

Dialogues in Clinical Neuroscience & Mental Health

DOI: 10.26386/obrela.v1is3.60 ISSN 2585-2795

Special Issue on Neuropsychology, from the 1st Panhellenic Congress on Neuropsychology, 27-29 April 2018, Athens, Greece.

Guest Editors: Mary H. Kosmidis, Athanasia Liozidou, Lambros Messinis,

SUCCESSFUL OUTCOMES IN SEVERE TRAUMATIC BRAIN INJURY AFTER NEUROPSYCHOLOGICAL REHABILITATION: A CADE STUDY

Karatosidi CS¹, Saleptsi E¹, Varotsi A¹, Dimos O¹, Karra N¹, Kattami C¹, Papageorgiou SG²

¹ Brain Injury Day Treatment Unit, Rehabilitation for the Disabled – ELEPAP, Athens

² 2nd Neurological Department, University General Hospital 'Attikon', AthensT

Abstract

We report a case involving a 33-year- old, right-handed, male patient who suffered a severe closed traumatic brain injury (TBI) (GCS: 5/18). Neuroimaging findings showed gliotic lesions in the left anterior temporal lobe with severe left hippocampal atrophy. The left anterior temporal lobe is involved in the organization and categorization of verbal material, speech comprehension and the left hippocampus has predominant involvement in verbal memory. Baseline neuropsychological (NP) evaluation showed impairments predominantly in attention, verbal fluency, executive function, verbal, non-verbal and prospective memory. In addition, he exhibited behavioral difficulties including irritability, misinterpretation, suspiciousness and anger outbursts. The patient underwent a holistic day treatment rehabilitation program (5 hours/day, 4 days/week) for 12 months at the Brain Injury Day Treatment Unit of ELEPAP Athens. Post NP evaluation showed significant improvement in attention, verbal fluency (semantic and phonemic), verbal, prospective and visuospatial memory and in certain domains of executive functions, such as planning, problem solving, cognitive inhibition and mental flexibility. Despite the extent of the lesions, the patient significantly improved both in behavioral and cognitive domains and eighteen months after his TBI, he was able to return to his work, and reached adequate levels of daily functionality.

 $Corresponding \ Author: Karatosidi \ CS, \ Brain \ Injury \ Day \ Treatment \ Unit, \ Rehabilitation for the \ Disabled - ELEPAP, \ Athens, \ valia _99 @hotmail.com$