suggest that we dry our hands properly before applying gloves, forget about the extra powder, and starch granulomatous of the porcine evidence, as a become a disappearing disease.—I am, etc.,

Geoffrey Hyman

Halifax

Deglycyrrhizinated Liquorice in Duodenal Ulcer

Sir,—We read with considerable interest the results of the multicentre trial on the treatment of duodenal ulcer with glycyrrhizinic acid-reduced liquorice (28 August, p. 501). No beneficial effect on the course of an acute relapse of chronic duodenal ulcer could be attributed to the liquorice preparation. It is now undisputed that deglycyrrhizinated liquorice accelerates the healing of gastric ulcer,1,2 but its mode of action is unknown.

We have recently studied the effect of this drug on gastric secretion. Twelve male patients with proved duodenal ulcer were given deglycyrrhizinated liquorice (Cedona) in a dose of 760 mg t.i.d. for a period of 4 weeks. Maximal gastric acid output using pentagastrin as the stimulus was measured before and after treatment. Acid levels before treatment were compatible with those found in duodenal ulcer: no significant change was detected in the corresponding levels after the seven-day period.

Though this was a short-term trial, there was clearly no evidence of any immediate effect on gastric acid secretion. The acceleration in healing of gastric ulcers in the presence of deglycyrrhizinated liquorice implies a prompt pharmacological action. It is therefore unlikely that any change in gastric acid secretion can account for the ulcereating properties of this liquorice preparation.—We are, etc.,

B. Whiting
T. J. Thomson

Department of Materia Medica,
University of Glasgow,
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Treatments of Opium Addiction

Sir,—I was interested to read Dr. C. L. Anand's letter (11 September, p. 640) describing the use of an extract of green oats (Avena sativa) in the treatment of opium addiction. This form of therapy is known by doctors practising homoeopathy and was described almost 70 years ago in Clarke's Materia Medica.1 There it states "Avena has been used empirically in substantial doses (5 to 15 drops of the tincture, preferably in hot water) in a large number of cases of nerve weakness. . . . It is most valuable in enabling a patient to overcome the morphine habit. It appears to exert the same kind of soothing action, without creating a habit of its own. When not more than four grains of morphine have been taken daily it may be discontinued abruptly, 15 drops of Avena in a wineglass of hot water being given four times a day instead. The only symptom that has been observed to be caused by it is a pain at the back of the brain from 20-drop doses."

In the 1962 edition of Clarke there is an addition "An alkaloid, Avenin (C₃,H₆,NO₂), has been isolated from oats. It is easily soluble in alcohol. No clinical observations with this have been recorded."

The same treatment is mentioned in Boericke in his Materia Medica,1 and he states it is best used in material doses, and among other indications for the drug lists alcoholism and insomnia in alcoholics. —I am, etc.,

R. A. F. Jack

Boomsorg ero, Warsz


Maternal Oestrogen Levels During Penicillin Treatment

Sir,—Corticosteroids1 and ampicillin2 are found to decrease the oestrogen excretion in pregnant women. Because different penicillins are widely used during pregnancy and the estimation of urinary oestrogens as a measure of the welfare of the foetal placental unit is used increasingly, we studied the effect of phenoxymethylpenicillin in a dose of 653 mg orally every 8 hours on the urinary3 and plasma2 oestrogens in six mothers 38-40 weeks pregnant. The results can be seen in the Table.

There was a relative decrease of urinary oestrogen excretion of 32% during the second and third day of penicillin treatment (< 0.001); plasma oestriol decreased 48% (p < 0.001). In an earlier study,1 we found that ampicillin also decreased both the plasma and oestrogen excretion during pregnancy, and that ampicillin did not produce any chemical reaction which would affect the determination methods. Therefore, one can assume that phenoxymethylpenicillin decreases the production of oestrogens in the foetal-placental unit or causes changes in placental permeability to oestrogen. This phenomenon seems to be bound in the penicillanic unit itself, because ampicillin and phenoxymethylpenicillin have the same effect. Decreased oestrogen excretion was not observed to cause any harm to the fetus or delivery. Thus, when determining urinary oestrogens, it would be wise to ask the patient whether she has recently been on penicillin.—We are, etc.,

Martin Pulkinnen
K. Willman

Department of Obstetrics and Gynaecology and Clinical Chemistry, University of Turku,
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with all other hospital departments. His specialty would be as "consultant in accident medicine."

May we suggest that those colleges and associations closely concerned be asked to examine this possible solution to what has been for a long time a major problem in the National Health Service.—We are, etc.,

D. W. Bracey
R. E. Loder

Peterborough District Hospital,
Peterborough

Sir,—The function of accident and emergency departments has not been clearly defined. I believe it is wishful thinking to assume that we can change the character of the work, although it is likely that more career grade medical officers in post that the number of cases more suitable for general practitioner or outpatient department care would decrease.

The role of the department should be diagnosis and assignment to the correct speciality, only routine cases being retained. Because of the wide range of the work the doctor in the casualty officer's seat should not be a specialist, but someone of wide general experience. It is the quality of the department in this respect that is of the utmost importance. The skills and not the consultant in administrative charge that will largely determine the quality of service. To