

Abstract: JC virus (JCV) granule cell neuronopathy (GCN) was first described in 2005 as a clinical entity distinct from PML. However, the concept of GCN as part of a potential PML spectrum has not been fully explored. Here, we describe two GCN-PML cases in the setting of persistent CSF JC viremia and detail the postmortem findings in a third. Slow progression, low CSF JCV copy numbers, and archetype strain distinguished the postmortem case from the two in vivo cases, which were associated with the neurotropic strain and a more fulminant clinical course. Our findings not only suggest GCN is part of the PML spectrum, but it is part of the spectrum regardless of JCV genotype.

Key Words: 1. JC virus. 2. Granule cell neuronopathy (GCN). 3. Progressive multifocal leukoencephalopathy (PML)