led to both feet regaining a normal appearance, and to the complete healing of all the areas of gangrene.

I have given doses up to 400 mg. at a time (100 mg. in 1 ml.), but there appears to be no reaction whether using more than 25 mg. at a time. I use this routinely now, mixed with some 6 ml. of 1% lidocaine. Injections may be given daily or less often. There is probably no advantage in giving more than one injection daily. Pain down the leg at the time of injection is considerable but not intolerable, and is lessened by giving the injection slowly. If given slowly only minimal effects are carried back to heart and lungs, and no bradycardia or bronchospasm of any severity occurs. Slow injection is important, since cardiac arrest can occur with rapid injection. It is, of course, vital to avoid injection of acetylcholine into the femoral vein, and to be certain that the artery has been entered it is advisable to use a syringe with a freely moving plunger so that the blood from the artery enters readily. A disposable syringe has a plunger which is too stiff in its movement to be forced outward by arterial pressure, and this type of syringe is unsuitable. I use one with a fixed hub.

It is presumed that acetylcholine is beneficial through improving the collateral circulation in the affected limb. This may be in part due to vasodilator effect, but in view of the apparent permanence of improvement it might be conjectured that some local or spinal vasconstrictor reflexes, possibly arising in the diseased main vessel, are inhibited and removed and do not recur.

No ill effects have been observed from this therapy, and it is hoped that others may see fit to give it a trial. It is, of course, a matter of common sense to vary the point at which the artery is punctured.—I am, etc.,

R. J. T. WOODLAND.

Paignton, Devon.

Hypnosis for Asthma

Sir,—The report "Hypnosis for Asthma—a Controlled Trial" (12 October, p. 71) and subsequent correspondence raise a point of very great significance. Dr. B. J. Fradin (2 November, p. 329)—and also Dr. R. J. Walden (14 December, p. 706) by implication—asks "What value can be placed on a patient's personal assessment of his wheezing when under the influence of post-hypnotic suggestion?" It was only an aspect of this kind that gave any clear indication of the therapeutic superiority of hypnosis over the control method. In drug trials the patient's own statement of how he feels may be the most valuable criterion of the effect of treatment. Its essential subjectivity presents no problem in properly designed double-blind trials.

In the present case, however, the situation is more difficult because the therapy itself is likely to persuade the patient to say he is better. The situation is akin to a drug trial in which the therapist gives to the treated patient, but not to the control patient, strong suggestions that he will get better.

On the other hand, the patient who feels well is better off than the patient who feels ill, and, as Dr. G. P. Maher-Loughnan (30 November, p. 583) has pointed out in reply, the patient's P.E.F. and V.C. measured once a month may be poor indices of either initial impairment or subsequent progress. When reliable direct observation is impossible there is nothing for it but to use the patients as observers of themselves, but the investigator must realize that his observers may be biased. If necessary he must eliminate the bias or make due allowance for it. The "Hypnosis for Asthma" investigation was rightly criticized by Dr. Freedman for failing to do this.

In most illnesses, that which can be directly observed is but a small part of the whole constellation of events that constitute the illness. The doctor is therefore obliged to rely on information obtained by verbal communication with the patient. Psychologists already know quite a lot about the biases affecting such communication. While it is generally impossible to eliminate these distortions entirely, they can be minimized, and sometimes measured, by adopting appropriate methods. Much more research is needed into these problems, so that better methods of communication between doctor and patient can be devised.

In the meantime we must ensure that all the currently available knowledge is brought to bear upon choosing the most suitable method for each type of inquiry.—I am, etc.,

J. G. INGHAM.

Management of Depression

Sir,—In the article (7 December, p. 627) on the management of senile psychiatric disorders by Dr. Felix Post, no mention is made of the new tricyclic antidepressant ipronid.

A group of 12 patients in my practice were treated with this drug for four weeks. Each was suffering from a depression of endogenous or of reactive origin. The Max Hamilton Rating Scale was used to measure the initial and final degrees of depression, with a dosage of 30 mg. t.d.s. In the final assessment, with an average initial score of 20 and an average score of 7.3, the patients' cases were much improved. Four cases were improved, in two cases there was no change, and two cases were worse. Side-effects were observed in one patient only and consisted of increased agitation, nausea, and weakness in the legs. The frequency of atropine-like side-effects as occurring with other antidepressants was not noted and generally speaking the response was gradual and sustained.

Professor L. G. Kiloh (28 December, p. 813) states that a high proportion of patients do not take their tablets. Consequently an antidepressant drug with a significant reduction in side-effects would be a welcome addition to the therapeutic armamentarium.—I am, etc.,

D. WAXMAN.

London W.1.

Inhibition of Lactation

Sir,—The results of three of the four early trials of quinestrol analysed at the colloquium on quinestrol (Estrovis) in 1966 have been recently discussed in your columns (21 December, p. 769; and 17 January, p. 184). As there is some discrepancy between them, the results of the fourth trial performed at the same time by me at St. George's Hospital furnish further relevant information. In this, a double-blind trial was performed comparing a single oral placebo with single 0.8-mg. oral dose of quinestrol and an intra-muscular injection of 45 mg. hexoestrol plus placebo capsule. The treatment in each case was given within two hours of delivery, usually before the patient left the labour ward. Fifty patients were randomly selected into each of the three groups. The results are shown in the Table:

<table>
<thead>
<tr>
<th>Drug</th>
<th>No.</th>
<th>Excellent</th>
<th>Fair</th>
<th>Poor</th>
<th>Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Placebo only</td>
<td>50</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>48</td>
</tr>
<tr>
<td>Hexoestrol Quinestrol (2 mg)</td>
<td>50</td>
<td>17 (34%)</td>
<td>6</td>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td>(50%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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Table: