Potassium Iodide in Bronchial Asthma

SIR,—Last year two cases of swelling of the salivary glands after oral potassium iodide were described in the *B.M.J.*¹ These and other unwanted effects may have brought this substance into disrepute, which Strümpell² regarded as one of the best remedies for bronchial asthma. On the other hand Alstead³ found that low doses of potassium iodide were ineffective, and this may have contributed to the fact that it was little used. I have investigated the desired and the unwanted effects of potassium iodide more closely in a large number of patients.⁴

I have evaluated the records of 2,404 patients treated with potassium iodide in the Asthma Clinic of the Free University of West Berlin during the last 10 years for periods between three weeks and 10 years. All patients (1,184 men, 1,120 women, and 100 children) suffered from chronic obstructive disease of the airways such as bronchial asthma or chronic bronchitis. The dosage of potassium iodide varied from 3.6 to 36 g. daily. As a blind trial was not possible because of the characteristic taste and after-taste of the drug, it was given for four consecutive days, followed by a free interval of three days⁵ and continued in the same rhythm. In the normal course of this treatment phlegm was expectorated more freely and the cough decreased during the four days of potassium iodide administration; this, therefore, also improved breathlessness. During the subsequent free interval these complaints often gradually increased again. Such a course of events could not possibly have been anticipated by a patient, and if it was spontaneously reported by him this was regarded as objective evidence of the potassium iodide effect. During treatment with the iodide the morning cough disappeared or was shortened, sometimes with the lowest, sometimes with higher doses, and the use of antispasmodic aerosols and the exercise dyspnoea decreased. A high percentage of the patients improved considerably, details of which are given elsewhere.⁴

There were unwanted side-effects after 12–36 hours and others occurring after weeks or months. The former were swelling of the salivary glands, iodine coryza, and iodine acne (in 7% of all patients). The swelling of the salivary glands, which sometimes resembled mumps or Quincke's oedema,¹ usually does not recur if after a short interval potassium iodide is given in small and gradually increasing dosage. The long-term side-effects, occurring after some months or years, were mainly stomach upsets and myxoedema. They were dose-dependent. The incidence of stomach complaints increased from 10.9% (of 1,225 patients) with small doses to 40.7% (of 103 patients) with the highest dosage; that of myxoedema from 0.2% (of 1,225 patients) to 2.9% (of 103 patients). The danger of myxoedema, therefore, appears less than suggested by other observers.^{6,7} It can be recognized easily and treated successfully. In 3.4% of the total 2,404 patients the potassium iodide therapy was abandoned because of stomach complaints.

It appears, therefore, that the unwanted effects of potassium iodide are no more important than those of many other remedies, and that its benefits can be considerable, particularly in the patients with viscous phlegm.

These results should encourage more

physicians to treat the secretion of too much or too viscous mucus, occurring in bronchial asthma and related diseases, with potassium iodide.—I am, etc.,

CHRISTINE BERNECKER.

Free University,
West Berlin.

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Inappropriate Lactation

SIR,—Various forms of drug therapy, especially certain preparations extensively used in modern psychiatric practice, must now be the commonest cause of non-puerperal galactorrhoea, and Drs. N. E. F. Cartledge and P. Hodgson (30 August, p. 529) have performed a valuable service in drawing attention to this problem. Our experience suggests that cases of this type are being referred in increasing numbers to gynaecological clinics, where failure to appreciate the likelihood of an iatrogenic aetiology may lead to unnecessary time-consuming and expensive investigations, with consequent needless distress and anxiety to the patient.

A number of psychotropic drugs have already been implicated as causing galactorrhoea,^{1–3} and we personally have observed the condition in patients on chlordiazepoxide and thioridazine, but we would like to describe here a case in which spurious lactation was apparently caused or aggravated by a monoamine oxidase inhibitor, phenelzine, which we believe has not previously been implicated.

The patient, an unmarried 19-year-old woman, had a long history of severe personality disorder with phobic and depressive symptoms. Treatment with thioridazine 50 mg. three times a day, and phenelzine 15 mg. three times a day, was started in November 1967. Prior to this there had been no history of breast activity. On review four months later her breasts were enlarged and her complaint of a milky discharge from them was readily confirmed. In view of the known association of thioridazine with galactorrhoea this drug was replaced by diazepam 5 mg. three times a day. She was seen again three months later, when lactation and breast enlargement were markedly increased, and it transpired that this had followed a self-prescribed doubling of the dosage of phenelzine. Withdrawal of phenelzine was followed by rapid diminution of lactation and breast size despite continued treatment with diazepam. Menstruation and the findings on pelvic examination remained normal throughout these events. X-rays of the skull and pituitary fossa, urinary ketosteroid assays, electroencephalography, and C.S.F. investigations revealed no abnormality.

The onset of lactation in this case could be related to thioridazine, but this could not account for the exacerbation which occurred several weeks after its discontinuation. This increased lactation occurred after the administration of diazepam (which like phenelzine has not previously been reported to cause galactorrhoea), but the marked resolution of symptoms on stopping phenelzine, despite continued diazepam therapy, makes it appear

unlikely that the latter was the cause of the increased breast activity. On balance, therefore, the evidence points to phenelzine as the cause of lactation in this patient, and this conclusion is supported by a personal communication from the manufacturers to one of us (M. S.) describing a similar, unpublished, case occurring in a post-menopausal woman.—We are, etc.,

M. SEGAL.
R. F. HEYS.

General Hospital,
Halifax, Yorks.

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Selective Vagotomy without Drainage

SIR,—Mr. H. Burge and his co-workers (20 September, p. 690) have made a most helpful contribution in showing that a drainage procedure is not essential after selective vagotomy in patients who do not have any pyloroduodenal stenosis, but it is possible that they may find similar results in patients with a truncal vagotomy.

I have done barium meal studies using fluid barium over several years on all vagotomy patients seven to ten days after operation, and on many of these three months or more later. Some had selective vagotomy, usually with preservation of the pyloric branch and some had truncal vagotomy. I was also able to compare pyloroplasty with gastrojejunostomy, and in neither type of drainage could I find any difference in emptying between the selective and truncal vagotomy patients. Patients with delay in emptying fell into two groups, those with early and usually short-lived retention, and those developing retention in the second week after operation which persisted for a variable time. In the former group the retention seemed to be due to a temporary inability of the stomach to contract, because when on occasion anxiety led one to do a laparotomy the drainage stoma was usually wide open, and this occurred with both selective and truncal vagotomies. The later speed of emptying seemed to be related to a return of stomach tone together with a degree of peristalsis restricted to the pyloric end, and also on the rate at which the duodenum and/or upper jejunum accepted barium and propelled it forwards. Here again there was no difference between truncal and selective vagotomies.¹

It is true that the pylorus is put out of action by the drainage procedure, but if the pyloric branch does have a motor function it is likely that the selective vagotomy patients would have shown peristaltic activity of the pyloric antrum earlier and more often than the truncal vagotomy patients. The preservation of the vagal duodenal innervation which is present in selective vagotomy patients through the hepatic and gastroduodenal plexus irrespective of division of the pyloric branch seems to make no difference in emptying.

The important factor in emptying after selective vagotomy preserving the pyloric branch or truncal vagotomy may not be the

type of vagotomy that has been done, but may be the patency of the pylorus and first part of the duodenum.—I am, etc.,

FRANK I. TOVEY.

Basingstoke and District
Hospital,
Hants.

REFERENCE

- ¹ Tovey, F. I., *British Journal of Surgery*, 1969, **56**, 449.

Routine Tranquillizers in Obstetrics

SIR,—Mr. N. K. B. Kimbell and Dr. R. E. Loder's remarks on the use of promazine in obstetrics (27 September, p. 779) is a most useful contribution towards reappraisal in the use of this drug.

My own view is that intramuscular promazine with pethidine can be a most dangerous combination. Tranquillizers are not really required in normal labour, and does it do much for the hysterical patient anyway during labour? Surely a confident, firm, and kindly attitude by the accoucheur is much more effective.

I have seen several cases of hypotension and collapse following intramuscular promazine 50 mg. of such severity as to temper my future therapy with extreme caution.

I firmly believe that if we must use tranquillizers during labour 25 mg. promazine is usually adequate to tide the patient over a difficult period. Using this dose in a large number of women, I have had no trouble.—I am, etc.,

ALASTAIR M. BLAIN.

Elgin.

Systemic Corticosteroid Therapy

SIR,—Your article in "Today's Drugs" (11 October, p. 92) provokes comment. In long-term replacement therapy the correct dose is the amount required to restore the patient's well-being. This varies in part with age, and with the efficiency of absorption and conversion of cortisone to cortisol, since cortisone is biologically inactive until converted to cortisol. A total of 37.5 mg., in two doses of 25 mg. on rising and 12.5 mg. at midday, is the usual requirement and in my experience patients rarely feel completely well on less. Many patients experience much greater well-being on tablets of hydrocortisone (cortisol), 30 mg. being given in divided doses as above. When these doses are given salt supplements are not required under the climatic conditions usually obtaining in Britain, provided fludrocortisone, 0.1 or 0.2 mg. daily, is added as a substitute for aldosterone.

Tuberculosis is an uncommon cause of Addison's disease today, and when it is the disease has in most cases already been treated and is inactive, so that it is extremely rare to reactivate latent tuberculosis by replacement therapy. Prednisolone is useful in replacement therapy in the few patients (mostly adrenalectomized for Cushing's syndrome) who readily become oedematous on cortisone or cortisol and yet do not feel well, when for this reason they are given only small doses of salt-retaining steroids.—I am, etc.,

E. J. ROSS.

University College Hospital
Medical School,
London W.C.1.

Little Strokes

SIR,—The excellent paper on "Little Strokes" by Dr. E. C. Hutchinson (4 October, p. 32) prompts me to observe that this diagnosis, which he defines so clearly, is seldom applied correctly. Our experience is that elderly patients with the symptoms he describes are not always referred as possibly having a stroke, whereas those sent to hospital as cases of "little strokes" either have profound hemiplegia or more commonly have such unrelated conditions as pneumonia, urinary infection, myxoedema, hypothermia, or cardiac infarction in which the only common denominators suggesting a "stroke" appear to be prostration and slurred speech.—I am, etc.,

R. S. STEVENS.

Department of Geriatric Medicine,
St. Mary's Hospital,
Near Folkestone,
Kent.

Unusual Effect of Fenfluramine

SIR,—I have prescribed fenfluramine, 20 mg. tablets, to a number of patients, but I have today had a patient who described a side-effect from the tablets which I have never before come across. When this patient took two tablets a day, one mid-morning and one before her evening meal, she had three nightmares that night. Each time she felt as though someone was choking her or putting her head under water, and she woke up taking one or two gasps. This happened three times the first night, and the same story was repeated the next night. After this she did not take the evening tablet, and had no symptoms for one week taking only one tablet a day. At the end of the week she resumed taking two tablets again, and the symptoms recurred just as they had done the first two nights. Being very faithful to her doctor, and very keen to reduce her weight, she repeated the two tablets the following day and had exactly the same experience. Since then she has been taking one tablet a day for about two weeks but has not had any nightmares.

I would be most interested to know if anyone else has come across such side-effects of the drug.—I am, etc.,

M. Y. ALVI.

Burnley General Hospital,
Burnley, Lancs.

Drug Seeker

SIR,—I have been asked by the Royal National Institute for the Blind Physiotherapy School to point out that my patient (4 October, p. 52) was not at any time a student of theirs. During my contact with him this patient did not say in which town or country he had obtained his qualification.—I am, etc.,

M. E. GILL.

Hertford Heath,
Herts.

Antivenom Stocks for Adder Bite

SIR,—Your leading article on the treatment of adder bite (16 August, p. 370) suggests that the Zagreb antivenom would benefit patients with severe adder-bite poisoning as shown by persistent shock. The Standing Medical Advisory Committee has decreed that

doctors who favour antivenom treatment should make their own arrangements to obtain supplies. Since most hospital specialists in Britain have little or no experience of dealing with snakebite, and since the Zagreb antivenom would be required only for a small minority of bites, some medical committees may be uncertain whether antivenom should be stocked or not.

I think the sensible method of dealing with the problem would be to confine stocks of Zagreb antivenom to one central hospital in each regional board area or in each county where adder bite is a possibility. Ten ampoules should be sufficient, and the antivenom should be used on the authority of a consultant. The rare victims with persistent shock could easily be referred to the central hospital in time for the antivenom to be effective.—I am, etc.,

H. A. REID.

School of Tropical Medicine,
Liverpool.

Filming during Anaesthesia

SIR,—In their letter (27 September, p. 779) Mr. I. T. Jackson and Dr. R. T. Nolan refer to the dangers of hyperpyrexia while filming patients under anaesthetic.

With modern fast colour films this is a danger that should not arise. An area of about 11 in. by 9 in. (27 cm. by 22 cm.) can be adequately covered with a single 500-watt spotlight, allowing an aperture of about f8 when using Ektachrome 7242, which has a speed of 125 A.S.A. Furthermore, it is not expensive to fit a heat filter of Chance ON20 glass to this size of lamp, in which case 80% of the heat is absorbed.

The single near axial source is to be preferred in any case for filming moist areas and where cavities are involved. It produces the minimum number of highlights, avoids cast shadows from the surgeon's hands, and shadows of extraneous sources due to actions outside the picture area. Finally, if the camera angle has to be changed during the operation there is a minimum of equipment to be moved. The normal scintillating illumination should of course be turned off during filming to avoid unnecessary reflections.—I am, etc.,

P. N. CARDEW.

Department of Audio Visual
Communication, Film Unit,
St. Mary's Hospital Medical School,
London W.2.

New Consultant Surgeon in Shrewsbury Group

SIR,—In my view the letter from Dr. A. B. Shrank, honorary secretary to the Shrewsbury Group Medical Advisory Committee (6 September, p. 599), is most unsatisfactory, and I find I am not alone in this view. The letter is apparently written with the aim of influencing possible applicants for the post of consultant surgeon in the group, and the matter is also one of importance to other members of the profession. Surely we are entitled to know the reasons for the action of the Shrewsbury Medical Advisory Committee?—I am, etc.,

A. L. JACOBS.

Whittington Hospital,
St. Mary's Wing,
London N.19.