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Educational Abstract

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A Case Of Pial Fistulae Treated By Arterial Feeder Embolization.

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Learning objectives: Pial AVF is a rare vascular anomaly which can be treated by endovascular arterial feeder embolization. Correct diagnosis with careful and proper strategic embolization planning is inevitable for successful treatment results.

Background: Pial AVFs are rare vascular anomalies and till date only approximately 150 cases are reported.

Findings and procedure details: We report a case of pial AVF diagnosed and treated by arterial feeder embolization. A 18 months old baby presented with complains of generalized tonic clonic seizure since birth for imaging and treatment. MRI shows a pial fistulae supplied by branches from the right MCA with dilated draining veins. The finding was confirmed on digital subtraction angiography. The lesion was treated by coil embolization of the two feeding arteries followed by embolization with onyx. Post procedure angiography show complete resolution of the fistulae. The baby recovered uneventfully and was discharged.

Conclusion: The treatment option is controversial, it difficult to precisely deliver the desired embolus to the fistulous point. The usual accepted embolization strategy is Coil placement of the venous sac followed by liquid embolization to the residual fistulae. We however did a coiling of the artery feeder followed by embolization of the residual fistulae.