Case Report
Imperforate Anus in Symmetrical Conjoined Live Twins

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This is a case report of newly born twins. The live twins were with two separate heads and a symmetrical body, conjoined in a sagittal plane. Their thorax and abdomen were broader than singleton normal. Spines were separate in cervical regions but gradually approached each other and completely fused at sacrum. Single perineum had an imperforate anus.

Key words: Conjoined twins, Siamese Twins, Imperforate anus.

Qu'ran invites us time and again to look at our origin. Qu'ran says “Has a period in (this) Age not come over every man, when he was nothing worth mentioning.” 76:1. We created man from drop of (semen) thickened fluid to test him 76:2. Then we made sperm into clot of blood, next We turned the clot into (fetus lump) and then turned lump into bones and clothed bones with flesh and then produced it a new creation. 23:14.11 Embryology reminds us to have a look at this and other similar sayings of the holy Qu'ran.

Sperm fertilizes ovum to form fertilized egg. Fertilized egg or zygote goes through series of changes to form blastomere, morula, and than embryo. Embryo goes through bilaminar and trilaminar germ disc stages. Finally period of organogenesis gives proper shape to the fetus. Either fertilization of more than one ova or splitting of fertilized ovum leads to formation of dizygotic or monozygotic twins respectively.

Early in embryonic life there is a common chamber-cloaca into which opens the hind gut and allontoius. The cloaca becomes separated into the bladder and postallontotic gut (rectum) by the down growth of septum. About this time an epiblastic bud, the proctodaeum, grows in towards the rectum. Normally fusion between the two occurs during the third month of intrauterine life.

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The mother of these twins came to the labor-room with the obstructed labor. Cesarean section revealed an astonishing result to every one; a wonder twin with two heads; one slightly less developed than the other and facing to the right one. They had separate necks, below which the bodies were conjoined with each other. (fig 1). There was a central rudimentary limb protruding in between the necks. This limb had at least one joint but no recognizable limb seen. Chest was broader with separate lungs; normal on lateral sides and compressed on the conjoined side. Hearts were two and crowded. Abdomen was broader than the singleton normal, superiorly but gradually narrowed inferiorly to the pelvis as normal. Cranially spines were felt separate. Sacrum was only one. Twins had fully grown upper limbs on either side with recognizable normal upper arms, forearms and hands. There were only two lower limbs; one on either side having short thigh, fully developed leg and foot. C.T. Scan showed bilateral short femur (Rhizomelic Dwarf) (fig). Examination of perineum disclosed “imperforate anus”. It was of low variety (fig). Y-V anoplasty was done. Baby and mother were kept for three days in the hospital and then discharged. They were followed up. After two months both twins suffered from aspiration pneumonia and died. Death of first was fifteen minutes earlier than that of second.

Figures Rhizomelic Dwarf
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Discussion:
Splitting of zygote during later stages of development may result in an abnormal or incomplete separation of axial area of germ disc. Incomplete separation of embryonic axis results in conjoined (Siamese) twins. They are classified as thoracopagus, pyopagus and craniopagus. All varieties are rare. 29% of twins are rewarded with live births. Conjoined and Siamese are utmost rare variety and usually not compatible with life. It leads to intrauterine death. It is wonder to have a look at one. But misery over misery was to have an imperforate anus.

Imperforate anus develops due to non rupture of cloacal membrane in intrauterine life. One infant in 45 000 is born with the imperforate anus. 1.5% of patients with neural tube defects have imperforate anus.

Broadly classified, imperforate anus is characterized as high or low variety depending on whether the rectum ends above levator ani muscle or partially descends through it.

Prenatal diagnosis is of paramount importance in the management of delivery and prevention of peripartum mortality. Ultrasound and MRI help in prenatal diagnosis of these cases.

Separation of twins into two is a big anesthetic and surgical challenge. While operating to separate Jodie and Mary, they died. This issue has rose controversies about the treatment and its legal consequences.

Conclusion:
It is wonder to look how beautifully Almighty Allah created us and when there is any congenital defect how helpless we are yet to manage! Even we do not remember or confide in Him!

References:
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