Distinct Pattern of Neuro radiological Manifestation in Posterior Reversible Encephalopathy Syndrome
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Case Report
We report a 28 years-old Female G1P0 at 35 weeks presented with headache, right sided weakness and facial deviation for 2 days. On Examination: Blood Pressure was 210/105mmHg, with NIHSS score of 5 and right sided hemiparesis. CT scan Head was done which showed bilateral Gangliocapsular hypodensities with large left Gangliocapsular bleed showing intraventricular extensions along with bilateral parieto-occipital predominantly subcortical subtle hypo densities, suggestive of PRES which were further confirmed by MRI findings. Brain MRI showed bilateral occipital, parietal, frontal cortex and subcortical white

Figure 1: CT scan Head Axial Images: show bilateral gangliocapsular nearly symmetric hypodensities with large left gangliocapsular bleed showing intraventricular extension

Figure 2: MRI Head Axial Images 1: T2WI (left) and FLAIR (right) show abnormal hyperintense T2/FLAIR signal intensity involving bilateral basal ganglia, internal capsules and lateral aspect of both thalami. The large left gangliocapsular bleed is again seen demonstrating hypointense T1WI and dark T2WI signal intensity of deoxyhemoglobin (acute bleed).
The blood pressure was uncontrolled even after anti-hypertensive medications; therefore, immediate Caesarian Section was performed. Patient improved after management with C/Section, IV fluids, antiepileptics and monitoring of blood pressure. If recognized and treated early, the clinical syndrome commonly resolves within a week. High index of suspicion and prompt treatment can reduce the morbidity and mortality and pave the path for early recovery.

With sudden development of headache and bilateral vision loss with elevated blood pressure, an initial diagnosis of ischemic stroke, cerebral hemorrhage and cerebral venous thrombosis, PRES and hypertensive emergency with retinal hemorrhage. A normal fundus examination essentially ruled out retinal hemorrhage, while the reversibility of symptoms with characteristic MRI findings led us to a diagnosis of PRES.

PRES is a reversible neurological entity characterized by the presence of white matter edema affecting the occipital and parietal lobes\(^1,2\). The exact incidence of PRES is unknown. Patients with renal transplantation undergoing calcineurin inhibitor therapy develop PRES syndrome in about 4–8% of the cases\(^1,2\). It can occur at any age and most commonly affects females. This probably reflects the fact that one of the common causes of PRES is pre-eclampsia/eclampsia developing during pregnancy\(^4\). Pre-eclampsia and eclampsia are common medical disorders affecting pregnancy with significant maternal and fetal morbidity and mortality. Hypertension and proteinuria are hallmarks for the diagnosis of pre-eclampsia, whereas seizures are typical of eclampsia. Pre-eclampsia/eclampsia usually occurs between 20 weeks of pregnancy to 48 h postpartum. The term late post-partum eclampsia (PPE) is used when eclamptic events occur between 48 h and 4 weeks after pregnancy. A large observational study suggested that late PPE involves about 14% of cases of eclampsia\(^5,6,7\).

References