Transient pseudo-precocious puberty by probable oestrogen intake in 3 girls

SIR,
I was interested to read this account but I would dispute the view that the ingestion of an unidentified oestrogen was probably the cause of transient pseudo-precocious puberty. The clinical features in all 3 girls would be consistent with those caused by a follicular cyst of the ovary which had undergone spontaneous rupture, thus leading to withdrawal bleeding and low plasma oestradiol values at the time of investigation. Such cysts may be freely mobile and very difficult to detect on clinical examination. However, they can be readily demonstrated by sonography, a technique which is useful in the assessment of female precocious puberty.

DB GRANT
The Hospital for Sick Children, Gt Ormond Street, London WC1N 3JH

Guidance of ventricular tap by ultrasound

SIR,
The interesting article of Levene deals with the advantage of ventricular punctures by ultrasound. We use a mechanical sectorscanner (ADR-Kranzbühler) in our department. It is fitted with a short-focus 3 MHz transducer. An adaptor is attached to the head which allows a needle to be directed obliquely in the ultrasound field. During the puncture the needle tip is continuously monitored on the TV screen as it penetrates into the tissues. Before the puncture both the transducer head and the adapter are

Dr Greenough comments:

We are grateful to Devlieger et al. for showing interest in our demonstration that Head’s reflex can be provoked by intermittent positive pressure ventilation in very preterm babies. We have now studied in detail the stimulating and moderating factors of this reflex in 40 ventilated preterm babies (a preliminary report was published in 1982).

In summary, augmented inspirations were seen only in neonates ventilated at frequencies less than or equal to 15 per minute. Although this reflex was seen at all the gestational ages studied (24-36 weeks) it could not be elicited after the fifth postnatal day. The frequency of occurrence of the reflex was inversely related to the dynamic compliance, as was the ventilator pressure necessary to stimulate this 'paradoxical response'. It always occurred early in ventilator inflation, within 0-2 seconds from the onset, and 'provoking' ventilator volume was remarkably similar in all babies when related to bodyweight—5·72±1·1 ml/kg (mean±SD). Babies who showed a higher frequency of this reflex than might have been expected from their lung compliance, appeared to benefit by requiring shorter periods of ventilation. In consequence any technique which could enhance the elicitation of this reflex should improve ventilation of such babies.

These studies show that the way in which the baby’s spontaneous respiration interacts with the respirator is very important. Babies are not always passive recipients of ventilation, nor do they consistently fight the ventilator. These phenomena deserve to be studied in more depth if we are to improve our knowledge and techniques of neonatal ventilation.

We thank Dr Poulton for her comments, during none of the reported recordings was there any intrapleural air remaining on the chest x-ray film.

References