial tuberosity.

Pathology

- The etiology is not entirely known, but it is a disease of osteoclasts. Viral infection (paramyxovirus) in association with genetic susceptibility has been postulated.
- There are three classically described stages, which are part of a continuous spectrum.
- **early destructive stage** (incipient active, lytic): predominated by osteoclastic activity.
- **intermediate stage** (active, mixed): osteoblastic as well as osteoclastic activity.
- **late stage** (inactive, sclerotic/blasti).

Pagets of Tibial tuberosity with fracture

Management

- Symptomatic patients are treated with bisphosphonates (e.g. alendronate) aiming to reduce the bone turnover, promote healing of osteolytic lesions and improve bone pain.
- Analgesics and non-hormonal anti-inflammatory drugs are also prescribed for pain management.

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- THANK YOU.