

MRT- ULTRASOUND GUIDED INJECTIONS WITH BOTULINUM TOXIN IN UPPER LIMB SPASTICITY AFTER STROKE

Marius-Nicolae Popescu, Mihai Berteanu

¹*Carol Davila University Of Medicine And Pharmacy, Bucharest, Romania, Constanta, Romania*

Introduction: Upper limb spasticity is a frequent complication and a major factor of disability in post stroke patients. Botulinum toxin type A is the best treatment for local muscle spasticity without having complications of oral antispastic medication

Purpose: Reducing the local spasticity of the upper limb flexor muscles. The quantification of results using international scale of spasticity assessment.

Method: Ultrasound guided injections with botulinum toxin type A in post stroke patients (subacute and chronic) with spasticity of the arm flexor muscles. We evaluated the patients at the time of injections, 4 weeks later, and 12 weeks later using modified Ashworth scale, modified Tardieu scale, manual muscle testing, passive range of motion.

Results: Improved results on modified Ashworth scale and the modified Tardieu scale, for manual muscle testing and passive range of motion in different evaluation phases.

Conclusions: The main effect of botulinum toxin type A injections in elbow and wrist flexor muscles was the improvement of spasticity. No adverse events related to botulinum toxin injections occurred during this study.