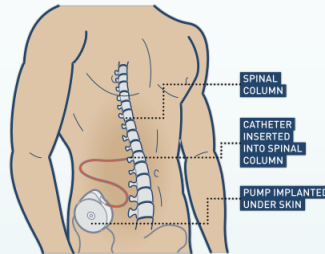


# SPASTICITY: BACLOFEN' S INTRATHECAL ADMINISTRATION

*Barbato Ilaria, Esposito Barbara, Miranda Maria Rosalia, D'Avino Angela, Spatarella Micaela, Columbano Laura, Azienda Ospedaliera Specialistica dei Colli, Napoli*

## Background

The muscle spasticity is a consequence of traumatic brain and spinal cord injuries, stroke, cerebral paralysis and multiple sclerosis. Intrathecal baclofen administration is an option to reduce spasticity.



## Aim

Evaluate the long-term efficacy on the decrease of the spasticity of this approach and improving the quality of patients' life treated by the CTO's Neurosurgery of Naples until September 2020

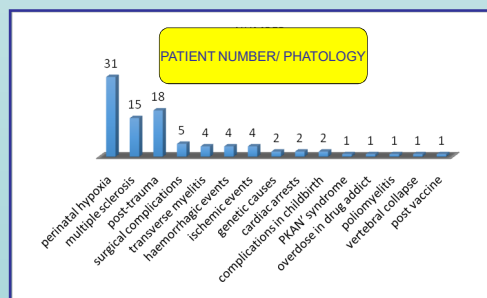
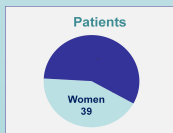
## Method

It was made an analysis of the patients medical records treated until September 2020. To evaluate the spasticity it was used the Ashworth's scale starting from grade 0 (no increase of tone) up to grade 5 (rigid limb in flexion and extension). To measure the patient's ability during personal care activities it has been submitting the Care and Comfort Caregiver survey.



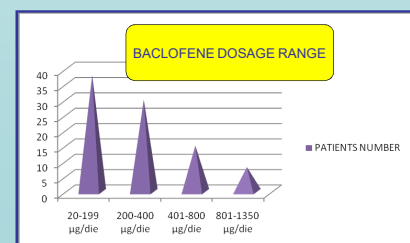
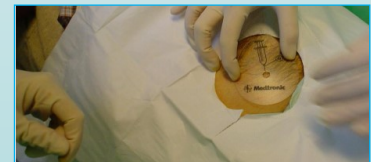
## The Care and Comfort Caregiver Questionnaire filled out by patients

Personal Care	Very Easy					Impossible					Child Is Able To Do:
	1	2	3	4	5	1	2	3	4	5	
1. Performing oral-facial hygiene (eg. brushing teeth, washing face, combing hair)	1	2	3	4	5	1	2	3	4	5	_____ %
2. Putting on shirts	1	2	3	4	5	1	2	3	4	5	_____ %
3. Taking off shirts	1	2	3	4	5	1	2	3	4	5	_____ %
4. Putting on pants	1	2	3	4	5	1	2	3	4	5	_____ %
5. Taking off pants	1	2	3	4	5	1	2	3	4	5	_____ %
6. Changing Incontinence pads or briefs (underwear)	1	2	3	4	5	1	2	3	4	5	_____ %
7. Cleaning buttocks or perineum with toiling	1	2	3	4	5	1	2	3	4	5	_____ %
8. Washing upper body	1	2	3	4	5	1	2	3	4	5	_____ %
9. Washing lower body	1	2	3	4	5	1	2	3	4	5	_____ %



## Results

The Neurosurgery treated 91 patients, including 39 women and 52 men with an average age of 42 years old. Patients received a daily baclofen dosage ranging from 40 µg to 1.350 µg. Ashworth's score gained after the follow-up is decreased by an average of 2,5 points with a consequent improvement of the quality of life, confirmed by the results of the questionnaire administered.



## Discussion and Conclusions

Intrathecal administration of baclofen, in the light of the analyzed results, represents an effective system in the treatment of spasticity and has a positive impact on improving the quality of life.

**4CPS-339**  
**M03 - Muscle relaxants**