

International Journal of Medical Science and Innovative Research (IJMSIR) IJMSIR : A Medical Publication Hub Available Online at: www.ijmsir.com

Volume – 3, Issue –1, February - 2018, Page No. : 224 - 225

Rear Case of Hemorrhagic Posterior Reversible Encephalopathy Syndrome

Dr. Omar Farooq¹, Dr. Irfan Gul², Dr. Aamir Ahmad Kanth³, Dr. Muzafer Wani²

¹Associate professor Department of Medicine Government Medical Collage Srinagar

²Registrar Department of Medicine Government Medical Collage Srinagar

³Post Graduate scholar Department of Medicine Government Medical Collage Srinagar

Correspondence Author: Dr. Irfan Gul, Registrar Department of Medicine Government Medical Collage Srinagar

Type of Publication: Case Report

Conflicts of Interest: Nil

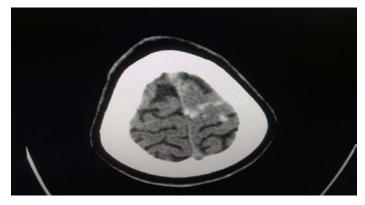
Abstract

Posterior reversible encephalopathy syndrome [PRES{also known reversible posterior as leukoencephalopathy syndrome}]presents with rapid of symptoms including headache, onset altered consciousness and visual disturbance.Hemmorhage is known to occur in PRES though rarely. Overall incidence of hemorrhage is 15.2%. Three hemorrhage types are known to occur in PRES with equal frequency which includes minute focal hemmorhage, sulcul SAH and focal hematoma.we describe a case of postpartum female who presented with PRES with secondary sulcal SAH.

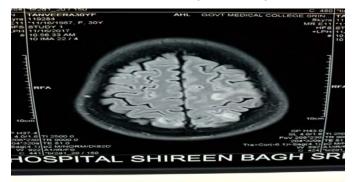
Case Presentation

30 year old female with no underlying comorbidity, recently delivered fourteen days back under spinal aneasthea presented with four days history of headache and one day history of blurring of vision followed by two episodes of Generalized Tonic Clonic Seizure to medical emergency department. On clinical examination patient was in post ictal state with planters bilateral up going and blood pressure of 180/110 .Patient was given loading dose of levetirectum and labetalol 40 mg intravenous. Neuroimaging and baseline biochemical investigation were ordered. Non Contrast CT of brain showed sulcal Subarachnoid Hemorrhage. Which was confirmed by CSF showed xanthocromia. All biochemical investigation were within normal limits except urine which shows albumin MRA, MR Venography were normal.MRI brain was suggestive of PRES.Diagonosis of PRES with SAH was made. Patient was managed with levetirectum, hydration and Telimisarten

Picture no 1 NCCT head showing sulcal SAH(subarachnoid hemorrhage)



Picture no 2 MRI Brain showing hemorrhagic (PRES)



Posterior reversible encephalopathy syndrome (PRES) is a clinic radiological entity characterized by variable association of consciousness impairment, seizure activity,

Dr. Irfan Gul, et al. International Journal of Medical Sciences and Innovative Research (IJMSIR)

headache, visual symptoms, nausea, vomiting and focal neurological signs^{1,2,3,4,5}. This condition has been designated by a variety of names (reversible posterior leukoencephalopathy syndrome, reversible posterior cerebral edema syndrome, and reversible occipital parietal encephalopathy. The cerebral imaging abnormalities are often symmetric and predominate in the posterior white matter^{1,2,6}. PRES can develop in association with a vast array of conditions. However, what over be the underlying cause, the main abnormality is cerebral vasogenic edema, the pathogenesis of which is still under debate.^{1,2} PRES is typically reversible once the cause is removed. However, patients with severe manifestations of PRES, such as coma and/or status epilepticus, may require admission to the intensive care unit (ICU).⁹,¹⁰ Moreover, permanent neurological impairmentor death occurs in a minority of patients⁵,⁷,⁸. Hemorrhage in PRES is very rare. Three types of hemorrhage occur in PRES including minute hemmorhage, sulcul subarachnoid hemorhage,focal hematoma. The incidence of hemorrhage in PRES is reportedly 15.7The purpose of this case report is to bring attention to the fact that PRES is associated with secondary SAH and this makes it one of the important differentials in case of postpartum seizures.

References

1. Bartynski WS (2008) Posterior reversible encephalopathy syndrome, part 1: fundamental imaging and clinical features. AJNR Am J Neuroradiol 29: 1036– 1042

2. Bartynski WS (2008) Posterior reversible encephalopathy syndrome, part 2: controversies surrounding pathophysiology of vasogenic edema. AJNR Am J Neuroradiol 29: 1043–1049

3. Hinchey J, Chaves C, Appignani B, et al (1996) A reversible posterior leukoencephalopathy syndrome. N Engl J Med 334: 494–500

4. Schwartz RB, Jones KM, Kalina P, et al (1992) Hypertensive encephalopathy: findings onCT, MR imaging, and SPECT imaging in 14 cases. AJR Am J Roentgenol 159: 379–383

5. Schwartz RB, Bravo SM, Klufas RA, et al (1995) Cyclosporine neurotoxicity and its relationship to hypertensive encephalopathy: CT and MR findings in 16 cases. AJR Am JRoentgenol 165: 627–631

6. Casey SO, Sampaio RC, Michel E, Truwit CL (2000) Posterior reversible encephalopathy syndrome: utility of fluid-attenuated inversion recovery MR imaging in the detection of cortical and subcortical lesions. AJNR Am J Neuroradiol 21: 1199–1206

Lee VH, Wijdicks EF, Manno EM, Rabinstein AA (2008) Clinical spectrum of reversibleposterior leukoencephalopathy syndrome. Arch Neurol 65: 205–210

8. Burnett MM, Hess CP, Roberts JP, Bass NM, Douglas VC, Josephson SA (2010) Presentationof reversible posterior leukoencephalopathy syndrome in patients on calcineuri inhibitors. Clin Neurol Neurosurg 112: 886–889

9. Servillo G, Striano P, Striano S, et al (2003) Posterior reversible encephalopathy syndrome(PRES) in critically ill obstetric patients. Intensive Care Med 29: 2323–2326 10. Kozak OS, Wijdicks EF, Manno EM, Miley JT, Rabinstein AA (2007) Status epilepticus asinitial manifestation of posterior reversible encephalopathy syndrome. Neurology 69:894–897