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Fetal MRI in early diagnosis on rare disease of brain

Hamid Reza Edraki

Shahid Beheshti University of Medical Sciences and Health Sciences, Iran

A practical hands-on approach to the use of MRI techniques is provided to promote further fetal pathological conditions and methods of prenatal MRI diagnosis. The implications of fetal MRI is based on medico-legal and ethical view points has significantly considered. MRI of fetus will be done in the second and third trimester of pregnancy since fetus in the first trimester and intravenous contrast study is not applicable for the fetal MRI. Gestational age is estimated on the basis of the time of the last menstrual period. Placenta previa, placenta accreta, placenta hemorrhagia or hematoma. Oligoamnion or hydroamnion are detected in standard study of fetal MRI as well as the detection of congenital deformity and delay of growth (IUGR) which named equale to disease is the main and unique approach through the surveillance: CNS (brain and spine), abdominal and pelvic, musculoskeletal, cardiovascular. Sequences are based on (Fiesta, SPARE -SS-TSE T2, FSE T2, DWI and T1 FLAIR). It is advised for the metabolic disorder, MR spectroscopy is indicated as brain study in MRI in the following relevant cases: Hydrocephalus-Agenesis of corpus callosum, atrophy, hypoxemia, cyst, tumor, chiari malformation-Dandy walker cyst, leukoencephalopathy, tumor (medulloblastoma, papilloma, glioma, ependymoma), colloid cyst, germionoma, dermoid, epidermoid, lissencephaly, schisencephaly, holoporoencephaly. Of 137 women, 100 (60%-70%) were diagnosed with rare cerebral diseases. History of congenital genetically disorders in familial marriages, presents approved findings of brain lesions in USG or sonography screening study.

Biography

Hamid Reza Edraki was Graduated in Neuro-Radiology (MRI) from LMU University (Munich-Germany). He has worked as an Associate Professor at Shahid Beheshti Medical University in Iran and Managing Director at Rare Diseases Foundation of Iran and the Chief Radiologist at RADOIR's Parsian Medical Center. He has achieved many outstanding academic screening researches on rare diseases and its types in their broad aspects.

international@radoir.org

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