Pulmonary manifestations of systemic lupus erythematosus (SLE) include acute lupus pneumonitis, chronic interstitial pneumonitis, diaphragmatic dysfunction, atelectasis, pulmonary vascular disease, upper airway tis, diaphragmatic dysfunction, atelectasis, pneumonitis, chronic interstitial pneumonia.

Unusual lung consolidation in SLE

A 61 year old woman with SLE had been treated with 10 mg prednisolone every other day since 1990 without deterioration in the lung consolidation devoid of pathogens.

Figure 1

Chest radiograph and CT scan on first admission (A, D), at partial improvement (B, E), and on second admission (C, F) showing deterioration and improvement of a fan shaped patchy shadow on the pleura.

References


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 population, 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 indurations ≥10 mm were classified as false positive. There was no interaction between BCG and TST as long as the recruits were not BCG vaccinated. 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 malnourished 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 their surgical resection rates for patients with non-small cell lung cancer (NSCLC) from 10% to 25%. This paper is quoted as the benchmark for surgical resection in the UK. In 1998 the surgical resection rate for patients with NSCLC in Hammersmith Hospitals Trust was 4.7% (three of 64 patients). In March 2000 we set up rapid access clinics to assess both patients with abnormal chest radiographs and urgent GP referrals. In accordance with the National Service Framework (NSF), 1 multidisciplinary team meetings (MDTM) between respiratory medicine, cardiothoracic surgery, oncology and palliative medicine were established.

From April 2000 inpatients and outpatients with a chest radiograph suspicious for lung cancer were referred directly from radiology to one of two rapid access clinics within the Trust. Local GPs, outpatient departments, and the emergency department also referred patients. There were no tertiary referrals. All patients were given appointments within the 2 week time period required by the NSF. Patients were told they were being investigated for an abnormal radiograph and would need further investigation with a CT scan and may require a bronchoscopy (FOB) and/or fine needle aspiration/biopsy (FNAB). Written information was given at that point regarding CT scanning, FOB, and FNAB. Staging and tissue diagnosis was completed within 2 weeks.

All results were reviewed in the MDTM and management plans were made and recorded. Following the MDTM, patients were reviewed in a joint clinic with the Macmillan nurse and introduced to either the oncologist or the thoracic surgeon. All data on every aspect of the patient’s management were collected prospectively.

From 1 April 2000 to 31 March 2001 194 patients were seen (118 men). In 100 patients cancer was the most likely diagnosis (56 men and 44 women, mean age 67 years, range 26–95). Six patients declined further investigation. 94 (95%) patients had a definite histological diagnosis: 84 primary lung cancers, three secondary lung cancers, two carcinoid tumours, two Hodgkin’s disease, and three mesothelioma.

Of the 84 patients with lung cancer, 14 had small cell carcinoma and 70 had NSCLC. Of the 70 patients with NSCLC, 20 (28.5%) were referred for thoracotomy (11 men, mean age 64 years, range 48–81). Nineteen patients (27% of NSCLC; 23% of the whole cohort) had a successful resection, 17 lobectomies (stages IIa, IB, IIIa, IB and IIIla) and two pneumonectomies (stages IIIb and Ia). One patient (5%) had a failed thoracotomy due to a cardiac event. In five cases (all Ia) the chest radiograph had been taken routinely before another operative procedure and three (Ia and IIIla) were routine outpatient radiographs in asymptomatic patients. There were no postoperative deaths. Two patients (pIIla) subsequently died at 9 and 11 months, respectively. Currently, the 1 year survival rate for the whole cohort of patients with proven lung cancer is 46%.

With no additional resources we have successfully implemented the lung cancer NSF and have significantly improved our surgical resection rates from 4.7% in 1998 to 27% of patients with NSCLC and 23% of our whole lung cancer cohort. This is equivalent to the benchmark series for surgical resection in the UK but, unlike that series, none of our patients were tertiary referrals. 1 Our large increase in resection rate was not due to a more aggressive surgical approach as 80% of the cases were stage IIB or better, and our failed thoracotomy rate of 5% is similar to other series.

We have shown that, without the resources to establish a two stop service we have still established a rapid and effective patient pathway culminating in MDTM and joint clinic. This has produced resection rates considerably better than those previously achieved and a 1 year survival rate that compares very favourably with published UK survival figures. 1

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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 This study was examined the effects over 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 Medicine 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. Therefore, because of the temporal overlap of the two review processes, the paper in the American journal is not referred in the Thorax paper.

Because of the increased sensitivity about potential for duplicate publication, 1,4 we wish to make clear to the Thorax readership that there is a potential for duplicate publication. 4

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References


Successful treatment of BALT lymphoma with combined chemotherapy

Primary pulmonary lymphoma arising from mucosa- or bronchi-associated lymphoid tissue (BALT) is a B-cell lymphoma. 3 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 bicarbonate level was 31 mmol/L, implying a degree of hypercapnia. 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 oximetry, cardiac rate, movement and sound (SSS 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 remainder 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). Lungs, 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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References
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 Vazquez 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.
Publication of complex dataset

E H Walters

Thorax 2003 58: 368
doi: 10.1136/thorax.58.4.368-a

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