

Assessment of frontal lobe functions in parkinsonism syndromes

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Introduction:- Frontal lobe dysfunction is a predominant feature of progressive supranuclear palsy however it can be present in other parkinsonism syndromes also. The frontal assessment battery (FAB) is a brief tool developed to assess frontal lobe functioning at bedside.

Objective: To assess the frontal lobe functions in patients with Parkinsonism syndromes.

Methods: 110 study subjects who fulfilled the inclusion and exclusion criteria were included in the study over a period of 10 months They were clinically evaluated for frontal lobe dysfunction using the FAB battery during the ON and OFF period. Collected data was coded and entered in Microsoft Excel and data was analyzed using SPSS software version 20.

Results : The mean MMSE score of the population during the ON and OFF period was 25.09 +/-1.8 and 25.05+/- 0.8. In terms of FAB scores, the mean value of the study population during ON and OFF periods were 11.18+/- 2.9 and 10.95+/- 2.8 respectively. The mean difference between the FAB scores during the ON and OFF period was 0.24 which was statistically significant ($p=0.018$). There was significant difference between the frontal lobe dysfunction during the ON and OFF period ($p <0.05$).

Conclusion: Frontal lobe dysfunction during the ON period was found in 54.5% of the total study population In the OFF period 60% of the total study population had frontal lobe dysfunction. The maximum dysfunction was found in PSP and minimum in CBD during both ON and OFF period.

Biography:

Jidhin Raj has completed his Neurology training from the prestigious Government Medical College Kottayam. He is presently the Senior resident in Neurology in the same college. He has won various prizes in Quizes and is an avid reader. His special interests include Neurophthalmology and Movement disorders. He is one of the reviewers of Neurology Journal published by American Academy of Neurology.