Hydrocephalus anomaly of the central nervous system: the importance of ultrasound diagnostics

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Objective
A case of prenatally diagnosed fetal anomaly ultrasound - Hydrocephalus, established in the 18th week of gestation (NG), which was interrupted with induced delivery.

Methods
This is a case of fetal congenital anomalies – hydrocephalus, diagnosed prenatally by ultrasound examination. Retrospective analysis of medical records of University of Novi Sad, Medical faculty, Clinical centre Vojvodina, Department of obstetrics and gynecology Novi Sad, Serbia. were used to provide the information for this case.

Results
The patient aged 25 years, multipara, due for termination at 18 weeks gestation due to a diagnosed fetal malformation - hydrocephalus. Ultrasonography showed evidence of brain abnormalities: ventriculomegaly, maximum dilated chamber, extremely retracted and small choroidal plexuses compared to the dilated lateral ventricle, with bilateral cysts. Earlobes were low set, with prominent forehead (“frontal bossing”). Due to fetal malformations, termination by application of 2 Prepidil gel and ampoules Prostin 15M intramuscularly were administered. After termination, ERPC was performed. The patient was discharged from the hospital in good general condition following day. Autopsy of fetus found signs of stillbirth and premature birth, total collapse of lungs and initial autocatalytic changes in all organs and tissues. Hydrocephalus was also identified. Histopathological examination of the products of conception showed fetal membranes with common histomorphological characteristics and Chorionic villi with adequate vascularization for gestational age. The umbilical cord contained two umbilical blood vessels.

Conclusion
With the development of prenatal diagnosis, there is increase of the number of early diagnosed fetal anomalies, with anomalies of CNS among them. This has reduced the number of children born with these conditions.