LETTERS TO THE EDITOR

Radiological reliability in atlantoaxial subluxation

SIR,—I read with great interest the thought provoking article by Selby and associates.1 The authors have found atlantoaxial subluxation in 18 out of 131 patients with Down’s syndrome. Repeat radiographs performed at 10 minute intervals in 19 patients, including six with subluxation, showed that in three patients the abnormality was not seen in both sets of radiographs. They attribute the lack of radiological reliability to the changes in the muscle tone and ligamentous laxity. However, they fail to mention the position in which the radiographs were taken.

The horizontal ray lateral view taken with the patient in the supine position reveals the full extent of any abnormal slippage due to laxity of the transverse ligament as the weight of the neck muscles will force the odontoid process to separate from the anterior arch of atlas and serve as a dynamic test of integrity of the atlantoaxial joint, whereas, if the patient is examined erect or prone, the gap narrows.2 The other possible explanation for variability in the values could be due to improper technique of obtaining flexion and extension views. At the end of flexion movement, when the chin abuts against the sternum, some deflection occurs at the level of cervico-occipital junction. The maximal flexion of the upper cervical segment is obtained only by drawing the head as far back as possible and then tucking the chin in. Correct extension of the upper cervical region is obtained by drawing the head forwards as far as possible and then extending without moving the neck backward.3 The odontoid peg has three ossification centres4 and not four centres as mentioned by the authors.

Computed tomograms of the craniovertebral junction should be done before rejecting radiographs of the neck as unreliable at identifying atlantoaxial subluxation.

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Abdominal pain in Henoch-Schönlein purpura

SIR,—We read with interest the report by Hu et al on the use of ultrasonography to diagnose and exclude intussusception in children with Henoch-Schönlein purpura.1 We agree with the authors that ultrasonography is an excellent, non-invasive procedure to assess for the presence of intussusception. We also agree that the incidence of intussusception in children with Henoch-Schönlein purpura is likely higher than reported.

We believe that the history and physical examination are the best ways to differentiate whether an intussusception is present. Our experience suggests that there are several kinds of abdominal pain in children with Henoch-Schönlein purpura. The most common abdominal pain is a dull, constant, periumbilical pain which is due to inflammation and bleeding in the intestinal wall and results from the underlying vasculitic process. This pain is not colicky and there are no peritoneal signs by abdominal examination. The abdominal pain associated with intussusception is characteristically colicky and intermittent. The stool may contain blood and mucus (‘red currant jelly’ stools). Other symptoms and signs of intestinal obstruction such as vomiting, abdominal distension, and increased bowel sounds may be present. An abdominal mass may be palpable, and there may be a feeling of emptiness in the right iliac fossa. Peritoneal signs are absent. This intermittent colicky pain is usually superimposed against the background of the more common dull and constant periumbilical pain. If an intestinal perforation occurs, the abdominal pain is constant, generalised, and peritoneal signs such as abdominal wall rigidity and rebound tenderness and bowel sounds are evident by physical examination. The article by Selby and Lewis is an excellent contribution to this challenge.


Our study aimed to gain some information about acute respiratory infections and we found that 24.96% of all admissions were caused by these infections. The figures were similar for central and district hospitals. In a one day study performed in 1990 in child health clinics of three districts of Portugal we found that 84% of children aged less than 2 years of age, who were attending the health centre on that day, had been admitted to hospital during the previous six months. The psychological, emotional, physical, social, and economic consequences for the child, the family, and the admitting institution that is caused by admission have been fully described and are undoubtedly a major problem in social paediatrics. The article by Spencer and Lewis is an excellent contribution to this challenge.