Sirenomelia is a rare lethal fetal anomaly that can be accurately diagnosed in the late first trimester or in the early second trimester with USG. Reports of antenatal diagnosis before 20 weeks of gestation are very rare in the literature. One case of sirenomelia diagnosed at 18 weeks of gestation is described and discussed briefly. An early diagnosis with antenatal USG helps to plan treatment.

**Case Report**

A 22-year-old primigravida with 18 weeks of amenorrhea was referred for routine antenatal USG. Her personal and family history were unremarkable. There was no history of any medication or infection in the early period of pregnancy. The scanning was performed using a 3.5–5 MHz high-definition transabdominal transducer and a 6.5–10 MHz endovaginal transducer (Aloka Prosound 5000). This showed an active fetus surrounded by moderate volume of liquor. The placenta, head, upper trunk, upper vertebrae, and the stomach shadow were normal. The renal and urinary bladder shadows were not discerned.

The lumbar and sacrococcygeal vertebrae were very poorly formed and were disfigured. Distal to this, the pelvic bones were represented by specks of calcification [Figure 1]. The femora were fused proximally and forked distally [Figure 2]. Two long bones were seen distally, representing the tibiae, with surrounding muscle mass. The rudimentary feet appeared as a small irregular soft tissue mass with a dense echoic speck at the distal end of the fused limbs [Figure 3].

These USG features were consistent with a diagnosis of sirenomelia. The parents opted for therapeutic abortion. The abortus showed the typical morphological features of sirenomelia.

**Discussion**

Sirenomelia (also known as mermaid deformity, symmelia, sympus, symposia, uromelia, and monopodia) is an invariably lethal anomaly with a reported incidence of 1 in 60,000–100,000 live births. Around 300 have been reported in the world literature, of which 13 cases have been from India. Most of them were diagnosed after...
with bilateral renal agenesis. In a recent report, the authors diagnosed sirenomelia at 10 weeks of gestation and confirmed it at 15 weeks. The fetus in our report, at 18 weeks, showed proximally fused femora and separate tibiae. The fibulae were absent. The differential diagnoses include caudal regression sequence, especially among diabetic mothers, sacral agenesis like cloacal extrophy and the VACTERL association (vertebral defects, imperforate anus, cardiac anomalies, tracheo-esophageal fistula, radial and renal dysplasia, and limb anomalies). Recent advances in the understanding of embryonic axial mesoderm patterning suggest that sirenomelia represents the most severe manifestation of the caudal regression spectrum, which also shows similar features. The importance of an early antenatal USG is highlighted by the fact that this is an invariably lethal condition and therapeutic abortion can be carried out earlier.

**References**


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