Dear Editor,
It was with great interest we came across a case report titled “SAPHO syndrome: A Radiological Case Report” in the Jan-Mar 2020 (Volume 30, Issue 1). The article has succinctly detailed SAPHO syndrome with spectrum of clinical and imaging findings. A brief reference was also made to colloquially known paediatric equivalent i.e., Chronic Regional Multifocal Osteomyelitis (CRMO), it is in this regard we wish to expand on the previous article with our findings and observations of a known case.

A 10-year-old boy presented to us with on and off pain in the right knee since 4 months with new onset swelling and exacerbation. He played basketball and football for his school team, but increasing pain was impairing his movement on the playing field. There was no history of known trauma. On clinical exam, there was slight swelling along the knee with redness and significant tenderness on touch. The remainder of the clinical examination was normal. The initial lab non-significant elevated WBC count and ESR.

The radiograph [Figure 1] of the right knee showed an aggressive permeative lesion with an ill-defined margin and wide zone of transition involving the distal metadiaphyseal region of the femur with “Codman’s triangle” appearance of periosteal reaction. In view of the clinical course and imaging findings possible differentials included Osteosarcoma, Ewing’s sarcoma or unlikely Osteomyelitis.

Surprisingly, when CXR [Figure 2] on admission was reviewed, we saw sclerosis and cortical thickening along the posterior aspects left ribs (6th–8th). This changed our differential to possible Multifocal osseous lymphoma versus unlikely widespread Langerhans cell histiocytosis.

A minimally invasive open approach biopsy of the femoral lesion showed no evidence of tumor or infection. Serology for typical and atypical infections was also negative. At this point, the diagnosis of CRMO was suspected and a whole body scintigram was obtained [Figure 3]; with scan showing uptake along posterior aspects of lower left ribs and right lower end of femur confirming our suspicion.

Figure 1: AP radiograph of right knee. There is an aggressive permeative lesion with wide zone of transition involving the distal metadiaphyseal region of the femur with “Codman’s triangle” type of periosteal reaction.

Figure 2: CXR. There is sclerosis and cortical thickening along the posterior aspects left ribs (6th-8th).
Letters to the Editor

CRMO is thus an extremely rare presentation with unknown pathogenesis. It is largely believed to be a slow response to an undetected infection versus a sequel to an autoimmune condition. The disease being a diagnosis of exclusion is a significant challenge with multiple differential diagnoses. A combination of imaging, clinical input, and adherence to a proposed diagnostic criteria improves confidence in cases. Treatment involves combination of anti-inflammatory medication with bisphosphonates. A timely diagnosis of CRMO presents us with an opportunity to spare a paediatric patient from a significant number of unnecessary investigations, antibiotics and repeated biopsies.

Declarations of patient consent
The authors certify that they have obtained all appropriate patient consent forms. In the form the patient(s) has/have given his/her/their consent for his/her/their images and other clinical information to be reported in the journal. The patients understand that their names and initials will not be published and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

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Conflicts of interest
There are no conflicts of interest.

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Bibliography


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