Rare case of sacral mass due to chondromyxoid fibroma

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DESCRIPTION
Chondromyxoid fibroma is a rare benign tumour derived from cartilage and generally seen in the metaphyseal region of long bones. It is rarely seen in the axial skeleton.1–3 Fibroma, aneurysmal bone cyst, chondroblastoma and fibrous dysplasia must be evaluated in the radiographic differential diagnosis of chondromyxoid fibroma. Being an eccentric metaphyseal location, showing sharp, sclerotic, scalloped margins and matrix calcification are its major radiographic features. In pathological evaluation, the tumour shows a distinctly lobulated pattern of growth, with peripheral hypercellularity of the lobules, and the tumour cells are spindled and stellate. The stroma is myxoid, but rarely well-formed hyaline cartilage is present.

An 18-year-old male patient was admitted to our clinic with increasing coccydynia for 6 months.
Direct roentgenography revealed a sacral mass (figures 1 and 2). CT and MRI demonstrated an osteolytic expansile soft tissue mass on sacral (S 2–3) vertebrae (figures 3 and 4). A suspected chondromyxoid fibroma was reported on needle biopsy. Intralesional curettage and hydroxyapatite grafting was performed. The pathology report confirmed the definitive diagnosis to be chondromyxoid fibroma (figure 5). No recurrence was seen in 1-year follow-up and no pain was detected. This case demonstrates a differential diagnosis for back pain due to sacral mass in young adults.

Learning points

▸ Coccygeal and sacral pain should be evaluated for possible tumoural masses as well as trauma, fractures, infections and sacroiliac joint pathologies.
▸ Ultrasonography, direct roentgenography, CT and MRI may be used for diagnosis. Biopsy should be performed in the first step to detect the possible pathology and plan the final treatment approach in cases of a tumoural mass.
▸ Chondromyxoid fibroma may affect the sacrum as it does in the long bones and should be included in the differential diagnoses of sacral lesions in young adults. A biopsy is mandatory for definitive diagnosis.

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REFERENCES