Lymphangiography has been used previously to show the extent of retroperitoneal tuberculous lymphadenitis (Babeau & Fournier, 1965). The foamy appearance shown in their cases was similar to that in Case 2 and to that in another case of retro-peritoneal tuberculous lymphadenitis without abscess formation seen at Westminster Hospital.

Lymphangiography was found invaluable in Case 2 above, both in confirming the origin of the infection and in assessing progress to treatment. The lipiodol is cleared sufficiently slowly from the nodes, which are otherwise difficult to assess, to be useful in monitoring the response to treatment for up to a year. If the lipiodol is cleared too soon, the endolymphatic injection can be repeated.

The single most valuable study in the diagnosis of retroperitoneal tuberculosis was cited by Mitty & Faegenburg (1964) to be intravenous urography, but although this investigation is still of value, perhaps pride of place should now be given to lymphangiography.

Although experience is limited at present, the 'foamy' radiological appearances of the nodes seem indistinguishable from those in various reticules, so bacteriological or histological confirmation of tuberculosis is advisable.

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References


Massive oedema and ascites during treatment with anti-depressant drugs

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The occasional occurrence of dramatic side-effects in patients taking anti-depressant drugs, particularly the monoamine oxidase inhibitors, as well as the interaction of these with other drugs and with foodstuffs, have been the subject of much interest and concern. Although oedema of the ankles has been noted by several workers in patients on isocarboxazid ('Marplan') (Azima et al., 1959; Griffith, 1960; Mock, Panero & Robinson, 1961) on amitriptyline ('Tryptizol') (Weiss & Pressman, 1961) and also where combined anti-depressant drug therapy has been employed (Gander, 1965), the development of massive oedema would appear to be unrecorded. For this reason the following case is reported.

Case report

Mrs A.G., a housewife aged 64, was attending the Psychiatric Out Patient Department because of symptoms of anxiety and depression. On 7 March 1967 she was started on diazepam ('Valium') and protriptyline ('Concodrin'), following which there was minimal improvement and there were no apparent side-effects. On 31 August 1967 her drug regime was changed to isocarboxazid 10 mg t.d.s., amitriptyline 25 mg t.d.s. and diazepam 20 mg nocte.
About 4 weeks after this she became aware of increasing swelling of the legs and, subsequently, of the arms and abdomen. She had gained 42 lb (18.9 kg) in weight up to the time of admission, on 14 November 1967.

**On examination:** she exhibited generalized pitting oedema, including face, arms and trunk, with gross, painful oedema of the legs. Ascites was detectable. There were no other abnormalities; in particular, the neck veins were not raised and there was no evidence of heart disease. Blood pressure was 130/80 mmHg.

**Investigations:** Hb 13.4 g/100 ml; PCV 36%; WBC 3400/mm³; platelets, normal; ESR 15 mm/hr; MSU, normal; 24-hr urine for protein, nil; electrolytes, normal; blood urea, 35 mg/100 ml; creatinine clearance, 74 ml/min; liver function tests, normal; plasma proteins and electrophoresis, normal; ECG, normal. Chest X-ray, compared with 9 months previously, when the X-ray had been normal, showed minimal cardiac enlargement and fullness of the pulmonary vasculature.

**Progress**

She was taken off all the drugs and given diuretics, following which the oedema and ascites subsided satisfactorily and the chest X-ray returned to normal. Subsequently, diuretics were withdrawn and there was no recurrence of the oedema. It was not considered justified to see whether the oedema recurred if the drugs were re-introduced. However, intradermal testing with solutions of the drugs in question revealed a striking sensitivity to isocarboxazid, a weal developing rapidly after injection, there being marked residual local oedema. No adverse skin reactions to the preparation of isocarboxazid were noted in control subjects. She remains well, without drugs, and has been discharged from the Psychiatric Out Patient Clinic.

**Discussion**

A case of massive generalized oedema in a patient taking the monoamine oxidase inhibitor isocarboxazid, together with amitriptyline and diazepam is reported. In the absence of any concurrent disease to account for this and the recovery following withdrawal of the drugs and a short course of diuretics, it is concluded that this represented a side-effect of the drug regimen. It is known that the iminodibenzyl derivatives, such as amitriptyline, may potentiate the monoamine oxidase inhibitors following overdose and even in therapeutic doses, leading to serious reactions, including hyperpyrexia, convulsions and coma (Jarecki, 1963; Sjöqvist, 1965). The mechanism by which such potentiation could lead to fluid retention would appear to be obscure and the skin test in this case suggests rather that the oedema may have occurred as a sensitivity reaction to isocarboxazid.

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