LETTERS TO THE EDITOR

If you have a burning desire to respond to a paper published in Thorax, why not make use of our “rapid response” option? Log on to our website (www.thoraxjnl.com), find the paper that interests you, and send your response via email by clicking on the “eLetters” option in the box at the top right hand corner.

Providing it isn’t libellous or obscene, it will be posted within seven days. You can retrieve it by clicking on “read eLetters” on our homepage.

The editors will decide as before whether to also publish it in a future paper issue.

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 consolidation devoid of 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, nonpurulent 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 infiltrate 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 transbronchial 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 histopathologically showed a non-specific inflammatory nodule which consisted of lymphocyte dominant inflammatory cell infiltration, lymph follicle formation, fibrosis, fibrin exudation, a thickened alveolar septum, and collapsed alveoli without infectious microorganisms or malignant 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.

A Nomura, Y Morishita, T Iijima, Y Ishii, H Satoh, T Sakamoto, Y Uchida, T Homma, M Ohtsuka, K Sekizawa
Department of Pulmonary Medicine, Institute of Clinical Medicine, University of Tsukuba, Tsukuba, Ibaraki, Japan

Correspondence to: Dr K Sekizawa, Department of Pulmonary Medicine, Institute of Clinical Medicine, University of Tsukuba, 1-1-1 Tennoudai, Tsukuba, Ibaraki 305-8575, Japan; kyo-se@md.tsukuba.ac.jp

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.

M-S Jalba
Public Health Epidemiologist, New York City Department of Health and Mental Hygiene Tuberculosis Control Program

Correspondence to: Dr M S Jalba, 17–15 Woodbine Street, Apartment 3L, Ridgewood, New York 11385, USA; msjalba@gmail.com

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.
Improving surgical resection rates in lung cancer without a two step 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%.1 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 innocent patients 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 January 2000 to 31 March 2001 194 patients were seen (118 men). In 100 patients cancer was the most likely diagnosis (36 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 Ia, Ib, IIIa, IIB, 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 IIIa) were routine outpatient radiographs in asymptomatic patients. There were no postoperative deaths. Two patients (pIIia) 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 subsequently 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.3

We have shown, without the resources to establish a two step 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.4

E F Bowen, J R Anderson, M E Roddie
Hammersmith & Charing Cross Hospitals NHS Trust, Du Cane Road, London W12 0HN, UK
robowen@hhnt.org

References

Successful treatment of BALT lymphoma with combined chemotherapy

Primary pulmonary lymphoma arising from mucosa- or bronchi-associated lymphoid tissue (BALT lymphoma) is a MALT 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 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, 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 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. Postmortem 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.

S Pearce
University Hospital of North Durham, Durham DH1 5TW, UK; sarah.pearce@ndhcnt.northy.nhs.uk

P Sounders
Regional Medical Physics Department, University Hospital of North Durham, Durham DH1 5TW, UK

References
Pancoast’s syndrome as a result of metastatic renal cell carcinoma

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.

T W Marjanski, W Rzyman, J Skokowski
Thoracic Surgery Department, Medical University of Gdansk, Poland, wzryman@amg.gda.pl

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.

C M Richardson
Department of Respiratory Medicine, Glenfield Hospital, Groby Road, Leicester LE3 9QP, UK; catherine.richardson@tyne007.freeserve.co.uk
Atypical mycobacterial infection, starvation and effect of BCG vaccination on tuberculin skin test
M-S Jalba

Thorax 2003 58: 367-368
doi: 10.1136/thorax.58.4.367-a

Updated information and services can be found at:
http://thorax.bmj.com/content/58/4/367.2

These include:

References
This article cites 5 articles, 1 of which you can access for free at:
http://thorax.bmj.com/content/58/4/367.2#BIBL

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

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/