

Basal Ganglionic Lesions in Egyptian children

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Abstract

Background: In childhood, the metabolic activity of the basal ganglia is greater, and they are particularly prone to injury. Damage to the basal ganglia cells may cause problems controlling speech, movement, consciousness, muscle tone, posture and cognition.

Aim of the study: to determine the etiology of basal ganglionic disorders in a sample of Egyptian children.

Methods: A cross sectional observational study was utilized on 34 patients attended at the Pediatric Neuro Outpatient Unit of Neurology department at f Al-Azhar University Hospitals during a period of one year from the beginning of November 2014 to the end of November 2015. A specialized pediatric neurological sheet, Cognitive assessment in children using Stanford-Binet Intelligence Scale and Laboratory investigations were performed. The included patients were classified according to MRI into two groups; ganglionic group that included patients with isolated basal ganglionic lesions (n=23) and para-ganglionic group that included patients with combined ganglionic as well as para-ganglionic lesions (n=11).

Results: The frequency of male patients was slightly higher than the female patients in both groups without significant difference (13 (56.5%) versus 6 (43.5%) and 10 (54.5%) versus 5 (45.5%), in ganglionic and para-ganglionic groups, respectively). acute ischemic stroke was the most frequent cause, which was found in 12 (35.3%) cases, followed by 10 (29.4%) had metabolic and infectious causes, and lastly 2 (5.9%) had toxic causes. The incidence of toxic causes (CO poisoning) was significantly higher among ganglionic group compared to para-ganglionic group (2(8.7%) versus 0(0.0%), respectively). According to brain MRI imaging, bilateral basal ganglion affection was the most frequent lesions among ganglionic group 16 (69.7%).while temporal affection (temporal were2 (18.2%) , tempo-parietal were2 (18.2%) and tempo-occipital was 1 (9.1%)) was the most frequent lesions among para-ganglionic group5 (45.5%).

Conclusion: acute ischemic stroke was the most frequent cause of basal ganglionic lesion in a sample of Egyptian children.

Biography

Hamada I Zehry has completed his M.D, PhD at the age of 39 years from Al-Azhar University, Cairo, Egypt. He has many publications that related basal ganglia lesion in adult and children.

Publication

Etiology and clinical study of basal ganglionic disorders in a sample of Egyptian children



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