Symptomatic manubriosternal joint involvement in rheumatoid arthritis

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SUMMARY The manubriosternal joint is commonly involved in rheumatoid arthritis but rarely gives rise to symptoms. A patient is reported with seropositive, erosive rheumatoid arthritis, who developed symptoms resembling pleuritic pain, arising from synovitis of the manubriosternal joint. Treatment with intra-articular steroid injection resolved these symptoms rapidly.

Case report

A 61 year old female patient with a 14 year history of seropositive, erosive rheumatoid arthritis attended clinic complaining of anterior chest pain. This pain had been present for six months, was localised to the sternal region, and was exacerbated by coughing and by deep inspiration. An unproductive cough had been present over the same period, but she denied any shortness of breath. Although she admitted to only 30 minutes of early morning stiffness, her arthritis was active with many tender, swollen joints, a Health Assessment Questionnaire score of 2.625, a plasma viscosity of 1.93 cP, and a platelet count of 410x10⁹/l. Examination of the cardiovascular and respiratory systems was normal. There was marked soft tissue swelling and tenderness over the manubriosternal joint (Fig. 1). A lateral radiograph of the sternum showed subchondral sclerosis and erosions of the manubriosternal joint (Fig. 2). Aspiration of the manubriosternal joint was unsuccessful, and the joint was injected with triamcinolone hexacetonide 20 mg mixed with 1% lignocaine, resulting in virtually complete resolution of symptoms over the following week.

Discussion

Anterior pleuritic pain in patients with rheumatoid arthritis usually arises from pericardial or pleural causes. This patient, however, demonstrates that anterior chest pain of a pleuritic character may also arise from synovitis of the manubriosternal joint. The manubriosternal joint is an amphiarthrodial...
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joint containing synovium, and radiological change is a frequent finding in patients with rheumatoid arthritis. Manubriosternal joint subluxation has been documented and is associated with severe cervical spine disease, as well as with thoracic kyphosis.

Synovitis of the manubriosternal joint is presumably common but because of the relative immobility of the joint is seldom clinically apparent. When symptoms do occur the possibility of superimposed infection needs to be considered. Our patient demonstrates that synovitis of the manubriosternal joint can be symptomatic and that it may respond promptly to intra-articular steroid injection.

References

Fig. 2 Lateral radiograph of the manubriosternal joint showing sclerosis and erosion of the joint.
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