

## **Plasma exchange in Acute Poliradiculoneuritis during pregnancy**

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Acute Poliradiculoneuritis (AP) is an autoimmune demyelinating neuropathy with an incidence 1-3 cases per 10000 people in the general population. It is rare in pregnancy and can occur during all trimesters of pregnancy and in the post partum period. Plasma exchange ( PE) and intravenous immunoglobulin (IVIg) administration have been shown to have equal efficacy in reducing the progression and severity of disease. We report 2 cases of pregnant females, diagnosed with AP and treated with PE. Case 1: 24 years old, Gravida 2 Para 1, 18 weeks of gestational age, twin pregnancy, She presents 10 days history with all features of flaccid tetraparesis, with grade 2 power in lower limbs and grade 4 power in upper limbs. Case 2: 28 years old, Gravida 2 Para 1, 12 weeks of gestational age. She presents 4 days history of flaccid tetraparesis with grade 3 power in lower limbs and grade 4 power in upper limbs PE was done for both on alternate days, with a total of three sessions. The first patient was taken up for Cesarean Section , the second one gave birth naturally, both with no problems during post partum period One year after the hospital discharge were seen no neurological deficits. Discussion: Acute Polyradiculoneuritis is a rare pathology during pregnancy. The higher incidence is during the third trimester of pregnancy and 2 weeks post partum. In 20% of patients persist the neurological deficits one year after diagnosed and maternal mortality is 7% (compared with non pregnant patients - 4%). Conclusion: Plasma change during pregnancy is a safe procedure for the mother and the fetus, and decreases the risk of maternal mortality and disability.