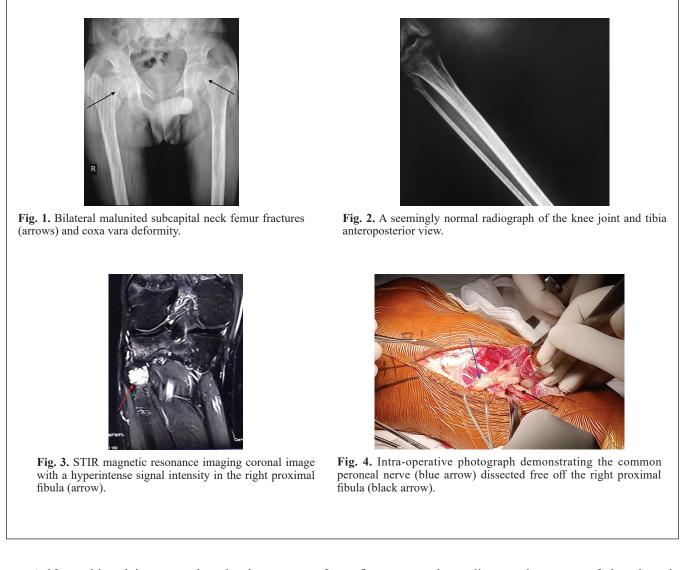
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## Phosphaturic mesenchymal tumour: A rare tumour & its diagnostic dilemma



A 32 yr old male<sup>†</sup> presented to the department of Orthopaedics, Seth G.S. Medical College, Mumbai, India, in July 2019, complaining generalized arthralgia, weakness and difficulty in walking (Fig. 1) for the past five years and was diagnosed as a case of phosphaturic mesenchymal tumour (PMT) of the proximal fibula with severe osteomalacia and elevated fibroblast growth factor (FGF)-23 (Figs 2 and 3). Surgical

<sup>&</sup>lt;sup>†</sup>Patient consent obtained to publish clinical information and images.



**Fig. 5.** Intra-operative image demonstrating dissection of expanded right proximal fibula (arrow) and excision of proximal fibula around 6 cm of length with normal tumour-free margin.



Fig. 6. Post-operative radiograph with proximal fibula excision and reattachment of the lateral ligament complex by suture anchor (arrow).

excision of the right proximal fibula was planned and carried out along with calcium, phosphate and vitamin D supplementation (Figs 4-6). Post-surgery, the patient's phosphate and FGF-23 levels returned to normal and his symptoms largely resolved at seven months of follow up.

PMTs are rare tumours which are frequently associated with tumour-induced osteomalacia that manifests as renal phosphate wasting. It should be kept as a differential diagnosis in mind when treating patients with severe osteomalacia and pathological fractures (Fig. 1) because isolated calcium and vitamin D supplementation is inadequate to treat this uncommon condition and renal phosphate wasting promptly resolves upon removal of the tumour.

Conflicts of Interest: None.

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