Unusual lung consolidation in SLE
Pulmonary manifestations of systemic lupus erythematosus (SLE) include acute lupus pneumonitis, chronic interstitial pneumonitis, diaphragmatic dysfunction, atelectasis, pulmonary vascular disease, upper airway dysfunction, and bronchiolitis obliterans.

Pneumonia due to infection also develops because infection is a major cause of death of patients with SLE. Here, we report a patient with SLE who suffered from an ambulatory lung consolida
deviof pathogens.

A 61 year old woman with SLE had been treated with 10 mg prednisolone every other day since 1990 without deterioration in the disease. She had complained of cough, purulent sputum, and fever once or twice a month since September 1998 which resolved spontaneously within a few days. In October 1999 she was first admitted to hospital with a lung consolidation and an ambient faint infiltr
te over the left S4 and S6b on the chest radiograph and computed tomographic (CT) scan (fig 1A, D). She had pancytopenia, increased levels of C reactive protein and LDH, a high titre of anti-double strand DNA antibody, and decreased levels of complement titres. Analysis of bronchoalveolar lavage fluid and histopathological examination of transrobional lung biopsy specimens showed an increased number of lymphocytes with a low CD4/CD8 ratio. The presence of neither microorganisms nor granulomas was confirmed. She was discharged because the consolidation was reduced (fig 1B, E). In March 2000 she had another bronchoscopic examination because of deterioration of the consolidation (fig 1C, F) but the results were the same as in 1999. For the purpose of further examination we conducted a partial lung resection. The affected lung tissue histopathologica
sshowed a non-specific inflammatory nodule which consisted of lymphocyte dominant inflammatory cell infiltration, lymph follicle formation, fibrosis, fibrin exudation, a thick
ed alveolar septum, and collapsed alveoli without infectious microorganisms or malign

cells. Removal of the affected lung tissue resulted in improvement in symptoms and abnormal data.

Non-specific inflammatory nodules might occur as a complication of SLE, and a surgical intervention should be considered to diagnose and treat the disease.

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Atypical mycobacterial infection, starvation and effect of BCG vaccination on tuberculin skin test
Wang et al are right when they underline the need to adjust for confounding variables when analysing the results of a tuberculin skin test (TST) survey, but they are oversimplistic when, using surveys done in many countries worldwide, they study only the effect of the BCG vaccination on the TST results. The authors did not discuss the rate of atypical mycobacterial infection in a popula
tion, an important confounding factor that drives up the rate of tuberculous infection, because atypical mycobacteria crossreact with Mycobacterium tuberculosis. Unlike Wang et al, at least one TST survey included in the meta-analysis, done in Kenya, adjusted for the rate of atypical mycobacterial infection. A study performed in the Netherlands on army recruits which double tested for both M tuberculosis and atypical mycobacteria showed that 48% of the reactors with indurations in the range 10–15 mm and 16% with indu
tations ≥10 mm were classified as false positive. There was no interaction between BCG and TST as long as the recruits were not BCG vacci
inated. False positives were then excluded from the latent tuberculosis infection treatment.

Another confounding factor in this meta
analysis is pooling together TST results from surveys performed in populations during the post-war period of starvation with those from developed countries without considering the effect of a low calorie diet on the TST results. Only 3–4 months after BCG vaccination the rate of apparent TST conversion in malnour
ished children may be as low as 23% compared with 85% in well nourished children. The rate of atypical mycobacterial infection might therefore have been confused for the TST positivity due to BCG vaccination, while the effect of BCG vaccination on the rate of TST positivity was underestimated in starving populations.

The author did not need financial support to write this letter and does not have any material interest in the subject.

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Improving surgical resection rates in lung cancer without a two stop service

In 1998 the Papworth Thoracic Oncology Unit published their data from the first year of a two stop clinic. By this means they improved surgical resection rates for patients with non-small cell lung cancer (NSCLC) from 10% to 25%.

We would like to thank Dr Jalba for the thoughtful comments on our paper. As the prevalence of atypical mycobacterial infection was not systematically evaluated in the studies we reviewed, we could not integrate this into our analysis. From a practical point of view both BCG and non-BCG groups are likely to have similar exposures to atypical infection, and clinicians would not be able to assess routinely for such infections. Similarly, information on nutrition was not systematically available but, as a surrogate, we have looked at the equator, this suggests that nutrition is not a significant factor in the sample size we have generated.

References


Publication of complex dataset

In the April 2002 issue of Thorax we published a paper on airway inflammation, basement membrane thickening and bronchial hyperresponsiveness in asthma.1 In this study we examined the effects of 2 months of inhaled corticosteroid therapy on reticular basement membrane thickening in asthmatic airways and how this may influence airway hyperresponsiveness.

Shortly before, at the end of 2001, we also published a paper in the American Journal of Respiratory and Critical Care Medicine2 which dealt with the baseline data on reticular basement membrane thickness for the same group of patients. The analysis dealt with the relationship between reticular basement membrane thickness, fixed airflow limitation, and a novel test of airway distensibility. The existence of the respective papers was made clear to and discussed with the respective editors during each editorial process. The review process was long and exhaustive, continuing over many months. Maintained because of the temporal overlap of the two review processes, the paper in the American journal is not referenced in the Thorax paper.

Because of the increased sensitivity about potential for duplicate publication,3,4 we wish to make clear to the Thorax readership the existence of the two papers from the same study, although the overlap between them is small and explicit, and the analyses contained within each quite distinct. With hindsight, the joint source of these data should have been acknowledged in the published paper.

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Successful treatment of BALT lymphoma with combined chemotherapy

Primary pulmonary lymphoma arising from mucosa- or bronchus-associated lymphoid tissue (MALT lymphoma) is a BALT lymphoma. We report a 30 year old man with low grade B cell BALT lymphoma who presented with a bulky mass in the lung and was treated successfully with cyclophosphamide, doxorubicin, vincristine and prednisone (CHOP) combined chemotherapy.
Obstructive sleep apnoea can directly cause death

A 52 year old woman was referred for investigation of daytime somnolence. She complained of heavy snoring, unrefreshing disturbed sleep, and had fallen asleep while driving. She had an Epworth score of 24/24, a history of hypertension controlled on losartan, had never smoked, and only took occasional alcohol. She had limited mobility as a result of her extreme obesity (168 kg) with a height of 1.58 m (BMI 67.3 kg/m²). Her chest was clinically clear (FEV₁, 1.81, FVC 2.31) and her serum bicarbonatate level was 31 mmol/l, implying a degree of hypercapnea. She had a trace of oedema but no evidence of cardiac failure.

She was admitted 1 month later for a sleep study. Data collection included pulse rate, movement and sound (SSI Visilab). At 04.30 hours the nursing staff found her lying dead across the bed. The oxygen saturation by pulse oximetry was 91% at the start of the night in a sitting position. Good data were obtained for the first 25 minutes of the study, the remaining being highly fragmented with values fluctuating between 90% and the instrument cut off level of 25%. The video showed a repeated but irregular pattern of apnoea, snoring, arousal, sitting up, falling asleep, and lying back into the supine position. From one such apnoea she failed to rouse sufficiently to resume breathing and suffered a cardiorespiratory arrest. Post mortem examination showed some coronary atheroma but, crucially, no occlusion, leading to the conclusion that the death was directly attributable to obstructive sleep apnoea (OSA). Lung, liver and spleen showed some congestion consistent with the post mortem diagnosis of acute cardiorespiratory failure.

The coroner initially expressed concern that the patient was not being directly observed. After discussion it was accepted that a sleep test is not monitoring in the usual sense but is an exercise in data collection performed either in hospital or at home for reasons of organisational convenience. This recorded death directly resulting from OSA in combination with severe obesity is unlikely to be unique and may be unusual only in that it was captured on the video recording. In such extreme cases recognising the component of OSA may be difficult as the oximetry recording is erratic rather than the familiar “saw tooth” waveform. A number of mechanisms associating OSA with increased morbidity and mortality have been proposed, significantly obesity and ventilatory failure and vascular disease. However, this case demonstrates a causal connection. Attributing unexpected deaths to cardiac events rather than to OSA may conceal a number of deaths directly caused by OSA.

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Infections, lymphomas, and metastases are unique causes of Pancoast’s syndrome. The most common aetiological factor is non-small cell lung cancer (NSCLC). Pancoast’s syndrome resulting from metastatic renal cell carcinoma (RCC) has not previously been reported. We present the case of a metastatic Pancoast tumour in the left lung in a patient who had previously undergone resection for RCC.

A 49 year old woman was admitted with a pain in the left shoulder radiating to the arm which had been present for several months, eight years after excision of the left kidney for clear cell RCC. Computed tomographic scans of the chest and abdomen revealed a solitary irregular mass (4.5 cm) in the apical segment of the left lung adhering to the thoracic inlet with no evidence of local recurrence in the abdomen.

Extrapleural resection of the tumour with the apical segment of the lung was performed. Histological examination proved the metastatic origin of the tumour from RCC. Nine months after resection of the metastatic tumour the patient had a relapse in the left thoracic inlet. Residual left upper lobectomy with excision of ribs 1–4 and the infiltrated part of the brachial plexus was performed. Seven months later the patient underwent radiation therapy to the tumour bed and supraclavicular region because of metastases in the scalene nodes (total dose 60 Gy in 27 fractions over 41 days).

Twenty five months after the first metastatic resection the patient’s general condition deteriorated due to dissemination of the disease. Radiological examination showed several new foci in both lungs and a metastatic tumour in the brain. The patient died 31 months after the first thoracotomy and 11 years after nephrectomy.

We conclude that metastatic RCC should be considered as a possible cause of Pancoast’s syndrome. The resection should be as radical as in NSCLC—if necessary involving the adjacent structures—which should have been done in our first operation.

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References

BOOK REVIEW

The Clinician’s Guide to Asthma

This is an easy to read and thorough guide to asthma which covers a wide range of topics from prevalence to treatment, pharmacology to pathology. The text is engaging and interesting. It is well illustrated with numerous pictures and diagrams that enhance its readability. The strength of this book lies in its clarity. Even the chapter on the pathophysiology of asthma can be read and understood by those who feel weak at the very mention of cytokines! It is also a contemporary text and provides a useful insight into emerging ideas and novel treatments in this field. The book is suited to those who wish to obtain a broad overview of the subject and would suit medical and MRCP students, respiratory trainees, and other health professionals involved in the care of the asthmatic patient.

Although the management of the asthmatic patient is covered in detail, this is not a handbook to guide individual patient care but is, instead, a concise and thoughtful review of the disease.

In summary, if asthma is not your primary field of interest and you were asked to give a talk on the subject tomorrow, you would be well advised to hunt out this book.

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CORRECTION

Montelukast and inhaled budesonide in mild to moderate asthma

In the paper entitled “Effect of montelukast added to inhaled budesonide on control of mild to moderate asthma” by M J Vaquerizo et al which appeared in the March issue of Thorax (2003;58:204–11), there is an error in the first sentence of the abstract which should read “Proinflammatory leukotrienes, which are not completely inhibited by inhaled corticosteroids, may contribute to asthmatic problems”. The publishers apologise for this error.
Montelukast and inhaled budesonide in mild to moderate asthma

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