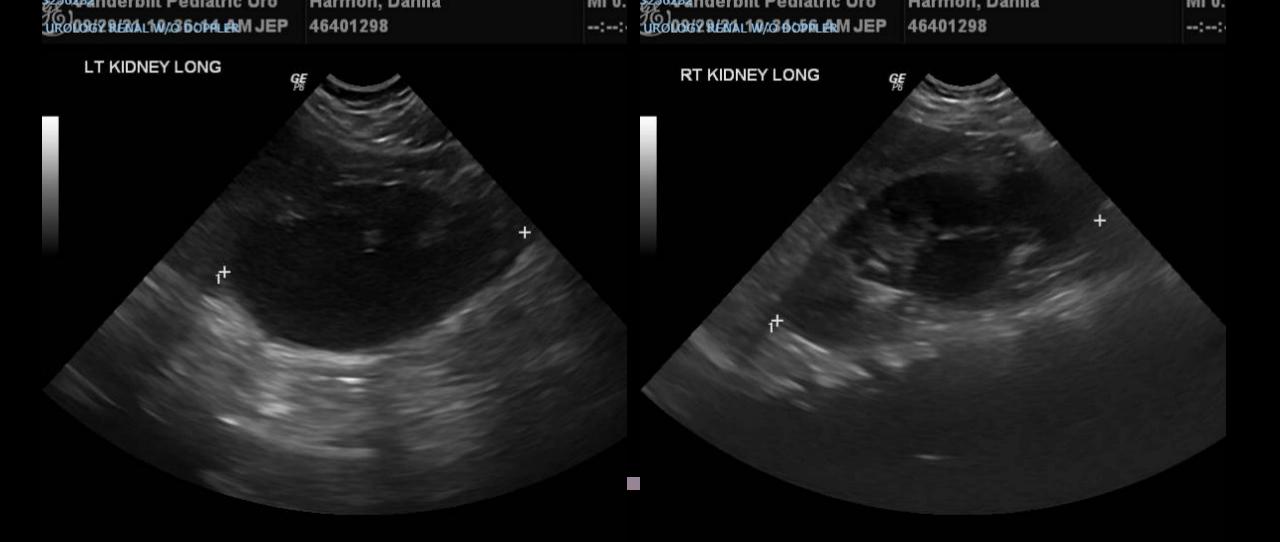
### urodynamic cases

### 6 yo female cc: wet all the time

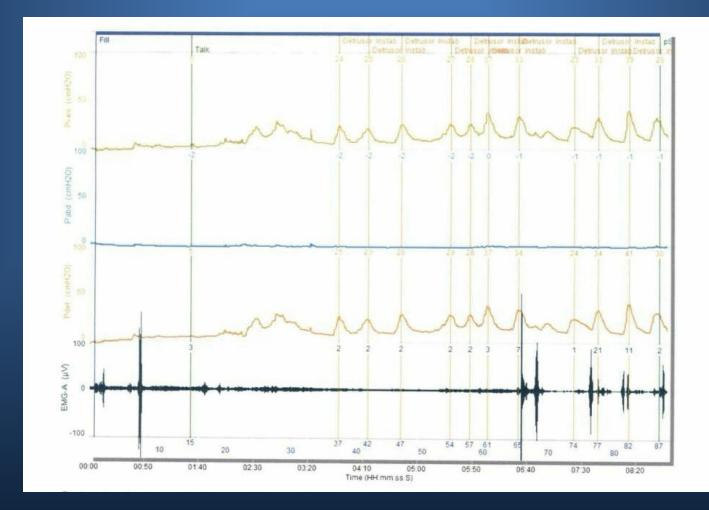
- Back closed at birth
- L4-15 lesion
- ambulatory
- On CIC 5x day
- Was on intravesical Ditropan but complained of pain when Ditropan was instilled. Off medication now
- Attempted us of peristeen but not successful







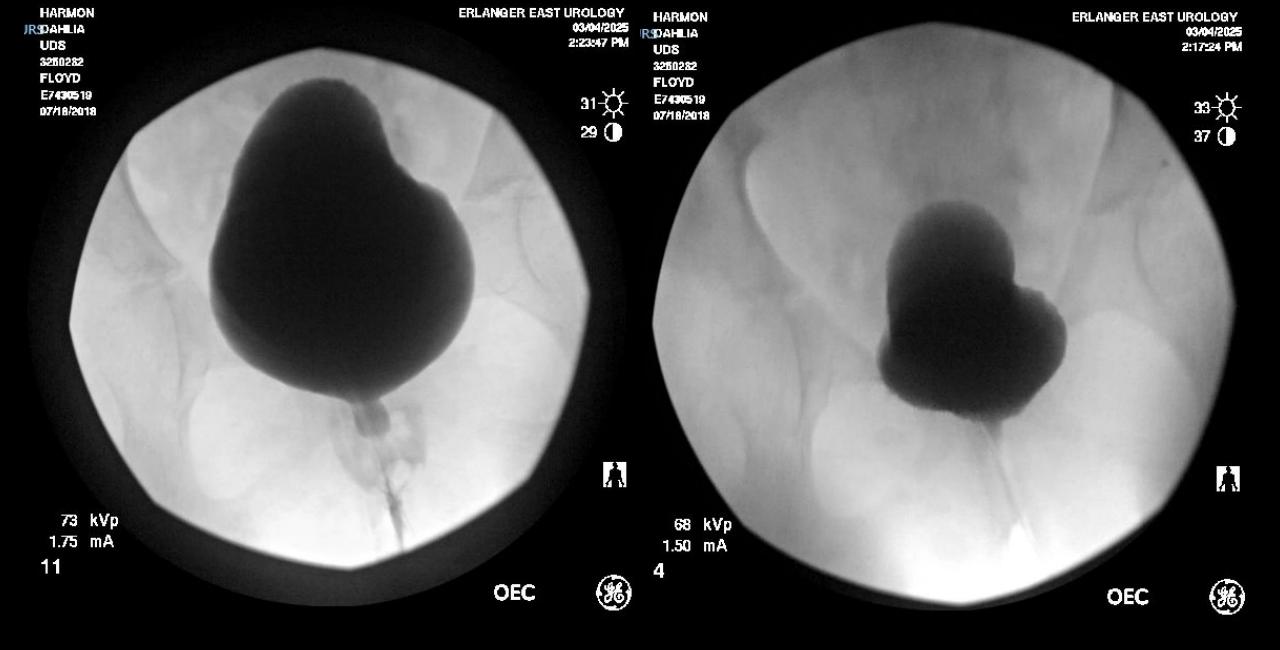
### s/p left pyeloplasty



Patient Name:	DAHLIA HARMON	Patient MRN:	03250232	
Patient DOB (Age):	07/18/2018 (6 YO)	Patient Sex:	FEMALE	
Date of Visit:	03/04/2025	Time of Visit:	12:37:58 pm	
			and the pro-	



Event Summary Table	Time (mm:ss)	Qura (ml/s)	Vura (ml)	VInf (ml)	Pves (cmH2O	Pabd (cmH2O)	Pdet (cmH2O)
Cystometry	00:05	0	0	0	-2	0	-2
Talk	01:32	0	0	15	5	-2	5
Detrusor Instab	03:48	0	0	37	24	-2	25
Detrusor Instab	04:15	0	0	42	20	-2	23
Detrusor Instab	04:45	0	0	47	26	-2	28
Detrusor Instab	05:30	0	0	54	27	-2	29
Detrusor Instab	05:48	0	0	57	26	-2	28
Detrusor Instab	06:04	0	0	61	37	0	37
Detrusor Instab	06:32	0	0	65	33	-1	34
Detrusor Instab	07:23	0	0	74	23	-1	24
Detrusor Instab	07:45	0	0	77	33	-1	34
Detrusor Instab	08:13	0	0	82	39	-1	41
pStop	08:41	0	0	87	29	-1	30



### What next?

- Solifenacin 10 mg
- Mirabegron?
- Alfuzosin?
- Botulinum toxin A?
- Bladder augmentation?

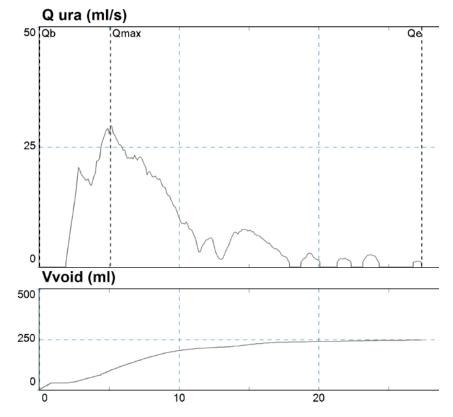
### Boy 6 years

Anamnesis:

- Varying urinary incontinence in daytime, dry during the night
- No incontinence while coughing, laughing or playing
- No obstipation with 4mg macrogol
- Sometime abdominal pain, then also incontinent
- Already had basic urotherapy

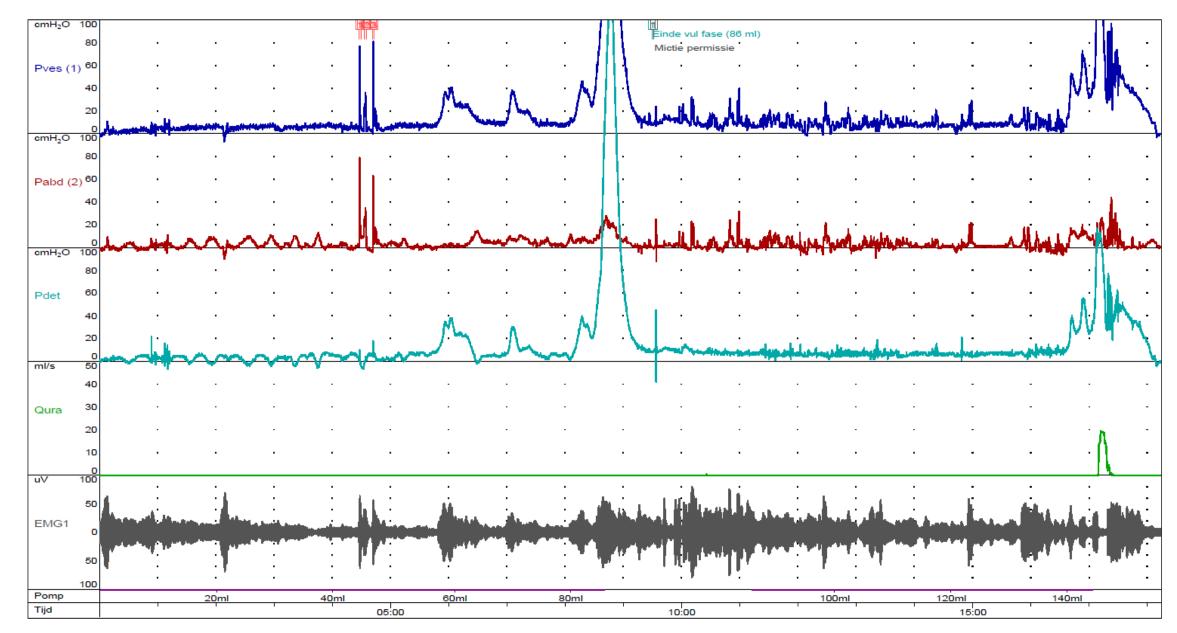


### Uroflowmetry



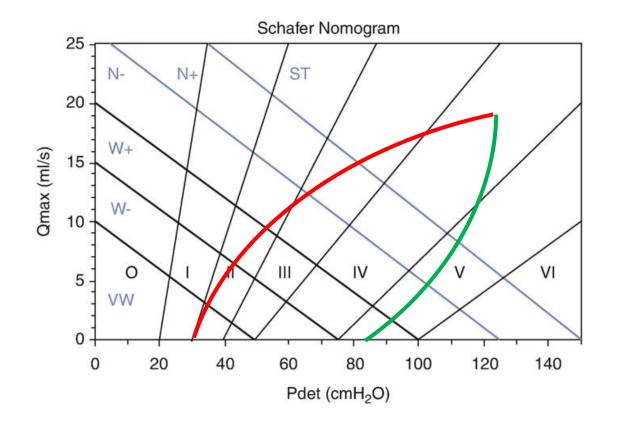
Q max	30	mL/s
Q gemiddeld	9	mL/s
Mictie volume	248	mL
Flow tijd	20,1	S
Mictie tijd	27,4	s







### **Pressure-flow diagram**





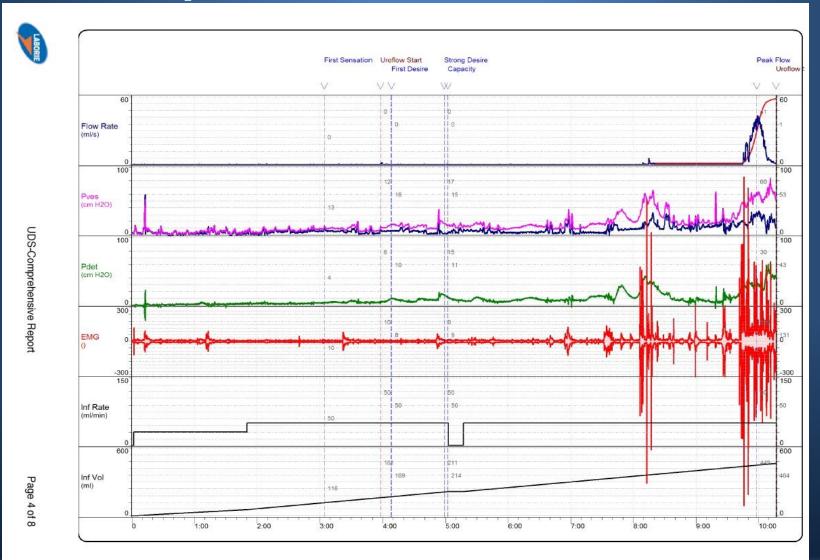


# 11 yo female with dysuria, possible uti and a history of maternal reflux

- An ultrasound was obtained which revealed that she had right upper pole caliectasis. A prior VCUG had already revealed no evidence of reflux and a small right-sided paraureteral diverticulum.
- An uroflow was ordered but never done and the patient had a VUD ordered at the same sitting to "evaluate the bladder pressures"



Urodynamics were performed which reveals as expected, detrusor overactivity with UIC's noted on filling and significant large contractions after the patient had stated that she was full and had to void.



11 yo female with dysuria, possible uti and a history of maternal reflux.

### **Avoid Unnecessary Testing**

- What is clear from this case is that evaluation of the VCUG could have made the diagnosis of external sphincter dyssynergia and the symptoms of urgency by themselves could have easily led the investigator to the conclusion that the patient has DO.
- The need for an expensive and invasive test could have been avoided.
- Furthermore, the symptom of dysuria should have alerted the investigator especially without evidence of an infection that there was dysfunctional voiding.
- Initial corrective treatment with suppression of the overactivity, which can be assessed clinically, is critical in this case to obtain prompt and lasting results with biofeedback to retrain the external sphincter to relax, the solution was not urodynamics.

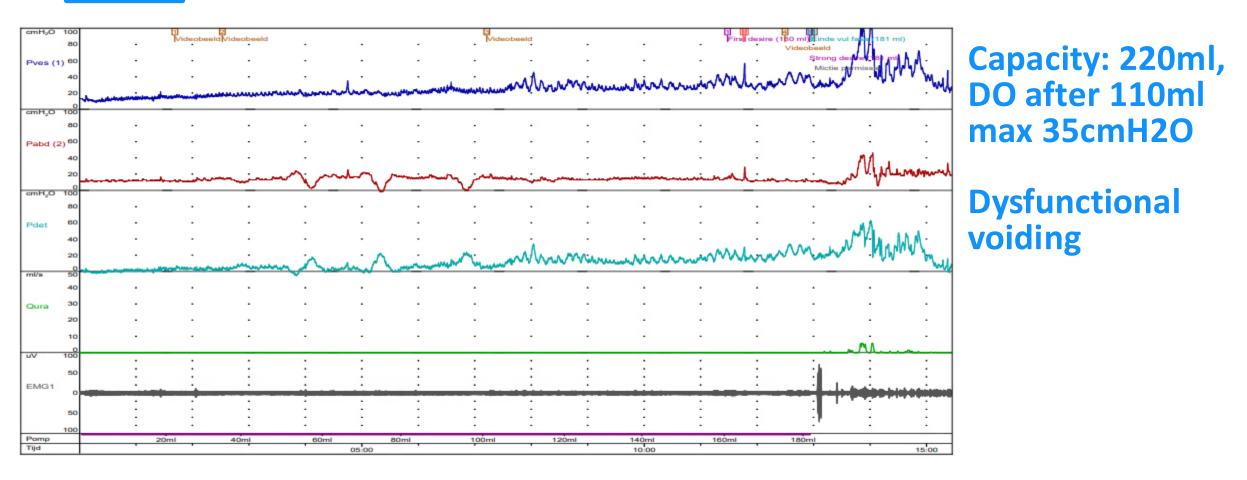
### Boy, currently 15 years

**History:** 

- 2009: Posterior Urethral Valves, antenatal blowout left kidney
- 2010: Ureter reimplantation both sides, bladder augmentation
- .
- 2024: Bladder workup pre kidney transplantation

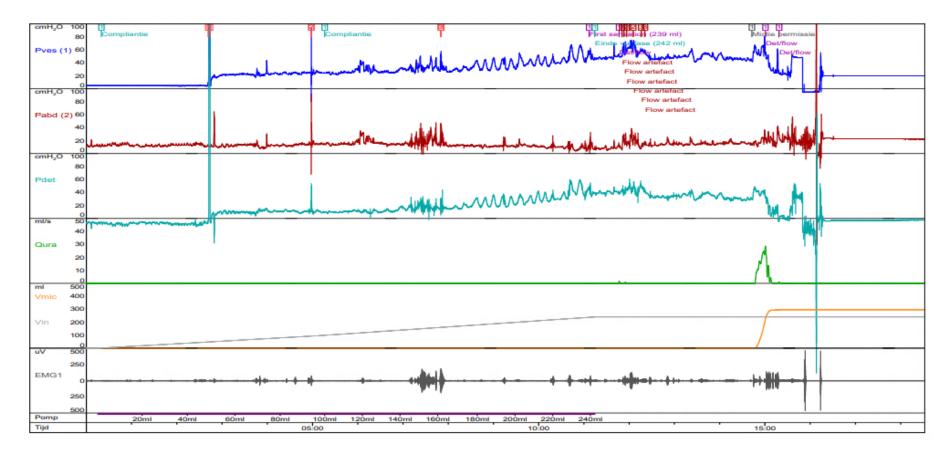


### 2024-6; med: Mirabegron 50mg





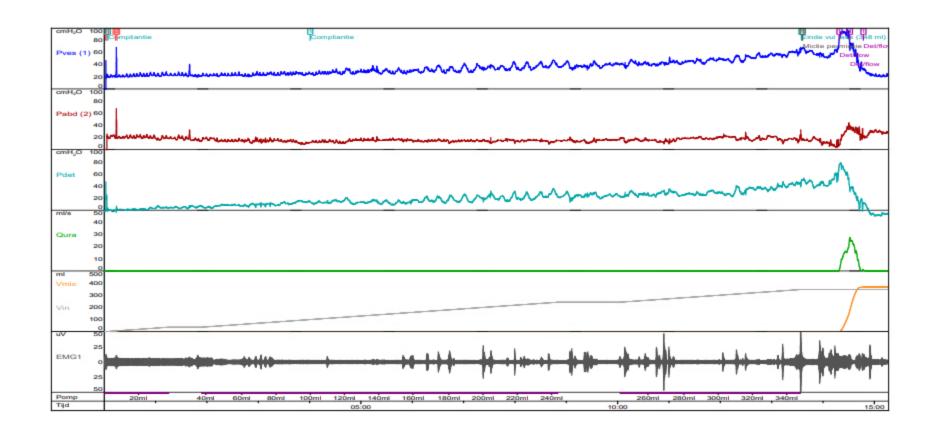
### 2024-12; med: Solifenacine 5mg + Mirabegron 50mg



Capacity: 300ml, DO after 140ml max 45cmH2O compliance worse after 100ml



### 2024-12; med: Solifenacine 10mg + Mirabegron 50mg

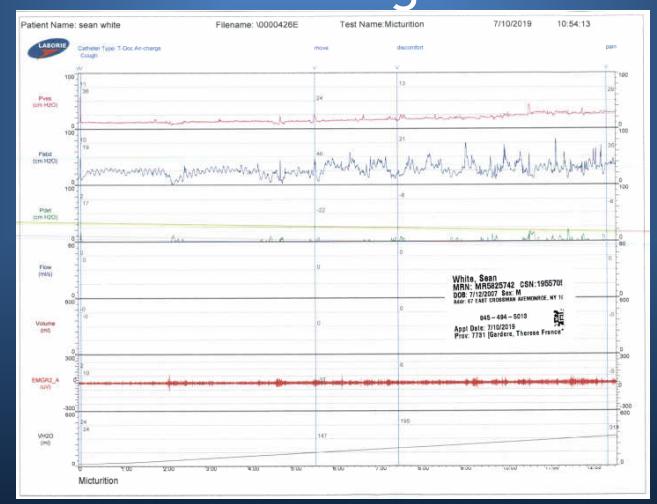


Capacity: 430ml, DO after 140ml max 50cmH2O, compliance worse after 200ml

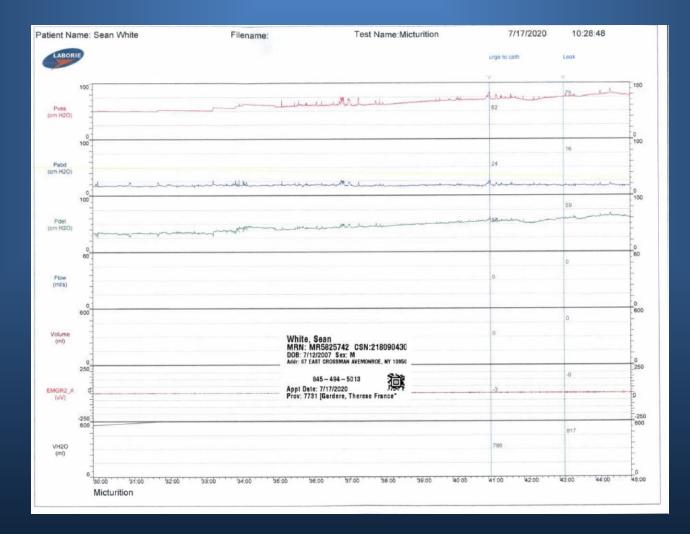


- 14 yo male with hx of L5-S1 sb
- Mace for irrigations
- Well controlled bladder with alfuzosin and oxybutynin
- Complaining of severe urethral pain with caths
- Not responsive to lidocaine or mirabegron

# SW 14 yo boy with severe spasms after cathing



### Post rectal Botulinum Toxin A injections

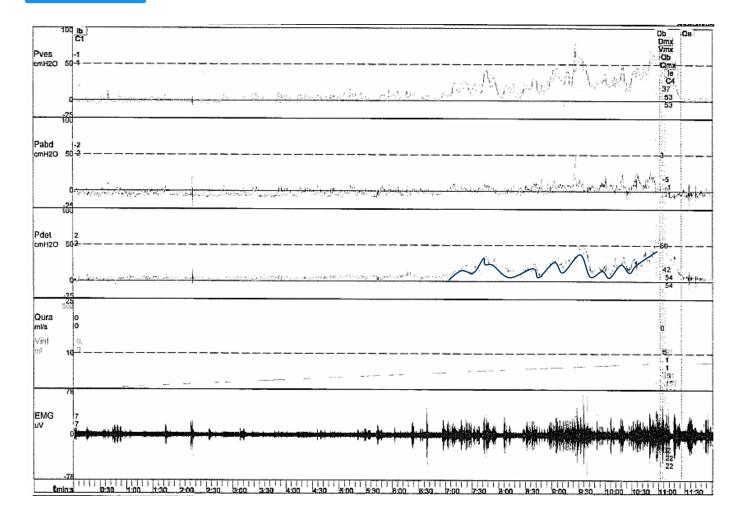


### Boy, currently 14 years

2010: 2012: Resection intradural spinal lipoma 2012: neurogenic bladder 2017: Mitrofanoff stoma 2020: Unthethering conus L1-L3



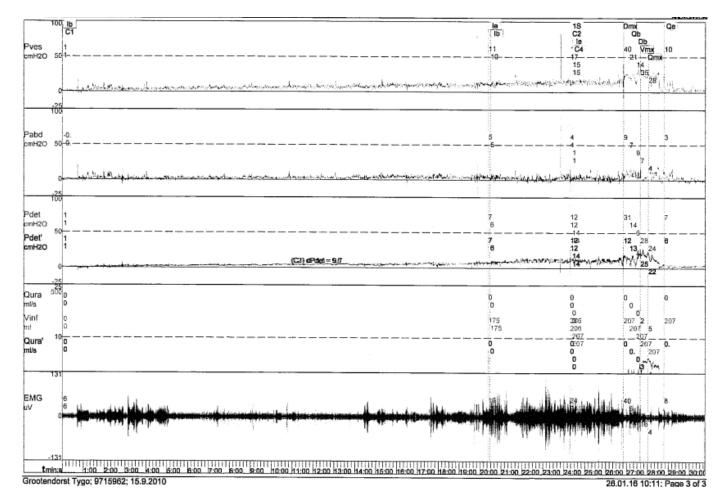
### UDS 2013 (3x1.6mg Oxybutinine):



#### → Botulin Toxin A



### UDS 2016: Mirabegron 25mg/d, Solifenacine 5mg/d



## → Bladder storage function is OK



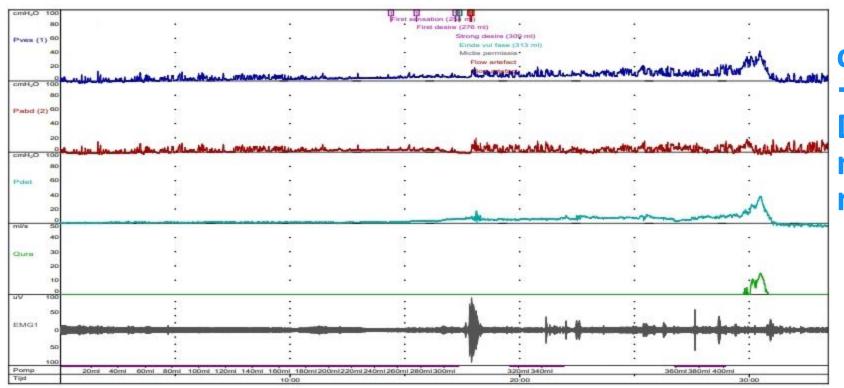
### UDS 2020: Mirabegron 25mg/d, Solifenacine 10mg/d

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#### → Somewhat small volume, low pressures



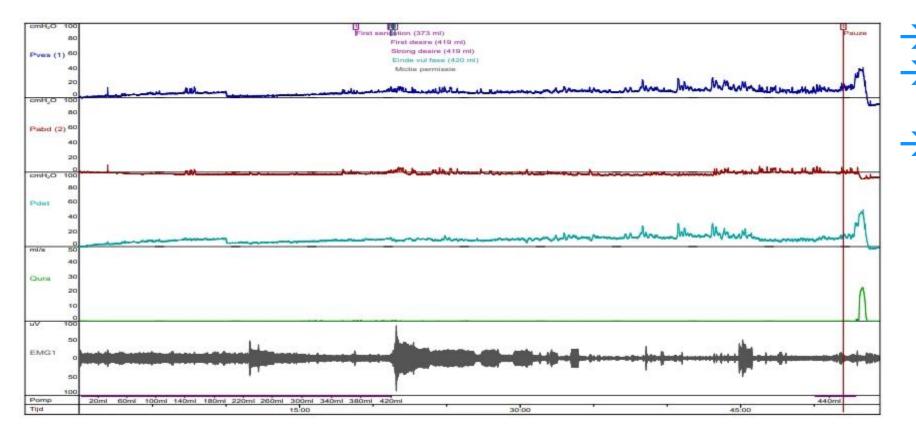
### UDS 2023: Mirabegron 25mg/d, Solifenacine 10mg/d



2020: Unthethering conus L1-L3! → Good volume, no DO. Is his medication still necessary?



### UDS 2024: only mirabegron 25mg/d



→ No DO
→ Good bladder
volume (500ml)
→ Can void
without residual

