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PUDENDAL CANAL DECOMPRESSION IN THE TREATMENT OF ERECTILE DYSFUNCTION Ahmed Shafik, MD PhD Professor and Chairman, Dept. of Surgery and Experimental Research, Faculty of Medicine, Cairo University Egypt

- Erectile dysfunction (ED) caused by neurogenic, arterial, venous, disorders
- of 323 patients with ED, 7 had neurogenic impotence due to pudendal nerve compression

AIM: clinical picture and results of treatment

SUBJECTS 7 subjects: 46 - 56 y ED 5 - 9 y chronic constipation 5 / 7 urinary urgency tables

Clini	ical and i		Table 1a: e findings i ndal canal	n the 7 impote syndrome	nt patients
Patient No.	Age (Years)	Impotence Duration (Years)	Urinary Urgency Duration (Years)	Constipation Duration (Years)	Penile, Scrotal, and Perineal Sensation
1	52	7	11	18	Hypoesthesia
2	49	5	9	10	Hypoesthesia
3	56	6	-	8	Hypoesthesia
4	50	9	10	16	Anesthesia
5	56	6	8	14	Hypoesthesia
6	48	6	8	12	Hypoesthesia
7	46	5	-	12	Hypoesthesia

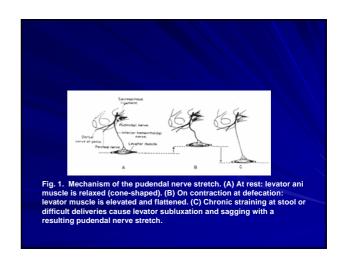
•	hypoesthesia
•	↓ EMG of external urethral sphincter
	and levator ani
•	↓ EMG of external anal sphincter in 2 / 7
•	↑ bulbocavernosus reflex latency
•	↑ PNTML

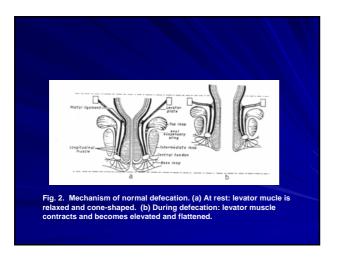
	with pu	dendal	canal sy	ndrome		
Patient No.	Bulbocavernosus Reflex Latency	ı	EMG Acti	PNTML (ms)		
	(ms)	EUS	EAS	Levator	Right	Left
1	63	↓	↓	↓	3.6	3.4
2	57	\downarrow	Normal	- ↓	3.1	3.2
3	44	↓	Normal	↓	2.7	3.1
4	65	\downarrow	↓	↓	4.2	3.8
5	48	↓	Normal	- ↓	2.9	3.3
6	53	\downarrow	Normal	\downarrow	3.4	3.0
7	45	\downarrow	Normal	↓	3.1	2.8

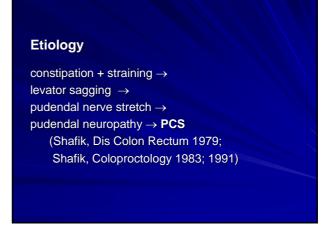
Erectile function tests In normal vascular picture In absence of NPT In normal PBPI In response to intracavernosal injection In BCR latency Indicate neurogenic impotence

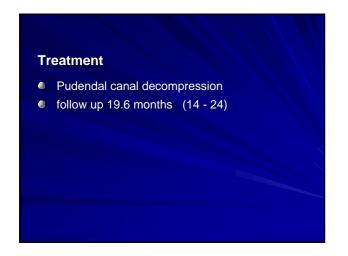
 ◆ PNTML indicates pudendal neuropathy as cause of neurogenic impotence which we call: pudendal canal syndrome

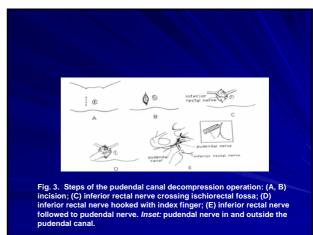
Pudendal canal syndrome • motor changes: ↓ EMG external urethral sphincter + levator + 2 / 7 anal sphincter • sensory changes: • hypo- or anesthesia • ↑ PNTML



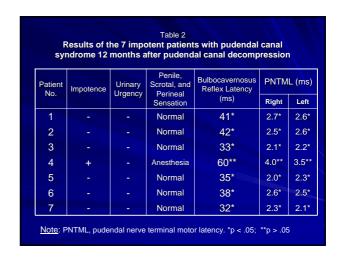


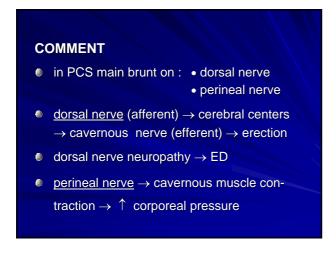


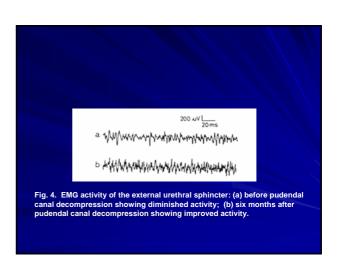


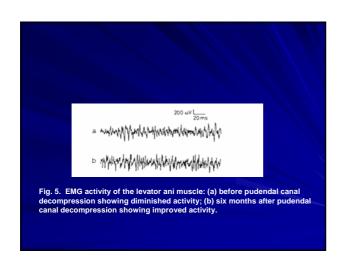


RESULTS • improved urine urgency • ED improved in 6 patients: • 3 patients → 2 - 3 months • 3 patients → 4 - 6 months • improved sensation → 3 - 6 months • improved EMG → 6 - 9 months • ↓ BCR latency → 6 - 9 months









CONCLUSION

- PCS included as cause of neurogenic ED
- treatment : pudendal canal decompression
- PCD
 - simple
 - easy
 - no complications
 - outpatient