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Cerebello cognitive and affective syndrome-recent perspectives

Cerebello cognitive affective syndrome (CCAS; Schmahmann's syndrome) is characterized by deficits in executive function, linguistic processing, spatial cognition and affect regulation. The causes of CCAS include cerebellar agenesis, dysplasia and hypoplasia, cerebellar stroke, tumour, cerebellitis, trauma, PSP, multiple system atrophy. This is also seen in children with prenatal early postnatal or developmental diseases. Clinical Impairment is seen in planning, set shifting, abstract reasoning, verbal fluency and working memory with distractibility and inattention.

CCAS challenges the traditional view of cerebellum being predominantly motor functions and focusses on the non-motor function also. This is because of its connection to cerebral cortex and limbic system. One case of CCAS is discussed with video segments.

Case 1: An engineering graduate student met with an accident and was unconscious for hours. He had loss of spatial cognition with perseveration, distractibility and inattention. He had spatial disorganization with visio-spatial memory affected. He had blunting of affect and inappropriate behaviour. He slowly recovered and still has cognitive dysfunction and cerebellar science. He developed depression and needed psychiatric help.

In conclusion, a unified paradigm for cognitive science with simplified neurodynamics and different levels of modelling or important. Recurrent neural network, reservoir computing psychological spaces. The open questions includes in this are:

1) High dimensional P-spaces with finler geometry needed for visualization of the mind events. At the end of the road, the physics - like theory of events in mental spaces, mind as the shadow of neurodynamics can give us an absolute scientific space for this newer syndrome in neurological literature.

Biography

Avathvadi Venkatesan Srinivasan, driven by his quest for excellence joined Madras Medical College (MMC) and received MD (General Medicine) in 1978. Later he pursued and received DM in Neurology from his alma mater. His thirst for research, skills and the latest development in Neurology made him find his way to the National Institute of Neurology and Neurosurgery, his pioneering research work on Neuroleptic Malignant Syndrome got him bestowed with the PhD degree in 2002. It made him the first ever recipient in Neurology from the Tamil Nadu Dr. M.G.R. Medical University, since its inception in 1988. His path breaking research (6 papers) in Phantom limbs, Stroke etc., with Padma Bhusan Dr. V S Ramachandran, Director, Center of Brain and Cognition, University of San Diego remain acclamatory to his undisputed authority in Behavioral Neurology and Movement disorders. He authored more than 100 scientific papers; dozens of his other work have found places in reputed medical journals and has published 12 chapters. His research papers presented, won acclaims in 60 National conferences and in 25 International conferences held in UK, USA, Japan, Australia, China, Europe and other countries. He is the only one from India to collaborate with Dr V S Ramachandran, who is the first recipient of Padma Bhusan for his contribution to Neurosciences.

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