Hilar Gland Tuberculosis in Nepalese Adults Masquerading as Malignant Lymphoma

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SUMMARY: We report two Nepalese patients with tuberculosis, in whom the sole chest X-ray abnormality was hilar lymphadenopathy. This rare variant of tuberculosis, not previously described in Nepalese patients, may easily be mistaken for malignant lymphoma.

Introduction
Although the chest X-ray appearances of post-primary tuberculosis are extremely varied, the finding of hilar adenopathy as the sole abnormality appears to be rare in patients of European stock. This variant of tuberculosis, which may easily be mistaken for malignant lymphoma, bronchial carcinoma or even sarcoidosis, has however been described in Indian and African adults. We describe for the first time, this rare presentation in two Nepalese women and draw attention to the similarity of the clinical picture to malignant lymphoma.

Case I
A 26 year old Nepalese woman presented with a six week history of fever, malaise, weight loss of about 8 kg and a cough productive of white sputum. On examination a single enlarged right supraclavicular lymph node was palpable. Her Heaf test was strongly positive (Grade IV) and a chest X-ray showed right hilar lymphadenopathy but was otherwise normal (Fig 1). The ESR was 107 mm/hour, haemoglobin 10 g/dl, MCV 87fl and white cell count 4.7 × 10^9/l without any atypical cells. Examination of stool showed a hookworm infestation which was thought to account for the anaemia, but Ziehl-Neelsen stain of the sputum was negative for tubercle bacilli, as was culture on Lowenstein-Jensen medium. The clinical suspicion of tuberculosis was confirmed by histology of the excised supraclavicular lymph node. Treatment with Rinfah 300 ii daily and ethambutol 15 mg/kg/day resulted in rapid clinical improvement and gradual resolution of the right hilar adenopathy (Fig 2). The ethambutol was discontinued after 8 weeks. It is intended to continue the Rinfah 300 for 9 months.

Discussion
Radiological evidence of hilar lymphadenopathy is rarely found in patients of European stock with post-primary tuberculosis.

Fig 1. - Patient 1. Chest X-ray before treatment
In the two patients described, the radiological features, coupled with fever, weight loss, supraclavicular lymphadenopathy and the enormously raised ESR were more suggestive of a malignant lymphoma. When superficial lymphadenopathy is present, as in our cases, a precise diagnosis can be rapidly arrived at by surgical biopsy. In patients without accessible lymph nodes however, more invasive procedures such as mediastinoscopy may be considered.

The diagnosis of tuberculosis might not immediately suggest itself in the absence of the more typical radiological features and of tubercle bacilli from the sputum. Although it has never been previously described in Nepalese, in Indians and Africans post-primary tuberculosis may rarely present with hilar lymphadenopathy as the sole chest X-ray abnormality.

The Heaf test then assumes a central diagnostic role, as a Grade IV reaction would favour tuberculosis, while being strongly against the diagnosis of lymphoma or sarcoidosis. We believe that the policy used by Farrow et al for the management of Indians with hilar adenopathy can be safely extended to Nepalese patients. Those presenting with hilar adenopathy plus a strongly positive Heaf test should be treated for tuberculosis without resort to mediastinoscopy or biopsy. Invasive procedures should be reserved for those in whom the clinical picture is atypical, the blood film is abnormal or those who fail to respond to adequate antituberculosis chemotherapy.

REFERENCES