

# BOTULINUM TOXIN TYPE A OPTIMIZATION

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## BACKGROUND

There are various types of botulinum toxin type A. There is no defined relationship in the equivalent power therebetween.

## PURPOSE

- To assess the prescription profile of novel oral antiplatelet agents for acute coronary syndrome in the cardiology department of a tertiary hospital.
- Correlation with present guidelines of European Society of Cardiology.

## RESULTS

Distribution of Botox® treated indications by service was as follows: Neurology: migraines (38), spasmodic torticollis (9), blepharospasm (8) and spasticity (6); Rehabilitation: spasmodic torticollis (28), hyperhidrosis (7), hemifacial spasm (28) and spasticity (75); Dermatology: hyperhidrosis (26); Urology: urinary incontinence due to neurogenic bladder (2). Dysport® was used by the Rehabilitation service to treat spasticity (132) and spasmodic torticollis (6).

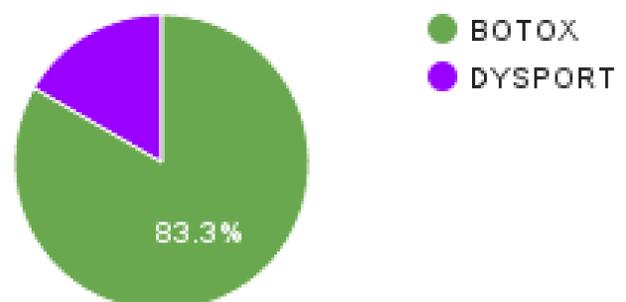
In spasmodic torticollis cases, recommended Botox® doses per patient and session is 240U, as opposed to 500U for Dysport®. Cost with Botox® is 309,2€ versus 173,6€ with Dysport®. Dysport® implies theoretical savings of 43,85% per patient. During the studied period, out of 43 patients suffering spasmodic torticollis, 6 were treated with Dysport® and 37 with Botox®.

In arm/leg spasticity cases, both were used. Recommended dosage with Botox® per patient and session is 200-500U as opposed to 750-1500U with Dysport®. Costs with Botox® would be 309,2-618,5€ versus 347,2-520,8€ for Dysport®. Hence, Botox® presents theoretical savings of 10,9% per patient for low dosages, while with Dysport® savings are 15,8% in high dosage cases.

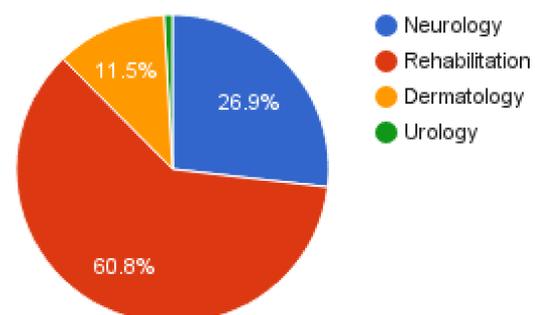
Other indications (75 patients) exclusively botox was used because it is the only toxin that has the approved indication or because it's the choice in these indications in our hospital..

## MATERIAL AND METHODS

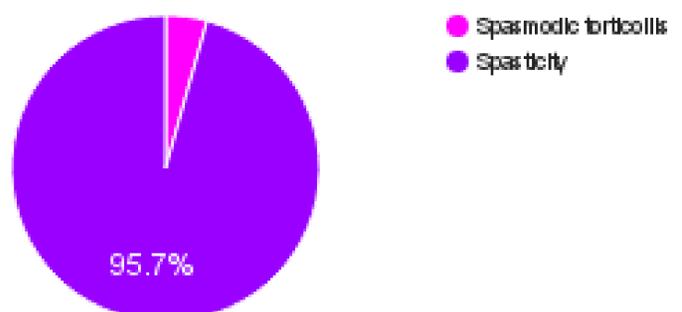
Different indications for which botulinum toxin type A was used were analyzed from January to December 2013 in a third-tier hospital.



**BOTOX/Services**



**DYSPORT/Rehabilitation**



## CONCLUSION

Botox® allows more economic dosage when few units are needed, as in the cases of blepharospasm, hemifacial spasm or minor spasticity.

For spasmodic torticollis and major spasticity, Dysport® is the most cost-effective option.