oesophagus, intestinal tract, liver, pancreas, spleen, or kidneys.

The present patient is another example of non-chromosomal association of holoprosencephaly and postaxial hexadactyly limited to the hands. It is interesting to note that in the patient of Young and Madders\(^1\) and in the present case the postaxial polydactyly is limited to the hands. In trisomy 13 a holoprosencephaly sequence may be present and is associated with postaxial hexadactyly of the hands and feet. As discussed by Young and Madders, the association of holoprosencephaly and postaxial polydactyly of the hands does not fit into any hitherto delineated MCA syndrome.

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Reference


Holoprosencephaly, ventricular septal defect, and postaxial polydactyly in a human embryo

Sir,

In the November 1987 issue of the Journal, Young and Madders\(^1\) reported a stillborn male infant with holoprosencephaly, cardiac anomalies, and postaxial polydactyly. This is a new dysmorphic syndrome which has not been fitted into any established clinical entity.

We report here a six week male embryo with a similar syndrome. The embryo was studied after induced abortion on a healthy 25 year old woman for socioeconomic reasons (Eugenics Protection Law of Japan). Her husband was 31 years old and the couple was non-consanguineous. Their family history was unremarkable. They had one normal child and one previous induced abortion. The mother had regular menstrual cycles and her pregnancy was uneventful. She took no alcohol, cigarettes, or medication during pregnancy. The pregnancy was terminated on the 45th day after estimated ovulation by dilatation and curettage.

The embryo was at Carnegie stage 20\(^2\) and its crown-rump length was 18.8 mm. Externally, ethmocephaly with a proboscis and closely set eyes

FIG 1 AP view of the embryo. Note the proboscis and closely set eyes.

FIG 2 Upper (a) and lower (b) limbs showing supernumerary digits on the postaxial side (arrows).
Comparison of the clinical signs show that although the families are unrelated, the affected children present with very similar features, which are summarised in the table. It seems that this represents a distinct syndrome which is inherited as an autosomal recessive disorder. Additional cases are needed for further delineation of the syndrome.

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References


Are ‘upper’ and ‘lower’ neural tube defects aetiollogically different?

SIR,

The idea that anencephaly and spina bifida cystica are aetiology related, since each occurs with increased frequency in sibs of probands with the other,† may need reconsideration. In two studies,‡,§ families of probands with neural tube defects were classified according to whether the lesion was ‘upper’ (anencephaly and thoracic spina bifida, which arise by failure of neurulation) or ‘lower’ (lumbar and sacral, which represent errors in canalisation). All of 25 sib pairs were concordant as to level, suggesting that the two types are genetically different.¶,∥ T11 to T12 was considered the dividing point between upper and lower lesions.

In contrast, during an epidemiological study of neural tube defects in Newfoundland,¶ we noted 11 pairs of affected sibs, without other malformations, of which four were discordant for level of lesion.

In family A, a girl was born with a lumbosacral myelomeningocele involving L1 to S3, with diastematomyelia of L1 (lower), followed by a sister with anencephaly and cervical spina bifida (upper). In family B, a girl with a lumbosacral myelomeningocele involving L1 to S3 (lower) was followed by a brother with a myelomeningocele of T10 to S3 (upper). In family C, the first boy was born with a tuft of hair in

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Syndactyly, ectodermal dysplasia, and cleft lip and palate

SIR,

Recently, each of us reported independently in the journal a family in which two children were affected with a syndrome which seemed to be new.1 2

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# Table. Main clinical features of the syndrome.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Zlotogora et al†</th>
<th>Ogur and Yuksel‡</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>Male</td>
<td>Male</td>
</tr>
<tr>
<td>Cleft lip and palate</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Partial syndactyly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fingers</td>
<td>3-4</td>
<td>2-3</td>
</tr>
<tr>
<td>Toes</td>
<td>2-3*</td>
<td>2-3</td>
</tr>
<tr>
<td>Ectodermal dysplasia</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Abnormal hair</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Pili torti</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Thickenred, dry skin</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Abnormal teeth</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Normal nails</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Mental retarduation</td>
<td>Mild†</td>
<td>Moderate</td>
</tr>
<tr>
<td>Consanguineous parents</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

- = Not present in the child. NR = Not relevant since the child died very young.
†Owing to an error in the original article the syndactyly of the toes was reported to be between toes 3 and 4.
‡Appeared at the age of four years, mainly on the palms and soles.
§At the age of four years the child had caught up most of the delay and was only mildly retarded. Speech was very delayed.
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K Shiota and T Tanimura

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