POLYNEURITIS IN HAEMOCHROMATOSIS

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Case Report
A male taxi-driver, aged forty-seven, was admitted to the Dorset County Hospital on 7.9.60. He was a diabetic of five years standing on 180 g. of carbohydrate and 80 units of lente insulin daily. Following an attack of diarrhoea and vomiting he gave a five days' history of increasing weakness in the legs.

Examination. He was thin, slightly icteric, with sparse axillary and pubic hair, small atrophic testes and multiple pigmented needle-track marks on the lower abdomen and thighs. The liver was large and hard, and the spleen just palpable. He had a flaccid weakness of both legs with tender muscles and absent knee and ankle jerks. This subsequently developed into a frank paraplegia. There were no sensory changes during the early stages.

Investigations. Blood count: Hb 88%, MCHC 36%, PCV 36 mm., ESR 12 mm. (Wintrobe). Icteric Index 20 units, wbc 12,900 (neutrophils 75%, monocytes 9%, lymphocytes 16%, marked toxic changes in the neutrophils). Prothrombin time 50% of normal. The blood culture grew E. Coli.

The serum iron was 440 µg./100 ml., the S.G.P.T. was 372 units, and the serum bilirubin 2.9 mg./100 ml. (direct 1.3 mg./100 ml.). The total protein was 5.7 g./100 ml. of which the albumin was markedly decreased and the alpha-2 and gamma globulin increased. The CSF was slightly xanthrochromic; there were 34 wbcs (mainly polymorphonuclears), and the protein was 150 mg./100 ml. A diagnosis of haemochromatosis and acute polyneuritis was made.

Progress and Treatment. His temperature rose to 102.5°F and his pulse to 150/min. and there were signs of early meningitis. He was treated with prednisolone in high dosage, chloramphenicol and later tetracycline. His condition deteriorated, and he died on 24.9.60.

Autopsy Report. There were bilateral pleural effusions. The liver was enlarged and weighed 1,652 g.; it was very firm and showed irregular cirrhosis; there were one or two small abscesses. The spleen was enlarged, weighing 364 g. It was firm, and on section showed decreased prominence of the follicles. The pancreas was firm and slate-grey in colour. There was a turbid ascites present. Histology showed heavy deposits of iron in the cardiac muscle and slight deposition in the zona glomerulosa of the adrenal cortex, the pars anterior of the pituitary gland and in the dermis at the site of previous insulin injections. There was no histological abnormality found in the spinal cord, but the peripheral nerves were not examined. The pathologist's cause of death was:

(i) heart failure,
(ii) E. coli septicemia,
(iii) haemochromatosis.

Comment
A striking sign which we have not seen reported elsewhere was the pigmentation along the injection tracks. The rapid progression of the polyneuritis was quite unlike that normally met with in diabetic neuropathy. After reading Melnick and Whitfield's paper (1962) we feel that there is a possibility of a direct link between the polyneuritis and the haemochromatosis.

REFERENCE

CONGENITAL PENILE SINUS

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A VENTRAL mid-line sinus of the penis is an unusual condition resulting, possibly, from a failure of fusion of the urethral crests. It is related to the more commonly occurring mid-line congenital cyst and nearly 50 examples of these two anomalies have been reported to date (Thompson, 1959).

Case Report
A 43-year-old circumcised man sought advice about two superficial sore lesions on the under surface of his penis and scrotum. These had been present for two weeks and had discharged a small quantity of pus. Seven years previously he had noticed a pore on his penis from which it was possible to express a chalky material. At this time his doctor had incised a superficial infective lesion close by this orifice. On examining the penis and scrotum (Figs. 1 and 2) there were two mid-line infected lesions, one being at the peno-scrotal junction and the other 5 cm. posterior to it. In addition there were two sinuses, one, 2 cm. in length, extended along the proximal third of the shaft of the penis from an orifice situated in
Discussion

The existence of ventral mid-line peno-scrotal cysts and sinuses is embryologically determined. The urethra, apart from the balanitic portion, is formed in endoderm derived from the epithelium lining the urogenital sinus. The endodermal core of cells is enclosed beneath the skin surface of the phallus by the fusion over it of the urethral crests.

This leaves a mid-line and persistent ventral raphe, which extends from the frenum of the penis to just in front of the anus. The balanitic portion of the urethra is formed by a downgrowth of ectodermal cells from the urethral plate (Glenister, 1958). It has been suggested that incomplete closure of the urethral crests may result in ectodermal cells being left deep to the skin surface and these later produce a cyst or a sinus. A second theory is that after the fusion of the urethral crest is complete outgrowths of embryonic epithelium split off and later canalize.

It is interesting to note that the majority of cases reported in detail have not presented until between the ages of 20 and 30, although there are exceptions. Neff (1936) reported a sinus in a 13-year-old boy, which became infected, and also a cyst in a man of 68 which had remained unchanged since boyhood. Commonly a patient with this anomaly will first consult the venereologist and although it is usually only involved by non-venereal types of infection it is well to remember that it may in fact harbour a gonococcus (Rupel, 1924).

The diagnosis may usually be made by inspection...
PNEUMOCOCCAL MENINGO-ENCEPHALITIS

An Unusual Case

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Pneumococcal meningitis has always a poor prognosis. This particular case is interesting for two reasons: firstly, although it seemed at one time that recovery would be very limited, in fact it was remarkably complete; and secondly, there were, during the latter part of the illness, some unusual neurological features.

Case Report

The patient, a male aged 40 years, was admitted on January 11, 1962. There was no history of skull trauma. About two weeks prior to admission he had had a mild respiratory illness for which his general practitioner prescribed oxytetracycline. Recovery was satisfactory, but he had not yet returned to work, when on January 11, he became suddenly fevered and confused and complained of intense headache.

On Admission. The patient was confused and drowsy. Temperature 98.8°F., rising rapidly to 103°F, pulse rate 80/min., B.P. 100/70 mm. Hg. Cardio-vascular system, lung fields and ear drums normal.

CNS: marked meningeal irritation with moderate dysphasia, particularly manifest as spoonerisms. Normal optic fundi and pupils. Left-sided facial weakness of supranuclear type. Tendon reflexes and plantar responses normal.

CSF: increased pressure, positive Pandy reaction, cells 325/cu. mm., mainly polys.; protein 130 mg.; sugar 70 mg., chloride 630 mg./100 ml.; there were abundant encapsulated Gram-positive diplococci, mainly extracellular, which were confirmed on culture as being pneumococci, sensitive to all routine antibiotics.

A diagnosis of pneumococcal meningitis was made and treatment begun with benzylpenicillin, (20,000 U. intrathecally daily), t megaunit 4-hourly i.m.) and sulphathiazole (1.5 g. then 1 g. 4-hourly i.m.).
Congenital Penile Sinus

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