to differentiate from acute myocardial ischaemia) and non-specific T wave changes. Low ECG voltages suggest a pericardial effusion. A chest x-ray will identify pleuropericardial disease and allow assessment of cardiac size. An expanding cardiac silhouette on serial chest x-rays may indicate a developing effusion. Two-dimensional echocardiography is non-invasive, identifies pericardial effusions, assesses for cardiac tamponade, and acts as a guide for pericardiocentesis.

Untreated pneumococcal pericarditis complicated by septicaemic shock is invariably fatal. Out of hospital asystolic cardiopulmonary arrest also has a poor prognosis, with an overall survival to discharge of about 2%.

Published reports on the treatment of pneumococcal pericarditis are based upon case reports, small series, and review articles rather than on randomised trials. However, early diagnosis of purulent pneumococcal pericarditis with prompt aggressive treatment significantly reduces mortality. Cardiac tamponade is not unusual and can occur despite prolonged antibiotic treatment or even if the site of primary infection has been controlled. In this circumstance, pericardiocentesis is not only diagnostic but life saving too. Effective drainage of the pericardium (and empyema if present) in conjunction with high dose intravenous antibiotics offers the best results. The majority of published reports support open pericardial drainage, arguing that pericardiocentesis alone risks recurrent tamponade. However, there are isolated case reports of successful outcome from antibiotics accompanied by pericardial catheter drainage with repeated aspiration. Some argue that pericardiectomy avoids contraindicative pericarditis, while others regard this as controversial. The installation of antibiotics within the pericardial sac is unnecessary, as therapeutic levels are achieved with systemic treatment. General supportive measures are often required to overcome the complications of systemic sepsis and myocardial dysfunction resulting from an associated subepicardial myocarditis.

CONCLUSIONS

Purulent pericarditis is a rare complication of untreated pneumococcal sepsis. It is an acute disease with a fulminating course which often remains undiagnosed during life. The potential for a good outcome depends upon awareness and a high index of suspicion, allowing early diagnosis and aggressive treatment.


Conversion disorder presenting as a head injury

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Abstract

A case of a conversion disorder which presented as a head injury is described. This is a rare problem and by definition a diagnosis of exclusion.

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Keywords: conversion disorder; head injury

Case report

A 35 year old female presented to the accident and emergency (A&E) department after a car boot lid had fallen onto her occiput. There had been no loss of consciousness. When seen she had an intermittent stutter but there was no detectable neurological abnormality. She was discharged home with an appropriate advice sheet.

Two days later she consulted her general practitioner complaining of an unsteady gait and speech difficulties and was referred directly for a skull x-ray. This showed no abnormality but the radiographer was concerned by
her behaviour and brought her back to the A&E department for review.

When she was examined at that time there was no external evidence of any head injury and her Glasgow coma scale score was 15. She had staccato speech, a marked tremor of her left side, a left facial tic, and some left sided weakness. Her gait did not fit any recognised pattern but after only two or three steps she would stagger and collapse. There were no eye signs and at times it was possible to distract her.

She was admitted to the A&E ward for observation and had computerised tomography of the brain and routine blood tests, none of which showed any abnormality. Over the next two to three days it was noted that her symptoms fluctuated. Because there was some concern that this might be an unusual presentation of demyelination, she also had magnetic resonance imaging of the brain, which was normal.

Further questioning revealed that she had been seen in 1992 for temporomandibular joint pain which was ultimately diagnosed as stress related and responded to antidepressants. She had subsequently discontinued taking these. She had five children and her husband was about to change his job for the third time that year. There were considerable financial worries at home.

Both of her parents had died, one from a cerebrovascular accident and one from a brain tumour, and her brother had died from leukaemia.

When the tests had been completed we explained that we had been unable to identify an organic cause for her symptoms and that we felt her symptoms were stress related. This discussion led to an almost immediate improvement. She was referred for a psychiatric opinion which concurred with ours, and outpatient follow up was arranged.

Discussion

Conversion disorder is defined as "an alteration or loss of physical function that suggests a physical disorder but is apparently an expression of a psychological conflict or need." It is a diagnosis of exclusion, rarely reached in an A&E department. The concept of hysterical conversion is not new—Freud adopted the term "hysterical conversion" in 1894, but similar terminology was used nearly a century earlier by Ferriar.

More recently hysteria has been a topic of much debate. In a letter to the British Journal of Psychiatry Wiseman devised a mnemonic as a teaching tool for conversion disorders:

- C = Conscious control lacking
- O = Organic aetiology unproven
- N = Neurological symptoms prevalent
- V = Verisimilitude to physical illness
- E = (a)Etiologically
- R = Related to
- S = Stressor
- I = Indifference may occur
- Q = Organic sequelae possible
- N = Not culturally sanctioned.

Engel estimated that between 20% and 25% of people will have a conversion disorder at some time in their life, and that the incidence of the disorder on psychiatric wards is between 5% and 16%. It is not a diagnosis often reached in A&E. In an American study of patients with conversion disorder presenting to an emergency department over a 10 year period, 38 out of 42 (90%) had neurological symptoms. There was a high incidence of other illness present, and the majority had a previous psychiatric history. Folks et al reviewed 62 patients who left hospital with a diagnosis of conversion disorder and found that 18 had a psychiatric disorder and two reported recent head trauma.

It is important to emphasise that there is a myriad of organic diseases which must be excluded before this diagnosis is reached. These include electrolyte disturbances, hypoglycaemia, neoplasms, systemic or occult infections, toxins or poisoning, and demyelination.

Conclusion

Conversion disorder is not a diagnosis often made in A&E. This case illustrates one way in which it may present and the steps that led to the diagnosis.

2 Ferriar J. Medical histories and reflections. 1795.
Conversion disorder presenting as a head injury.

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