Changing Incidence of Congenital Pyloric Stenosis in Barbados

SIR,—A study of the records of the paediatric department of the Queen Elizabeth Hospital, Barbados, where I was recently resident for a year, shows that there has been an increase in the incidence of congenital pyloric stenosis in the island in recent years. During the period 1963-8 only two cases occurred, both in 1967. There was one case in 1969, two in each of the next three years, and seven in 1973 (up to October). Of the total of 16 cases, 14 were in males—11 of them the firstborn. All but two of the infants were Negroes. The history was typical in each case; two infants were noted to have accompanying jaundice. The diagnosis was confirmed at operation in all cases. One child died a day later; this infant was severely malnourished and dehydrated on arrival in hospital.

Barbados has a population approaching a quarter of a million. There is relative ease of communication. Health care is free at the Queen Elizabeth Hospital. Congenital pyloric stenosis tends to run an unremitting course, and it is unlikely that an infant with persistent vomiting from pyloric stenosis missed the attention of the three consultant paediatricians on the island. The birth rate has tended to decline slightly over the past 10 years. The population of the island is divided into an ethnic pattern of 89% Negro, 4% White, and the remainder mixed races.

The figures are presented in that they dispute previous reports in the literature of the rarity of pyloric stenosis in Negroes, while it is also interesting to speculate whether the rise could be attributed to some external stimulus of recent introduction to the general population. The relative rarity of pyloric stenosis in African infants was reported by Swan,¹ whose findings are supported by figures from the West Indies and the United States. Some paediatricians however, such as Schaffer from Baltimore,² have recorded the impression of a decline in the incidence of pyloric stenosis. As discussed above, it is unlikely that previously missed cases are now being detected in Barbados. The island has undergone increasing urbanization in recent years, and mothers and children are enjoying the diets of the developed countries, but it is hard to identify the aetiological factor responsible for such a dramatic increase in cases. Whether the increase is a real one can be shown only by a study of the incidence in future years, but pyloric stenosis can no longer be considered a rarity in Barbados.

I would like to thank Dr. A. C. Graham for allowing me to report on his cases, and for his helpful advice.

—I am, etc.,

DAVID E. MURFIN

Swansea

¹ Swan, T. T., *British Medical Journal*, 1961, 1, 545.

² Schaffer, A. J., and Avery, M. E., *Diseases of the Newborn*, 3rd edn., p. 296. Philadelphia, Saunders, 1971.

Dementia in the Elderly

SIR,—I have noticed a slip in my article on this subject (8 December, p. 602) which needs correction. Having spoken of the usefulness of thioridazine and chlorpromazine by mouth I go on to mention both drugs in the context of parenteral administration.

Thioridazine, however, is not available for injection and I am afraid its repetition in that context was an unintentional clinical example of the "perseveration" which is a feature of the condition that the article was about.—I am, etc.,

TOM ARIE

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Ilford, Essex

SIR,—As an addition to Dr. Tom Arie's excellent survey of investigations (1 December, p. 540) may I mention that blood platelet electrophoresis is a useful and relatively simple test to differentiate neurogenic from arteriosclerotic dementia?¹—I am, etc.,

STEPHEN SZANTO

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¹ Szanto, S., *Age and Ageing*, 1972, 1, 207.

Acute Transient Polyneuritis Associated with Oral Contraception

SIR,—We wish to report a very rare possible complication of oral contraception. A 23-year-old healthy woman had taken Enavid (mestranol 0.075 mg and norethynodrel 5 mg in each pill) cyclically for six months until nausea appeared. Two years later she started taking Sequelan (mestranol 0.1 mg in the first 15 pills and mestranol 0.075 mg and norethynodrel 5.0 mg in the last five in each series). After three days she experienced mild plantar pain and paraesthesiae which increased rapidly in intensity and extent above ankles, and drug intake was therefore suspended after the 15th pill. At that time there was marked pain in the feet with difficulty in walking and hypaesthesia to pain in a stocking-like fashion up to the ankles. The erythrocyte sedimentation rate was 45 mm in one hour and 68 mm in two hours, the total leucocyte count 9,400/ μ l, and the eosinophil count 6/ μ l. The glucose tolerance test was normal. The motor conduction in the peroneal nerve was 38 m/sec. with splitting of the potential and low amplitude. Within three weeks pain disappeared and walking was normal, though hypaesthesia to pain persisted in her feet. The motor nerve conduction in the common peroneal nerves returned to normal (46m/sec).

Among the possible pathogenetic mechanisms which can be thought of as responsible for the development of peripheral neuropathy, we are most inclined to incriminate an allergic sensitization to mestranol. The present case strongly resembles the one reported by Strang¹ in 1965, and this tends to diminish the possibility of a possible coincidental occurrence of an infective polyneuritis.—We are, etc.,

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¹ Strang, C. D., *British Medical Journal*, 1965, 2, 879.

One Thousand Vasectomies

SIR,—While I was most interested to read the article by the staff of the Margaret Pyke Centre (27 October, p. 216), I was shocked to read Mr. I. G. Schraibman's riposte in the

issue of (17 November p. 418). Vasectomy never needs to be done under general anaesthesia on a healthy man except for re-exploration of a previous operation, and the removal of 7.5 cm of vas is completely contrary to the unanimous resolution of the Second International Conference on Sterilization held in Geneva in February 1973. This stated that the operation must always be done bearing in mind the possible necessity for future re-anastomosis should the patient remarry, and it thus follows that a minimal amount of vas must be destroyed compatible with an effective operation, so that a repair operation can in fact be undertaken if required at a later date.

Over 5,500 patients have had vasectomies at the Marie Stopes Memorial Centre, all of them under local anaesthesia, and we have long ago completely abandoned the use of non-absorbable sutures as these tend to cut out and form stitch abscesses. The presence of semen 12, 14, and 15 months after operation respectively in three cases out of Mr. Schraibman's series of 223 is no improvement on previous reports and certainly cannot justify subjecting these patients to the disadvantage of painful mobilization of the vas and increased postoperative pain or the use of valuable hospital beds and theatre and anaesthetists' time, quite apart from the vastly increased cost of the operation.

The actual necessity for removing any of the vas has not been definitely established and Schmidt¹ does not remove any vas; instead he cuts it across and coagulates the lumen on each side with diathermy. He claims never to have had any failures.

There is no conclusive evidence that tying back the ends is an improvement, and Marshall and Lyon² record a case where recanalization took place after a section of vas had been removed, the lumina had been coagulated with diathermy, and the ends ligated with silk after being turned back.

That vasectomy can readily and efficiently be undertaken as a quick, simple, and permanent form of contraception by a trained, competent, and experienced general practitioner in the context of family planning in suitable premises has been amply demonstrated³⁻⁸ and one wonders how the use of hard-pressed and expensive hospital resources can possibly be justified for the sake of unnecessarily removing 7.5 cm of vas and subjecting the patient to pain and discomfort and loss of work.—I am, etc.,

MICHAEL ALTMAN

London W.1

¹ Schmidt, S. S., *Journal of the American Medical Association*, 1971, 216, 522.

² Marshall, S., and Lyon, R. P., *Journal of the American Medical Association*, 1972, 219, 1753.

³ Altman, M., *British Medical Journal*, 1972, 1, 311.

⁴ Hobbs, J. J., *British Medical Journal*, 1972, 1, 802.

⁵ Altman, M., *Medical News-Tribune*, 21 January, 1972, p. 4.

⁶ Peel, J., and Potts, M., *Textbook of Contraceptive Practice*. London, Cambridge University Press, 1969.

⁷ Vasectomy: Follow-up of a Thousand Cases. Cambridge, Simon Population Trust, 1969.

⁸ Nicholas, P., and Nicholas, S., *British Medical Journal*, 1972, 1, 377.

Anticonvulsant Hypomagnesaemia

SIR,—The occurrence of osteomalacia in epileptics on anticonvulsant therapy is well established, as is the effect of vitamin D in such patients.¹ Intestinal magnesium absorp-