

Predictors of good clinical outcomes and successful revascularization after thrombolysis in acute ischemic stroke

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Background : Stroke is the first cause of disability and the third cause of death. The prognosis of strokes is improved by their management within the neurovascular units by thrombolysis which represents one of the therapeutic progress whose success is conditioned by several factors. The aim of this study is to analyze the clinical and paraclinical profile of thrombolysed patients in order to determine the factors predicting success of thrombolysis. Materials and methods. —This is a comparative retrospective study on files of 125 patients admitted for ischemic stroke who benefited from thrombolysis by r-tPA. Rankin scores ≤ 2 in the third month were accepted as good functional outcomes and >2 as poor functional outcomes. Results. —The mean age was 68 years, 64% were female, an average time to admission at 105 minutes, with an average needle-holder time of 53 minutes. Their initial NIHSS score varied between 4 and 20. The success of thrombolysis was noted in 62% of patients with an improvement in the NIHSS score of more than 70% after 24 hours of thrombolysis. This success rate was explained by several parameters which influenced the success of thromolysis to varying degrees. Among these factors, we note mainly the shortness of the needle-holder delay, the presence of a radio-clinical mismatch, the site and size of the occlusion as well as the territory of the infarction. Conclusion. —Despite its limited effectiveness in certain cases, thrombolysis constitutes the first-line treatment in the management of acute ischemic stroke.

Biography

F.AZIOUAZ has completed his Medical study at the age of 25 years from Faculty of medicine of Oujda, and then she became neurologist after 4 years of residency at the neurology departement of Mohammed VI University Hospital of Oujda. She is a second year Masters student in neurobiology at the University of Alexandria. She has published more than 20 papers in reputed journals and has been serving as an reviewer of repute journal.

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