Title: Therapy of spasticity with botulinum toxin and assessment of the effect by Tardieu Scale

Abstract: This paper discusses paralysing effect of botulinum toxin which is used to treat spastic muscles in contemporary medicine. The paper focuses on spasticity in patients with disorder of the central nervous system caused most commonly by stroke. At first it deals with theoretical knowledge about physiology of movement, then describes active ingredient and explains the mechanism of its effect. It dedicates a lot of attention to follow-up rehabilitation as an integral part in the management of spasticity. This paper is based on two case histories. A practical part describes in detail patient’s condition before and after application of botulinum toxin. A progress of the effect was assessed during periodic meetings. These instruments were used to assess: Tardieu Scale of spasticity and Frenchay arm test. In connection with the application of botulinum toxin is emphasized active co-operation of the patient. It is an essential precondition for positive results in the management of spasticity.

Key words: spasticity upper motor neuron syndrome botulinum toxin occupational therapy Tardieu Scale Frenchay arm test kinesiotherapy