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CASE 2017-6

Submitted by:

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Clinical History: A 35-year-old G3P2 at 20w5d of gestation was referred for Maternal-Fetal Medicine consultation. A genetic sonogram revealed multiple congenital anomalies including dolicocephaly, elongated and parallel lateral ventricles, choroid plexus cysts, nuchal thickening, frontal bossing, midfacial hypoplasia, hypertelorism, bell-shaped chest, multiple echogenic intracardiac foci, and bilateral clubfeet. X-ray examination prior to autopsy showed absent midphalanx of 5th finger of hands, clefted lumbar vertebral bodies and 11 ribs. A male fetus was delivered vaginally at 22w5d of gestation.

Autopsy findings: Body length: 32 cm, Body weight: 526 g; Brain weight: 154.3 g; Right and left feet length were 2.9 and 3.4 cm respectively. Autopsy examination confirmed imaging findings and revealed vascular malformations in various organs and brain abnormalities (brainfigure 1, coronal section of brain- figure 2)

Material submitted: Images of brain, including coronal section, and H&E sections of the cerebrum

Points for discussion: 1. Neurological manifestations of this syndrome

2. Pathogenesis and genetic pathway