

SUCCESSFUL REHABILITATION PROGRAM - INCLUDING MULTIMODAL STRATEGIES –OF A PATIENT WITH SPASTIC TETRAPARESIS DUE TO ANOXIC ENCEPHALOPATHY

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Abstract

Introduction: Anoxic encephalopathy is one of the hardest rehabilitation condition which can generate cognitive dysfunction and tetraparesis. The multimodal/ pleiotropic therapeutical approach by influencing endogenous defense activity, a fundamental biological processes of neurogenesis, neuroprotection, neuroplasticity and neurotrophicity and counteracting neurogenic inflammation and the secondary phenomenoms according to the “tooth paste theory” combined with a specific rehabilitation program could be a benefic therapeutical association.¹⁻²

Matherials and methods: A 42 years old patient without any previous medical conditions was admitted in our Neural-Muscular clinic division with cognitive impairment and spastic tetraparesis after anoxic encephalopathy. The case report presentation was approved by TEHBA Bioethics Commission (No.9181/11.April.2018). The patient was clinically, para-clinically and functionally assessed according to the standardized protocols implemented in our clinic through the assessment scales (AIS, FIM, QoL-Quality of Life, Asworth, Penn, FAC, WISCI II).

Results: The combined and complex rehabilitation program led in this specific case to a complete cognition remission and substancial locomotor regaining: at discharge the patients having independence of walking.

Conclusions: The modern ambivalent approach of spastic tetraparesis and cognitive impairment emerging from anoxic encephalopathy could be a succesful therapeutical management leading in some cases to a complete recovery.

Key words: Anoxic encephalopathy, spastic tetraparesis, rehabilitation program

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