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Idiopathic arterial calcification of infancy: A rare autosomal recessive disease case report

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Idiopathic arterial calcification of infancy is a rare autosomal recessive disease, characterized by deposition of calcium along the internal elastic membrane of arteries, accompanied by fibrous thickening of the intima which causes luminal narrowing. Here we are reporting a case of idiopathic arterial calcification of infancy in a Saudi female newborn of non-consanguineous pregnant woman who had polyhydramnios. The newborn baby had severe respiratory distress, systemic hypertension and persistent pulmonary hypertension of newborn. She was admitted to Neonatal Intensive Care Unit, where she was ventilated and proper treatment was provided. Molecular genetic testing was positive for mutations of ectonucleotide pyrophosphatase/phosphodiesterase 1 gene which is reported in 80% of cases of idiopathic arterial calcification of infancy. The baby died at about 5 month of age because of myocardial ischemia and cardiorespiratory arrest. Idiopathic arterial calcification of infancy should be considered in any newborn who presented with persistent pulmonary hypertension of newborn, severe systemic hypertension and echogenic vessels on any radiological study. Calcifications of large and medium sized arteries are important diagnostic finding.

Biography

Tarek Hamed Attia has completed his MBBCh, Masters in Pediatrics and MD in Pediatrics from Zagazig University School of Medicine, Egypt. He is currently a Professor of Pediatrics, Zagazig University, Egypt. He is a Member in Research Board Pediatrics and Hematology and he has many publications in Pediatrics and Hematology. He is also a Chairman for Postgraduate Education and Examination Board in Pediatric Department, Zagazig University. He has published many papers in reputed journals and has been serving as an Editorial Board Member of reputed journals. He has attended many international conferences as speaker and as chairperson.

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