Correspondence 965

2·1 for the respective birthweights. The relative risks for the two outcomes by birthweight are similar.

Data for subsequent years will be of better quality than for 1978 as the birthweight is now recorded for a greater number of infant deaths. Such data will serve to confirm or refute the association pointed out here.

References

R G NEWCOMBE
Welsh National School of Medicine,
Department of Medical Statistics,
Heath Park, Cardiff CF4 4XN

Benign carotenaemia

Sir,

We read with interest the article by Congdon et al.1 and should like to draw attention to a paper by Fishman and Joseph2 which described 8 patients with this condition. Carotenaemia is common in this region but probably goes unrecognised because, except for the yellow tint of the skin, the children are asymptomatic.

The condition is manifested by a generalised yellow pigmentation, particularly on the palms of the hands and soles of the feet, but is absent in the sclera and buccal mucosa. The icteric colour tends to give the patient an anaemic appearance.

Our patients were infants aged between 6 months and 1 year. Their source of carotene was mashed vegetables—such as squash and pumpkin—and an excessive amount of carrots and carrot juice. The infants were not fed homogenised foods. When these vegetables are excluded from the diet it takes about 6 to 8 weeks for the skin to regain a normal colour and the serum carotene level to return to normal.

It is important to consider carotenaemia in the differential diagnosis of jaundice in apparently well children.

References

JEAN E FISHMAN
Negev District, Ministry of Health,
Beer-Sheba, Israel
A Y JOSEPH
Children’s Ward C,
Soroka Medical Centre,
Beer-Sheba, Israel

Hypertension and upper airways obstruction

Sir,

We were greatly interested in the paper by Serrato et al.3 and the fact that they had found significant hypertension in 3 of 14 patients with upper airways obstruction associated with heart failure. We had a similar case recently.

A 30-month-old achondroplastic boy was admitted with congestive heart failure. He showed considerable respiratory distress and was cyanosed. Bilateral Harrison’s sulci were noted, rhonchi and rales were audible in both lungs, and there was generalised oedema. Systolic blood pressure of 280 mmHg was recorded in the arm, and femoral pulses could easily be palpated. A chest x-ray film showed gross cardiomegaly and signs of pulmonary oedema. The frontal QRS axis of an electrocardiogram was +135° with evidence of right atrial and right ventricular enlargement.

His condition improved with administration of intramuscular penicillin, kanamycin, hydralazine, and frusemide. Signs of cardiac failure had resolved 10 days later and his blood pressure was 120/60 mmHg. A chest x-ray film showed diminution of heart size and disappearance of congestive changes. An intravenous pyelogram was normal and so were levels of vanillylmandelic acid.

When last seen at age 3 years 2 months, our patient was clinically well but was noted still to be a mouth breather. No longer was he taking antihypertensive medication and the systolic blood pressure was 98 mmHg (Doppler) in the right arm. The repeat electrocardiogram now showed a QRS axis of +90° and was within normal limits for age.

There had been a history of recurrent upper respiratory tract infections which had started when he was aged 9 months. When 20 months old, enlarged adenoids had been removed and grommets inserted in the ears. Despite this he had two further episodes of infection culminating in the clinical picture of cor pulmonale as described above. Each episode seemed to be associated with upper airways obstruction, perhaps aggravated by his cranio-facial malformation.

We too were puzzled by the considerable systemic hypertension, and like Serrato et al.3 postulated that the severe hypoxaemia, via central mechanisms, might have been responsible for the raised blood pressure. We agree that upper airways obstruction should be considered in the differential diagnosis of children presenting with heart failure, respiratory distress, and systemic arterial hypertension.

Reference