The clinical syndrome of posterior reversible encephalopathy syndrome (PRES) is characterized by varied clinical symptomatology like headache, altered consciousness, visual disturbances, and seizures. Sometimes neurological features such as aphasia and sensory changes are also seen. Pathophysiology of PRES is attributed to autoregulatory failure and hypertension. This results in brain hyperperfusion, especially in arterial border zones that may lead to breakdown of the blood–brain barrier allowing extravasation of fluid and blood products into brain parenchyma. The incidence of chemotherapy-associated PRES is increasing nowadays. The platinum-containing regimens, Cyclophosphamide, Doxorubicin, Vincristine and Prednisone (CHOP) regimen and gemcitabine, have been implicated in the causation of PRES.

A 51-year-old lady diagnosed as a case of carcinoma colon stage IV involving lung and left adrenal metastasis was initiated with palliative chemotherapy with FOLFOX-6 chemotherapy infusion regimen that consisted of 5-flourouracil, calcium leucovorin, and oxaliplatin and injection bevacizumab was added to cycle seven of FOLFOX-6 chemotherapy. After 2 months of initiating bevacizumab, she was presented with one episode of generalized tonic clonic seizure, headache, and visual blurring of 2 days duration and magnetic resonance imaging brain T2 fluid-attenuated inversion recovery image revealed subcortical white matter edema in bilateral frontoparietal, occipital, left temporal lobes (Fig. 1A and B), and hyperintense edema with effacement of folia in both cerebellum with nodular areas of contrast enhancement suggestive of posterior reversible encephalopathy syndrome.
Cardiovascular, respiratory, and abdominal examination was unremarkable. There was documented hypertension of blood pressure of 140/90 mm Hg but no evidence of proteinuria. Magnetic resonance imaging (MRI) brain T2 fluid-attenuated inversion recovery (FLAIR) image revealed subcortical white matter edema in bilateral frontoparietal, occipital, and left temporal lobes (►Fig. 1A and B) and hyperintense edema with effacement of folia in both cerebellum with nodular areas of contrast enhancement suggestive of PRES (►Fig. 1C). During her admission, she was given antihypertensives and antiepileptics. She was discharged on fifth day post-admission after clinical resolution of her symptoms. She was reviewed 1 week post-discharge and she had no further episodes of seizures or other CNS symptoms. In our patient, bevacizumab is most likely the causative agent for PRES. The mechanism by which bevacizumab causes PRES is hypothesized that it disrupts the blood–brain barrier through endothelial dysregulation resulting in hyperperfusion and vasogenic edema leading to failure of autoregulation. Bevacizumab-induced hypertension might also have contributed to PRES. The time between starting a medicine and the onset of PRES has not been well described. Typically, PRES occurs within the half-life of bevacizumab that is 20 days, but it can occur from 16 hours to 1 year.

There are various conditions that would be mistaken for PRES that could lead to diagnostic confusion. They include viral and autoimmune encephalitis, demyelinating disease, CNS vasculitis, central/extrapontine myelolysis, and cerebral venous thrombosis. The typical MRI features include almost symmetrical hemispheric vasogenic edema affecting subcortical white matter and often extending to the overlying cortex, with FLAIR sequences. There are three patterns of postcontrast enhancement like a leptomeningeal pattern, a cortical pattern, or a combined pattern. Patients typically show symptomatic improvement within 2 weeks of symptom onset. Prompt recognition of syndrome is critical since it is reversible with appropriate management.

Authors’ Contributions
L.R., R.C.A., and T.M.A. were involved in data collection, literature review, manuscript preparation, and final approval.

Declaration of Patient Consent
The authors certify that they have obtained all appropriate patient consent forms. In the form, the patient has given their consent for her images and other clinical information to be reported in the journal. The patient understands that their names and initials will not be published, and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

Funding
None.

Conflict of Interest
None declared.

References