Correspondence

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Primary protrusio acetabuli in four generations of an Italian family

Sir,

Protrusio acetabuli is a pelvic deformity characterised by an abnormally deep or intruded acetabulum. Two different types are generally recognised: a primary or idiopathic form, and a secondary one resulting from well known recognised diseases. In the former condition, where an obvious cause is lacking, familial and racial influences on pathogenesis have been postulated. Genetic or environmental factors could be involved as well. Some cases suggest the possibility of heritability, though data about this have been very few so far.1-5

We have observed a family in which several members in four generations were affected (fig 1). The deformity was present in both hips and caused stiffness and limitation of abduction in all the patients. The symptoms started during the second or third decade and became severe in older persons because of ankylosis and pain. No biochemical or metabolic abnormalities were found. Three of nine affected members required surgical treatment (asterisks in fig 1) with satisfactory results. Physio-

![Family pedigree](image1)

![Radiographic features](image2)

**FIG 1** Family pedigree.

**FIG 2** Radiographic features of some affected members of the family. Ages when x-rays were taken: 61 years (II.1 before treatment); 30 years (III.1); 27 years (III.2); 25 years (III.3).
therapy has been suggested for all the affected and they have been advised to avoid excessive physical stress. X-ray analysis showed radiological signs typical of the syndrome, including deep or protrusio acetabuli, peculiar ‘tear drop’ sign, and increased angle of Wiberg (about 50°, in contrast with a range between 20 and 35° in normal subjects). It is noteworthy that in the same family deep and protrusio acetabuli have been observed as well (III.2) (fig 2). The two forms could be different expressions of a single gene, as also suggested by the affected family reported by MacDonald.5

The inheritance pattern in our cases is in accordance with an autosomal dominant gene with complete penetrance.

References
1 Rechtman AM. Etiology of deep acetabulum and intrapelvic protrusion. Arch Surg 1936;33:122.

The Gordon syndrome
Sir,

In a recent report by Halal and Fraser in the Journal (1979; 16: 149–50) the second family with the Gordon syndrome was recorded. We have recently evaluated a 5-year-old boy with findings consistent with this syndrome. In addition to cleft palate, camptodactyly of the 4th and 5th fingers bilaterally, and club foot, he had short stature, short lingual frenulum, small mouth, short neck, and mild kyphoscoliosis. Both testes were in the scrotum. He had a severe articulation disorder and hypernasal speech. A cineradiographic study of the oral and pharyngeal structures indicated that velar length and function was adequate for normal speech. Although the lingual frenulum was short, all articulatory contacts could be achieved. No hearing loss was present. Routine laboratory investigations and chromosome analysis were normal. Dermatoglyphic studies showed no unusual findings except that he had been unusually large whorl patterns on the fingertips with extralimital triradii. Hand pattern profile analysis, which was difficult to carry out because of camptodactyly, was interpreted as normal. An intravenous pyelogram was normal. However, fusion of the posterior elements of the lumbosacral junction of L5 to S1 on the right was noted.

The mother, of American Indian ancestry, was 23 years of age at the time of the patient’s birth and the father 29. The pregnancy was at term and uncomplicated. A claim that the mother was an alcoholic and drug abuser was made but could not be substantiated. There was no one on the maternal side with similar birth defects, but a paternal cousin had a cleft lip and another cousin was reported to have a club foot. Neither of these patients was available for study.

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