

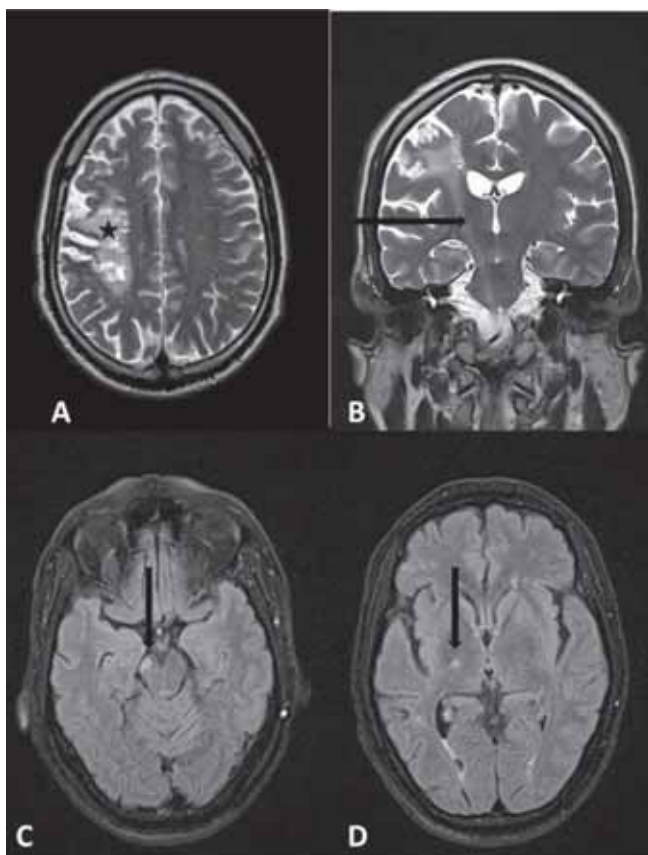
## WALLERIAN DEGENERATION OF CORTICOSPINAL TRACT FOLLOWING STROKE –INDICATOR OF WORSE PROGNOSIS

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A 55 year old female was brought to hospital with history of stroke 2 months earlier due to hypertension. On examination she had decreased power in left upper and lower limbs. MRI revealed chronic infarct in right fronto-parietal lobes (Figure 1) and thick linear hyperintense tract involving posterior limb of right internal capsule and right cerebral peduncle suggestive of wallerian degeneration seen after 2 months of insult. Wallerian de-

generation is a progressive anterograde disintegration of axons with demyelination after an injury/insult. MRI is now advanced with many newer techniques like diffusion tensor imaging(DTI) to evaluate the other neuronal pathways as well. (1) Supratentorial infarct causing wallerian degeneration is a predictor of worse prognosis. Corticospinal tract integrity can be better evaluated by fractional anisotropy value of DTI (2).



**FIGURE 1.** MRI images of brain T2 (A and B) and FLAIR (C and D) of brain in axial plane showing chronic infarct in right fronto-parietal lobes (represented by star A) and straight hyperintensity involving the posterior limb of right internal capsule and right cerebral peduncle (represented by black arrow B, C and D).

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