

studied at this hospital the homosexual proportion of patients was 16.8%, that of penile warts in homosexuals (24) compared to those seen in heterosexuals (482) was only 5%.—I am, etc.,

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¹ Oriel, J. D., *British Journal of Venereal Diseases*, 1971, 47, 373.

SIR,—In your leading article on "Condylomata Acuminata" (22 April, p. 179) you mention the treatment of soft anogenital warts with podophyllin 10-25% in spirit. The irritant effect of strong podophyllin on the normal skin is of course well known, and the older standard technique of using 20-30% in liquid paraffin or similar bases had some disastrous effects if precautions were not taken to remove the agent after four hours. Although protection of the surrounding skin with soft paraffin may help, severe balanitis is still liable to occur, especially in the uncircumcised.

For many years now I have been treating such warts with 3% podophyllin in propylene glycol. The main advantages of this preparation is that the treatment can be carried out daily (with an orange stick) by the patient himself. The only instructions that I give to the patient are to wash the area first with soap and water, to apply a simple dusting powder after the application, and to stop treatment temporarily if the area is too irritated.

If the warts are still present after about six applications, they are almost certainly too hard and cautery or diathermy will be necessary.—I am, etc.,

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Chondromalacia Patellae

SIR,—In your leading article on "Chondromalacia Patellae" (15 April, p. 123) you discuss many of the problems of pathogenesis, diagnosis, and treatment of this condition, but you do not mention one important type of patello-femoral degeneration which may follow plaster treatment of lower limb fractures.

In assessing claims for damages following leg fractures I have been impressed with the frequency with which these patients subsequently complain of grating behind the patella. Such grating is not infrequently the most prominent complaint at the conclusion of treatment and it may be very difficult to estimate the significance of the symptoms. However, I am convinced that in the vast majority of cases this sequel is due to the effect of pressure of the plaster cast on the patella. The condition is therefore preventable. Prevention is a simple matter of cutting a window over the front of the patella thus allowing the patella to protrude through a hole in the plaster.

This type of plaster has been found to be more comfortable than the conventional plaster. Cutting the window is facilitated by first applying to the front of the knee a circular piece of orthopaedic felt 6 inches in diameter.

I have been so impressed with the effect-

iveness of this measure that I have not thought it justifiable to conduct a controlled trial. Such a trial would not be difficult in a large fracture unit, however.—I am, etc.,

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Fat Embolism in Patients with Fractured Hips

SIR,—As one of the co-authors of the article on fatal fat embolism following replacement arthroplasty for transcervical fractures of the femur (Dr. G. A. Gresham and others, 12 June 1971, p. 617) I was interested to read Dr. I. Sevvit's article (29 April, p. 257). In the catchment area covered by our article, Moore's arthroplasty was not performed and no comparison was possible between the use of a stemmed prosthesis with and without the use of acrylic cement.

During the last 18 months I have had access to six further cases of fat embolism in the East Suffolk area, in patients who died after fractures of the upper end of the femur. All were women. One had an intertrochanteric fracture and the rest subcapital fractures. The former and one of the latter did not have sufficient fat in the lungs to cause death, although they were both aged 87. Another patient died three days after injury from massive fat embolism before operative treatment had been carried out. A fourth patient died within six hours of a Thompson arthroplasty using cement. The remaining two patients died from massive fat embolism after Moore's arthroplasty without the use of cement. Both operations were done through a posterior approach. One was a woman of 74 who was operated on 10 days after her injury and died within 9 hours of operation. The other was aged 90, operated on two days after an injury and died about 14 hours later. The amounts of fat in the lungs in both these patients were sufficient to have caused death.

These are only two instances of fatal fat embolism after an arthroplasty using a stemmed prosthesis without cement, but it does indicate that the complication exists. I believe that it will prove to be more common if the pathological changes are searched for routinely as the overall mortality rate after the various prosthetic procedures is very similar.¹—I am, etc.,

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¹ Hunter, G. A., *British Journal of Surgery*, 1969, 56, 229.

Total Replacement of the Hip

SIR,—Your leading article (22 April, p. 177) reflects the present enthusiasm for total hip replacement, and it is not surprising that an operation which results in up to 90% of patients being completely relieved of their symptoms¹ should be so acclaimed. However, we feel that some caution is necessary when contemplating reconstructive joint surgery involving the use of acrylic cements.

There have been many reports in the British literature²⁻⁶ of acute hypotension and of fatalities associated with the application of methylmethacrylate cement during total hip replacement, and similar reports have now appeared from the U.S.A.^{7,8} where the

clinical use of this substance has only lately been allowed. A recent investigation⁹ showed that the liquid component of the commercially available cements was the cause of the cardiovascular disturbance.

Transient hypotension was shown to be the main effect which was compensated by an increase in cardiac output. Those patients who have a fixed cardiac output are therefore specially at risk if methylmethacrylate cement is used. The liquid component consists of monomeric methylmethacrylate with small amounts of hydroquinone, dimethylparatoluidine, methanol, methacrylic acid, and water. Our recent (as yet unpublished) work demonstrated unequivocally that methylmethacrylate alone is responsible for the hypotension.

There is no place for a complacent attitude when considering those operations during which large amounts of this acrylic cement are applied to vascular bone surfaces, and it is to be hoped that an innocuous cement compound will be developed as an alternative to methylmethacrylate. Until then, as already stressed by Charnley and his colleagues,⁹ the most cautious selection of patients is essential so that only those in whom the advantages of the procedure outweigh the dangers of its performance are submitted to operations using large amounts of bone cement.—We are, etc.,

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- 1 Charnley, J., *Journal of Bone and Joint Surgery*, 1972, 54B, 61.
- 2 Powell, J. N., McGrath, P. J., Lahiri, S. K., and Hill, P., *British Medical Journal*, 1970, 3, 326.
- 3 Ling, R. S. M., and James, M. L., *British Medical Journal*, 1971, 2, 404.
- 4 Thomas, T. A., Sutherland, I. C., and Waterhouse, T. D., *Anaesthesia*, 1971, 26, 298.
- 5 Phillips, H., Cole, P. V., and Letting, A. W. F., *British Medical Journal*, 1971, 3, 460.
- 6 Peebles, D. J., Ellis, R. H., Stride, S. D. K. S., and Simpson, B. R. J., *British Medical Journal*, 1972, 1, 349.
- 7 Cohen, C. A., and Smith, T. C., *Anesthesiology*, 1971, 35, 547.
- 8 Newens, A. F., and Volz, R. G., *Anesthesiology*, 1972, 36, 298.
- 9 Charnley, J., Murphy, J. C. M., and Pitkeathly, D. A., *British Medical Journal*, 1971, 3, 474.

ABO Blood Groups and Sex Ratio at Birth

SIR,—In a series of 264 ABO blood-grouped white newborn babies and their mothers reported in 1925 Hirsfeld and Zborowski¹ observed that the sex ratio—that is, the ratio of males to females—was higher for babies of mothers of blood group AB than for babies of mothers of the combined blood groups A, B, and O ($P < 0.05$). They declared that "if this finding were confirmed it would have far-reaching theoretical significance," and in view of this it is interesting that, as the Table shows, the difference they observed obtains ($P < 0.01$) in the aggregate, totalling 45,645 cases, of all 15 of the white series reported in 1924-72.^{1,4} (This aggregate includes a personal series of 14,451 cases, of whom 5,612 were reported previously.³) Further, in a series reported in 1951 Sanghvi² observed that the sex ratio was higher for B babies of B mothers and O babies of O mothers than for A babies of A mothers, and the Table shows that the same difference obtains in the 1924-72 aggregate.

The Table shows also a new finding, in that the difference observed by Sanghvi is, in this aggregate, accompanied by a differ-