A confused drug addict: the importance of considering sepsis

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Abstract
The case is reported of a 35 year old heroin addict presenting with acute confusion which was later found to be due to meningococcal meningitis. Other than his altered mental state, the only abnormal finding on examination was a mild pyrexia.


Key terms: sepsis; heroin addiction; acute confusion

Case report
A 35 year old male who is a registered heroin addict was brought by ambulance to the accident and emergency (A&E) department at 11 pm, accompanied by his girlfriend, who had found him in an aggressive and confused state. He was on a methadone replacement programme and had taken his normal dose of methadone in the morning, together with a small dose of intravenous heroin. He subsequently went to college and returned at midday complaining of a mild headache. His girlfriend then left him alone and returned in the evening to find that the room had been smashed up and the patient was acutely disturbed, violent, and aggressive.

On examination in the A&E department, he was alert but disorientated in both time and space and was aggressive and uncooperative. General physical examination was unremarkable apart from the presence of a mild pyrexia of 37.5°C; there was no focal neurological deficit, no neck stiffness, and no rash. Vena-puncture was difficult because of his intravenous drug abuse and aggressive state. Eventually a small sample was obtained which was sent for a full blood count. This showed a haemoglobin concentration of 16.4 g/litre and a white count of 28.8 × 10^9/litre, with 89% neutrophils. A diagnosis of toxic confusional state secondary to infection was made and he was admitted for further investigation, including computerised tomography brain scan and lumbar puncture. Because of continued agitation he required sedation and ventilation. Neisseria meningitidis was subsequently grown from his blood cultures and CSF samples. Tests for HIV were negative. His inpatient stay was protracted and complicated by broncho-
Pneumonia and rhabdomyolysis and he was discharged after three weeks.

Discussion
This case illustrates some of the problems faced in the A&E department with the management of the confused uncooperative patient. A good history is not always available and full examination, in particular neurological assessment, may be very difficult. Even simple investigations present practical difficulties. In this case venepuncture presented additional difficulties because of the patient’s intravenous drug abuse, and for further investigations he had to be sedated.

It is well recognised that “drunk” patients with head injuries are difficult to assess. This case shows that equal care must be taken when assessing the drug addict with confusion. The confusion must not be attributed to the effects of drugs until a full differential diagnoses has been considered. This must include infection, metabolic causes, subarachnoid haemorrhage, and head injury. Other than his altered mental status, the only abnormal examination finding was mild pyrexia. Any degree of pyrexia in the confused patient should be regarded as an absolute indication for urgent investigation, regardless of the difficulties associated with venepuncture and other procedures.

Perilunate fracture-dislocation: a continually missed injury

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Abstract
Five cases of perilunate fracture-dislocation are presented in which the radiological appearances were typical but the diagnoses were initially missed. A simple systematic method of x ray analysis is described.


Key terms: perilunate dislocation; missed diagnosis; x ray interpretation

Perilunate dislocations and fracture dislocations are uncommon injuries, but the x ray appearances are usually characteristic. Nevertheless they continue to be missed by both accident and emergency (A&E) and orthopaedic staff, and delay in diagnosis may be accompanied by the development of carpal tunnel syndrome and the need for surgical rather than conservative management. This delay may also predispose to long term sequelae from median nerve damage and carpal instability. We present five cases in which the radiological appearances were typical but the diagnoses were initially missed and describe a simple systematic method of x ray analysis to avoid future misinterpretation.

Case reports

CASE 1
A 32 year old left handed mechanic fell from his motorbike while returning from holiday in Holland. He sustained a hyperextension injury to his left wrist and attended the local hospital where x rays were taken and he was told that he simply had a “chipped bone”. He was supplied with a sling but during the cross-channel journey home his hand became increasingly painful and he developed numbness in his left thumb, index, and middle fingers. Following disembarkation he attended the nearest A&E department but again received the same instructions. On his return home he attended his local A&E department, now 48 hours from the time of the injury. His wrist was very swollen and painful and he had loss of sensation in the median nerve distribution. Review of the initial x rays (fig 1) showed obvious trans-styloid perilunate dislocation, and he was managed by open reduction and K-wire stabilisation through a volar approach, to allow decompression of the