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## EFFECTIVENESS OF INTRADETRUSOR ONABOTULINUM TOXIN A INJECTION FOR REFRACTORY ADULT ENURESIS

#### Hypothesis / aims of study

The incidence of nocturnal enuresis in children 5 years is around 15-20% while in adults the incidence is around 0.2-6%. Because of its rarity the full treatment algorithm of adult enuresis has not been established. The objective of the study is to evaluate the efficacy of intradetrusor onabotulinum toxin A (BoNT/A) injection in patients with adult enuresis refractory to anti-muscarinic medications.

## Study design, materials and methods

Adult patients who have complaint about bed-wetting during sleep and admitted to our clinic between 2014-2016 investigated and a database was created. The patients how are refractory at least two different type of antimuscarinic agent determined as a candidate for intradetrusor BoNT/A injection surgery. 100U BoNT/A injected the patients who accept the treatment. After the treatment patients followed up and the success of the treatment determined with routine phone call. Treatment success was evaluated by reduction in frequency of enuretic episodes. After the post-treatment follow-up patients were asked to enumerate the frequency of enuretic episodes between 1 and 5. 5 means cure of enuretic episodes while 1 means no difference in enuretic episodes after the injection (Table.1).

#### Table.1: Treatment Success Degrees

- 1: No benefit after injection
- 2: <50% improvement in enuretic episodes
- 3: 50% improvement in enuretic episodes
- 4: >50% improvement in enuretic episodes
- 5: Cure after injection

### Results

There are 16 patients have accepted the BoNT/A injection. 15 patients were male and 1 patient was female. The mean age was 23.3 (20-56). BoNT/A injection therapy showed improvement in 11 patients while in 4 patients there was no benefit (Table.2). Time effective time period was 11.0 (3-24) months in these 11 patients. Sacral neuromodulation therapy planned 3 of these 4 patients while 1 patient has refused further treatment.

Table.2: Patient Characteristics				
			Success	Effective Time
No.	Sex	Age	Degree	Period (month)
1	М	20	4	6
2	М	21	5	18
3	М	20	5	3
4	F	56	1	-
5	М	20	4	12
6	М	20	3	6
7	М	21	3	24
8	М	23	4	12
9	М	20	5	24
10	М	21	1	-
11	М	20	4	8
12	М	21	1	-
13	М	20	5	6
14	М	23	5	7
15	М	26	5	7
16	М	21	1	-

M:Male, F:Female

Interpretation of results

BoNT/A injection is an effective treatment modality for refractory adult enuresis. However, there is no clear evidence for repeat injection affectivity on these patients yet.

<u>Concluding message</u> Clinicians should keep in mind that in refractory adult enuresis treatment algorithm BoNT/A injection is an effective and safe technique.

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