Case report

Picture-story

Body stalk anomaly

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(Index words: Post-mortem findings, ultrasonography to avoid unnecessary caesarian section).

Body stalk anomaly is a severe body wall defect characterised by an absent or rudimentary umbilical cord, eversion of abdominal viscera, hindgut anomalies and severe skeletal deformities (1,2,3). It is a rare sporadic condition with an incidence of 0.07% in live born infants (1).

Body stalk anomaly was seen in two neonates born at term, who died within one hour of birth. One was a spontaneous vaginal delivery, the other was delivered by emergency caesarian section. Prenatal sonography had not been done in both. The infants had absence of umbilical cord, eversion of liver and intestines, kyphoscoliosis, talipes equinovarus, imperforate anus and hypoplastic lungs, and were directly adherent to the placenta by their abdominal walls (Figure). One had hypoplastic left heart syndrome and a cystic right kidney. The other had indeterminate external genitalia with bilateral streak gonads.

Figure. Body stalk anomaly. Eversion of abdominal viscera, and severe kyphoscoliosis.

The umbilical cord is derived from a small mass of mesoderm (body stalk), which attaches the embryo to the wall of the blastocyst. Abnormal development of the body stalk results in an absent or rudimentary umbilical cord. The fetus is directly attached to the placenta. Abdominal viscera lie in a sac outside the abdominal cavity covered by amnion (1). The karyotype is usually normal (4).

Prenatal ultrasonography will help to distinguish body stalk anomaly from omphalocoele and gastroschisis — two other conditions with eversion of abdominal viscera (2,3,4,5). This is important because body stalk anomaly is uniformly fatal (1,3), whereas the other two are not. The short umbilical cord may mimic cord compression and result in fetal distress, an indication for caesarian section (6). Prenatal diagnosis of body stalk anomaly will ensure avoidance of unnecessary caesarian section (3,5).

References


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