OIES complex associated with IVF: a case report

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OEIS complex (Omphalocele, Exstrophy, Imperforate anus, and Spine abnormalities) is a rare defect with estimated incidence of 1 in 200,000 – 400,000 live births. We present a case that demonstrates the imaging features of OEIS complex.

A 35 years old pregnant, gravida 3, presenting with in vitro fertilization (IVF) dichorionic diamniotic pregnancy was referred at 13.4 weeks because of a suspected multiple defects in twin B and intrauterine death in twin A.

The couple had history of family: nondeveloping and ectopic pregnancies. At ultrasound scans at Voluson E8, the amnionicity and heartbeat is not visualized twin A was confirmed. Twin B presented several following anomalies: omphalocele, bladder extrophy, rectal dilation and spina bifida with meningomyelocele in the sacrococcygeal level, club foot. Color Doppler revealed perivesical umbilical arteries along the cystic mass in transverse and sagittal views. Nuchal translucency has not been increased 1.9 mm. We suspected OEIS complex.

Chorionbiopsy was performed. Chromosomal microarray chorionic villus: at high resolution pathogenic variation in the number of DNA copies not detected. Given the bad prognosis for the fetus, that pregnancy was terminated.