impending danger. This monitor consists of a spring piston that slides along a rod within the body of the instrument and moves an indicator along an arbitrary scale. In order to keep the cost down and make it semi-disposable no calibration has been attempted, but clinical trials have shown the readings to be reproducible and may be related to spirometric measurements initially.¹

Readings are made several times a day by the patient and are a most useful adjunct to the control of therapy when seen by the doctor during consultation. Also it soon becomes possible to establish a danger point below which help should be sought. The monitors are manufactured by Vitalograph Limited.

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¹ Haydu, S P, Chapman, T T, and Hughes, D T D, *Lancet*, 1976, 2, 1225.

Aerosol corticosteroids and deaths from asthma

SIR,—We consider Dr H Morrow Brown's letter (28 May, p 1408) to be timely and we agree with him that the opinion expressed in your leading article (30 April p 1117) could certainly cause confusion, doubt, and anxiety in those who care for asthmatics.

We have been concerned about treatment regimens with corticosteroids for asthma since 1954. About that time a number of trials in Britain with cortisone acetate were inconclusive,^{1,2} but other trials demonstrated its efficacy in improving the ventilatory capacity in asthmatic adults³ and children.^{4,5} There followed an era when opinions were sharply divided concerning the administration of steroids in acute and chronic asthma, and a number of tragedies occurred as a result of patients being switched from the care of protagonists to antagonists of corticosteroid therapy. Happily there is now more agreement concerning the use of steroids and it would be rare indeed for corticosteroids to be withheld in a case of status asthmaticus.

Originally we tried local aerosol corticosteroids for the treatment of asthma in 1959.⁶ At that time we were unable to demonstrate any advantage of hydrocortisone acetate over placebo and concluded that to be effective it would be necessary to give aerosol steroids in such a high dosage that a systemic effect would occur from local absorption. However, the preliminary trials with beclomethasone dipropionate of Dr Morrow Brown and his colleagues in 1971⁷ and their later results⁸ were so convincing that we instituted trials in 1972. We have been using beclomethasone aerosols extensively since then and our initial⁹ and long-term experience¹⁰ has been almost identical with that of Dr Morrow Brown and his colleagues in Derby. We are in full agreement with their practice of issuing emergency supplies of oral steroids to severe asthmatics who have had systemic steroids in the past. We agree that patients who are to be treated with steroid aerosols and who have been on either oral steroids or corticotrophin (ACTH) should be gradually weaned and closely monitored during this period. When they are successfully weaned then an addendum is attached to their blue steroid card. This addendum states how long the patient has been on steroids, the date when he or she was

weaned, and a note to the effect that an emergency supply of steroids has been issued to the patient for use in the event of severe asthma, injury, or infection, together with the dose of steroids that should be taken. We have found that such an issue of emergency steroids has only rarely been abused and we are convinced that this procedure has saved lives.

We also agree with the practice of the Derby clinic in issuing bronchodilators to patients subject to acute sudden attacks. Here such patients are issued with a bronchodilator in the form of salbutamol aerosol (Ventolin), which can be used with benefit before inhaling their aerosol corticosteroid and also when acute attacks occur.

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- ¹ Savidge, R S, and Brockbank, W, *Lancet*, 1954, 2, 889.
- ² Medical Research Council, *Lancet*, 1956, 2, 798.
- ³ Davies, B M, and Williams, D A, *British Medical Journal*, 1955, 2, 293.
- ⁴ Kennedy, M C S, and Thursby-Pelham, D C, *British Medical Journal*, 1956, 1, 1511.
- ⁵ Kennedy, M C S, and Thursby-Pelham, D C, *British Medical Journal*, 1958, 1, 243.
- ⁶ Kennedy, M C S, and Thursby-Pelham, D C, *Lancet*, 1960, 2, 816.
- ⁷ Brown, H M, and Storey, G, VIIIth European Congress of Allergy, 1971, Marseilles.
- ⁸ Brown, H M, Storey, G, and George, W H S, *British Medical Journal*, 1972, 1, 585.
- ⁹ Kennedy, M C S, and Posner, E, *Bulletin de Physiopathologie Respiratoire*, 1973, 9, 816.
- ¹⁰ Kennedy, M C S, Posner, E, and Thursby-Pelham, D C, *Postgraduate Medical Journal*, 1975, 51, suppl 4, p 84.

Isolation of campylobacters

SIR,—Following the publication of Dr M B Skirrow's paper on campylobacter enteritis (2 July, p 9) several laboratories which have previously not isolated the causative organisms are attempting to do so. Campylobacters have a growth requirement of an atmosphere in which the tension of oxygen is reduced and that of carbon dioxide increased and this has proved to be an inconvenience to those laboratories in which cylinders of hydrogen or nitrogen were not previously kept. I have found that it is possible to produce the appropriate atmospheric conditions with gas generating envelopes.

Initially in our laboratory we simply incubated the inoculated agar plates in a closed 2.5-l jar containing an activated BBL GasPak hydrogen-generating envelope but no catalyst. The organisms grew well, but the system was abandoned because it was potentially dangerous since it entailed maintaining hydrogen under pressure at 43°C in an incubator which was not spark-proof. The difficulties and dangers can be overcome by using two vented jars, one simply to generate a safe and suitable atmosphere which can be transferred to the other in which the agar plates are incubated.

The generating jar contains a catalyst and in it one places either an Oxoid Gas-Kit (H₂ and CO₂) or two BBL GasPak gas-generating envelopes, one producing CO₂ alone and the other CO₂ and H₂; both BBL envelopes may be necessary to produce adequate CO₂. After activation of the envelopes the generating jar is closed and left for a sufficient time for all of the gases to be released, 30 min with the Oxoid Gas-Kit, 150 min with the BBL GasPaks. The jar should then contain a mixture primarily of N₂ and CO₂, with some H₂. At this time the inoculated agar plates are placed in the second

incubating jar, which contains no catalyst. It is closed, the air evacuated, and 80 ml of air is reintroduced with a syringe. The generating and incubating jars are then connected to each other; the gases flow from the former to the latter and equilibrium is reached in a few seconds. All of the taps are closed, the jars are separated, and the one containing the plates incubated. The incubating jar should be safe, as it contains only a small amount of hydrogen and is under a slightly negative pressure. I have tested the system with eight strains of *Campylobacter jejuni* and it consistently produces satisfactory results.

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Activity and recurrent hernia

SIR,—Your leading article (2 July, p 3) is entirely correct in stressing the lack of correlation between early ambulation and recurrent hernia. It is, however, the long-term follow-up studies that are meaningless in evaluating the relative merits of the various techniques of herniorrhaphy. So many conditions enter such reports that the method of operation is but another variable.¹ Anson and McVay demonstrated many years ago that there are inherent defects in the various layers of the inguinal area that are not anatomically apparent at operation.² It has also been noted that "recurrent" hernias often occur in these tissues adjacent to the primary repair.

The problem is not that traditions die hard, but rather the fact that under the National Health Service surgery in British hospitals has become to an extent emergency-directed. Patients for elective operations (such as herniorrhaphy) are relegated to less important positions. The economic loss to the country of prolonged postoperative hospitalisation and disability could be prevented, but it would cost money to do so.

THEODORE I JONES

Salen,
Isle of Mull

- ¹ Jones, T I, *American Surgeon*, 1975, 41, 20.
- ² Anson, B J, McVay, C B, and Morgan, E H, *Surgery, Gynecology and Obstetrics*, 1938, 66, 186.

More hydatidiform moles?

SIR,—It was with great interest that I read the letter from Dr John P Calvert (27 August, p 578) on the increased incidence of hydatidiform mole that he had noticed from November 1976 to June 1977.

In Walton Hospital, Liverpool, the average occurrence of hydatidiform mole is about two or three a year, but when the "Asian" influenza epidemic of 1957 occurred, in the three months January-March 13 cases were admitted. All of the patients had had influenza at or around the time of conception and in six cases the husband was also ill with the disease. Four of the patients had spontaneous rupture of the uterus, the mole eroding the uterine wall completely, which necessitated removal of the uterus. In another patient multiple secondary growths were found in the lungs; as she was then 40 years old the uterus was removed and subsequently these secondaries completely disappeared. All the patients were followed up clinically and there was no occurrence of any malignancy.

A prospective study was started to try to find patients who had a virus infection in the early days of pregnancy and to relate this to the occurrence of either moles or fetal abnormalities, but it is very difficult to obtain an accurate history of viral infections early in pregnancy. While there have been no severe influenza outbreaks since the "Asian flu" and there has been no recurrence of the marked increase in the incidence of hydatidiform moles, my impression is that viral infection early in pregnancy is associated with an increased incidence of fetal abnormalities.

I would be interested to know whether others have had any similar experiences, as the incidence of these conditions in any one area or practice is comparatively uncommon.

S J BARR

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General practitioner prescribing costs

SIR,—No replies have been published to my question whether general practitioner trainees anywhere in Britain receive instructions in the economics of prescribing (30 July, p 319). This must surely stand as a serious indictment of the system by which they are trained. Advisers in general practice training, the trainers themselves, and hospital staff associated with trainees have an obligation to teach good, thrifty prescribing habits. To help in this I would suggest two practical aids.

GPs at present receive information regularly on the cost of their own prescriptions together with the local and national averages. Could this not be extended to include hospital doctors? Is it not also time that those of us working in the NHS accepted, indeed promoted, the advantages of an NHS drug formulary, probably based on the British National Formulary? Preparations not included in this could remain available but would not attract a dispensing subsidy.

Other countries, such as Australia, with public health care systems less well developed than the UK's already have this in use. Why not here?

ROBERT SCOTT

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Medical manpower

SIR,—Professor James Parkhouse could not have expected to write and publish his very excellent paper on a simple model for medical manpower studies (20 August, p 530) without exciting a certain amount of comment. In fact he has produced a very excellent model which should enable many people to clarify their thinking on this very complex subject. If I may quote Dr Alan Maynard, "The methodology of medical manpower planning in the past has been crude to say the least."

There are some obvious comments to make on the figures produced in Professor Parkhouse's document. It is very doubtful if the losses by emigration, which he does not in fact quantify in total (although one must assume that the 2500 overseas doctors coupled with the 600 United Kingdom doctors leaving the junior hospital doctors' box in 1975 in Professor Parkhouse's diagram formed a substantial part of the total doctor emigration),

will be sustained. A further comment which requires to be made on his diagram is that he correctly states the United Kingdom graduates figure for 1975 but ignores the United Kingdom non-graduate basic medical qualifications and the graduates of the Irish universities, who enjoy the same privileges as graduates of United Kingdom universities, who traditionally have looked to the United Kingdom as an area in which it is open for them to settle, and whose numbers exceed the demand of their home market by a factor of two. This would raise the potential number of doctors entering the junior hospital doctor box by around a further thousand. (Even with access to the most accurate figures available it is impossible to state a definite figure.) If one accepts this, then the conclusions which Professor Parkhouse makes become invalid.

PAUL R J VICKERS

Gosforth,
Newcastle upon Tyne

¹ Maynard, A H. Personal communication.

Dispute in Malta

SIR,—Doctors in Britain will have read with considerable concern of the events which have taken place as a result of the dispute between the medical profession and the government in Malta. Maltese doctors have been "locked out" of their hospitals and ejected from government residential accommodation. Distinguished members of the medical profession, some of whom are external examiners in Britain, have been "sacked" for refusing to sign unacceptable undertakings required by the government. Maltese students have been unable to take their final examinations, and between 30 and 40 of them will have arrived by the time this letter is published in order to take the Conjoint examination in this country.

The BMA has taken vigorous action in support of our Maltese colleagues and has arranged assistance for students arriving here. Meanwhile there is a pressing need for financial help both for students coming to Britain and for the doctors who are victims of the government reprisals in Malta. I appeal for help for the students and for our BMA Branch in Malta, and I should be very grateful if any contributions could be sent to me, indicating whether the donation is to be used to assist the students, our colleagues in Malta, or both.

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Points from Letters

Shortage of anaesthetists

Dr D EYRE-WALKER (Staffordshire General Infirmary, Stafford) writes: Dr D L Freedman's letter (13 August, p 456) regarding shortage of anaesthetists and his suggested method of overcoming this problem by using local techniques does indeed suggest a way out of the difficulty but he has overlooked one important factor. These techniques take time and, from my experience in our hospital at any rate, the turnover in cases would be much reduced and our waiting lists would grow just

the same. . . . I would query also Mr Freedman's remark that "regional intravenous anaesthesia gives the operator about 20 min . . ." If carried out with two tourniquets this technique should last as long as the surgeon is prepared to leave the tourniquet on an upper limb.

Ear-piercing problems

Dr A D REDMOND (Sale, Manchester) writes: . . . Although I agree there are problems encountered with ear-piercing (Dr Ann L Jay, 27 August, p 574), they are never very serious or permanent, and to exhort the profession to discourage this practice is, I feel, somewhat over-reacting. Surely the rational approach is to encourage the correct procedure to be adhered to when ears are pierced. If carried out correctly it is relatively pain-free and free from complications.

Cough suppressants

Mr M J GILKES (Sussex Eye Hospital, Brighton) writes: Some little while ago I was appalled by correspondence in the *BMJ* in which cough-suppressant therapeutics were cavalierly dismissed by apparently caring and clinically experienced correspondents as being without effect. The overall impression was given that such preparations should be abolished from the therapeutic armamentarium, at least on the NHS. . . . Having just experienced a short and sharp but none the less very acute upper respiratory condition, which appears to be mildly epidemic and of which the major feature was convulsive, almost pertussis-like repetitive and irritative cough, which at the end of 12 hours had brought the abdominal muscles to a state of acute tenderness, I can only say, "Thank God for the presence of an effective cough suppressant, such as linctus actifed co and linctus scillae co," without which even a partial night's rest would have been demonstrably unavailable. . . .

Latin as she is wrote

Dr GILBERT WALKER (Dundee) writes: I know it is unfashionable to consider spelling to be important, but is it asking too much to have our Latin tags correctly set out? Proof-reading should have eliminated the nonsense of "res ipse loquitur" (27 August, p 569). . . . Unless my book is out of date "res" is feminine and "loquitur" is a verb. Res ipsa loquitur.

Treatment of hiccup

Mr S GOLDWATER (London NW2) writes: However an attack of hiccup commences it would seem that a vicious circle is set up consisting of hiccup producing air-swallowing, producing a further hiccup, and so on. When the attack has been going for some time there is usually a marked increase in the area of gastric resonance and treatment should surely be aimed at reducing the amount of air in the stomach. On this hypothesis I have treated many cases with charcoal tablets and have instructed patients to continue chewing them at least once an hour and in extreme cases continuously. In most cases I have met with success on this simple regimen. . . .