CASE REPORT

Unusual presentation of tuberculosis to the accident and emergency department

K.E. JONES & C.A.J. McLAUCHLAN

Accident & Emergency Department, Frenchay Hospital, Bristol

SUMMARY

A patient with localized, reactive tendinitis secondary to tuberculosis presented to the accident and emergency (A&E) department. Tendinitis is a relatively common complaint, and it is important to consider uncommon systemic causes, including tuberculosis.

Key words: common, rare, systemic, tendinitis, tuberculosis

CASE HISTORY

A 34-year-old Indian male presented to the A&E department complaining of bilaterally painful Achilles tendons, worse on the left. There was no recent overuse or trauma. He also complained of intermittent night sweats over the previous week. On examination there were bilateral tender, swollen Achilles tendons and paratendons. He was afebrile. Treatment was commenced with Diclofenac, and the most painful leg placed in a below knee plaster for comfort.

On review 5 days later the painful tendinitis and night sweats were persisting. Swinging fevers were confirmed by home temperature recording. A tender cervical lymph node was found on further examination. An elevated C-reactive protein (57) and a plasma viscosity (1.85) were the only abnormal blood tests. A chest radiograph was normal.

A working diagnosis of atypical sero-negative arthritis (Reiter’s Disease) was made, although he had no urethritis or iritis, and had tendinitis rather than arthritis. He was referred to the Department of Medicine as an out-patient, where this presumptive diagnosis was supported. A Mantoux test performed in the last 2 years was negative and he had received a BCG as a baby his native home of India. He had left India 12 months previously to work in the UK. Two weeks after the patient’s initial presentation a rigor precipitated an emergency admission by his general practitioner under the care of the general physicians. Further investigation showed a 3/4 positive Heaf Test, and an excision biopsy of the cervical node showed active tuberculosis. The patient made good general progress on triple therapy.

However, after starting therapy he developed further fitting tendinitis in his shoulder (requiring steroid injection), patella tendon, extensor pollicis longus, flexor carpi ulnaris and toe extensors.

DISCUSSION

Inflammation of the bursal sac (lying between the Achilles tendon and the calcaneum), or inflammation of the Achilles tendon itself, may be due to local or systemic causes. Local causes are usually secondary to trauma, such as ill-fitting shoes, or sporting overuse. Achilles tendinitis may occur as a reaction to systemic disease, e.g. rheumatoid arthritis sero-negative arthritis, ankylosing spondylitis, gout, gonorrhoea and tuberculosis.

The following should raise the index of suspicion for a systemic cause: bilateral tendinitis, a slow onset of symptoms and persistent severe symptoms not relieved by local measures. In young males particularly, symptoms in this area are often an early manifestation of ankylosing spondylitis. Inflammation of the Achilles tendon tends to be more proximal in systemic disease than in traumatic causes.

Tuberculosis may cause Achilles tendinitis in two ways. Tubercle bacillus may invade the tendon sheath directly, causing progressive local symptoms and signs. Diagnosis is difficult, and excision of the lesion is required.

Secondly, Achilles tendinitis may occur rarely as an early localized reactive phenomenon of tuberculosis, progressing to a widespread fitting tendinitis. The literature reports several cases of localized infection, but no cases of a reactive tendinitis have been reported since 1960.

It is important to consider the wide range of systemic diseases as a possible cause of tendinitis,
which is a common complaint presenting to the A&E department. Furthermore, tuberculosis must be considered when unusual soft-tissue problems present in patients who are from the Asian subcontinent.

ACKNOWLEDGEMENTS

Grateful thanks to Mrs J. Beddoe for preparing the manuscript, and Dr R.J. White and Dr V. Kyle for their advice.

REFERENCES

Unusual presentation of tuberculosis to the accident and emergency department.

K E Jones and C A McLauchlan

doi: 10.1136/emj.12.2.149

Updated information and services can be found at:
[http://emj.bmj.com/content/12/2/149](http://emj.bmj.com/content/12/2/149)

These include:

**Email alerting service**

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:
[http://group.bmj.com/group/rights-licensing/permissions](http://group.bmj.com/group/rights-licensing/permissions)

To order reprints go to:
[http://journals.bmj.com/cgi/reprintform](http://journals.bmj.com/cgi/reprintform)

To subscribe to BMJ go to:
[http://group.bmj.com/subscribe/](http://group.bmj.com/subscribe/)