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


References


Unusual lung consolidation in SLE

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A 61 year old woman with SLE had been treated with 10 mg prednisolone every other day since 1990 without deterioration in the lungs and connective tissue diseases. In: Murray JF, Nadel JA, eds. Textbook of respirato...
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 (36 men and 44 women, mean age 67 years, range 26–95). Six patients declined further investigation. 94 (95%) patients had a finite historical 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, IIa, and IIIa) and two pneumonectomies (stages IIb and IIIa). 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 routinely outpatient radiographs in asymptomatic patients. There were no postoperative deaths. Two patients (IIla) 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.2

We have shown, 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.5

Successful treatment of BALT lymphoma with combined chemotherapy

Primary pulmonary lymphoma arising from mucosa- or bronchus-associated lymphoid tissue (BALT) is a B-cell lymphoma that 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.

References

Publication of complex dataset

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

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. Mainly 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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References

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

Authors’ reply

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 an important consideration. On the basis that malnutrition would adversely affect outcome, we have included a note of caution. We also agree that nutrition is an important consideration and future research should be aimed at assessing the impact of nutrition and clinicians would not be able to assess both BCG and non-BCG groups are likely to have similar exposures to atypical infection.

References

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Successful treatment of BALT lymphoma with combined chemotherapy

Primary pulmonary lymphoma arising from mucosa- or bronchus-associated lymphoid tissue (BALT) is a B-cell lymphoma that 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.

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The patient was admitted with a dry cough, shortness of breath, back pain, and progressive infiltrates on chest radiographs. He had no history of risks for BALTI lymphoma. No rash or lymphadenopathy or organomegaly was detected. A CT scan of the chest showed a right mid lung bulky mass with a diameter of 10.9 × 10.6 cm and infiltrations in both lung fields (fig 1). A transbronchial biopsy specimen was compatible with low grade (B cell lymphoplasmacytoid type) lymphoma. Immunohistochemical examination showed a monoclonal membrane surface κ light chain positive. The patient underwent combined chemotherapy (CHOP), which was repeated every 3 weeks. He tolerated the treatment without difficulty, his symptoms improved, and CT scans after completion of six courses of treatment showed a marked reduction in the lesions in both lung fields (fig 2).

BALTI lymphoma shows an indolent course and remains localised for a prolonged period of time, with systemic dissemination occurring late in the clinical course. Recommended treatment options include complete surgical resection, radiotherapy, or chemotherapy. The role of surgery in the management of primary lymphoma of the lung is twofold: (1) to obtain diagnostic tissue and (2) to obtain a therapeutic resection. In our case we used combined chemotherapy because surgical intervention is of limited use in patients with a large non-resectable lesion or bilateral lung disease.

We conclude that, in patients with a large or bilateral pulmonary BALTI lymphoma, transbronchial or transbronchial biopsy and mediastinoscopy are useful diagnostic procedures for obtaining a definitive diagnosis and treatment with combined chemotherapy should be considered.

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, 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 (FEV 1, 1.81, FVC 2.3) 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 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. 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 postmortem 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


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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.

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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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Unusual lung consolidation in SLE

A Nomura, Y Morishita, T Iijima, Y Ishii, H Satoh, T Sakamoto, Y Uchida, T Homma, M Ohtsuka and K Sekizawa

Thorax 2003 58: 367
doi: 10.1136/thorax.58.4.367

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