22 year old HIV negative Asian woman was diagnosed with tuberculosis (TB) following onset of cough, fevers, and weight loss. A chest radiograph showed bilateral reticulonodular shadowing and bronchoscopy cultured fully sensitive Mycobacterium tuberculosis. She began routine quadruple therapy and her symptoms resolved.

Four months into treatment she developed an occipital headache, tinnitus and diplopia, with papilloedema on examination. A CT scan (Niopam contrast enhanced, 5 mm slices) showed multiple ring enhancing lesions in the cerebral hemispheres and brainstem consistent with cerebral tuberculomas (fig 1), but no signs of raised intracranial pressure. An MRI scan (non-contrast) revealed an asymptomatic tuberculoma in the lower spinal cord (fig 2). The patient was treated with high dose oral steroids and continuation of her antituberculous chemotherapy, with resolution of all symptoms.

Cerebral tuberculomas are a rare but well recognised complication of TB and most cases have associated tuberculous meningitis. Paradoxical development or enlargement of tuberculomas during antituberculous chemotherapy has also been reported, and possibly has an immunological basis.1–3 Treatment is with high dose steroids and continuation of antituberculous therapy, often for a prolonged course. Surgery has been used in isolated cases.4,5 Tuberculomas should be considered in patients with TB presenting with focal neurology or signs of raised intracranial pressure, even when established on treatment.

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 REFERENCES

Figure 1 CT scan showing cerebral tuberculomas (arrowed).

Figure 2 MRI scan of the lower spine showing cerebral tuberculoma (arrowed).

Learning points

- Tuberculomas should be considered in patients with TB presenting with focal neurology or signs of raised intracranial pressure, even when established on treatment.
- They do not represent failure of antituberculous chemotherapy, which should be continued for a prolonged course with the addition of high dose steroids.

P Dennison G Rajakaruna
Oxford Chest Unit, Churchill Hospital, Oxford, UK
Correspondence to: Dr P Dennison, Oxford Chest Unit, Churchill Hospital, Oxford OX3 7LJ, UK; paddydennison@hotmail.com

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Cerebral tuberculoma

P Dennison G Rajakaruna

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