

Study day: Clinical cases in urodynamics

A morning with Paul Abrams

Possible Artifacts

Detailed clinical history

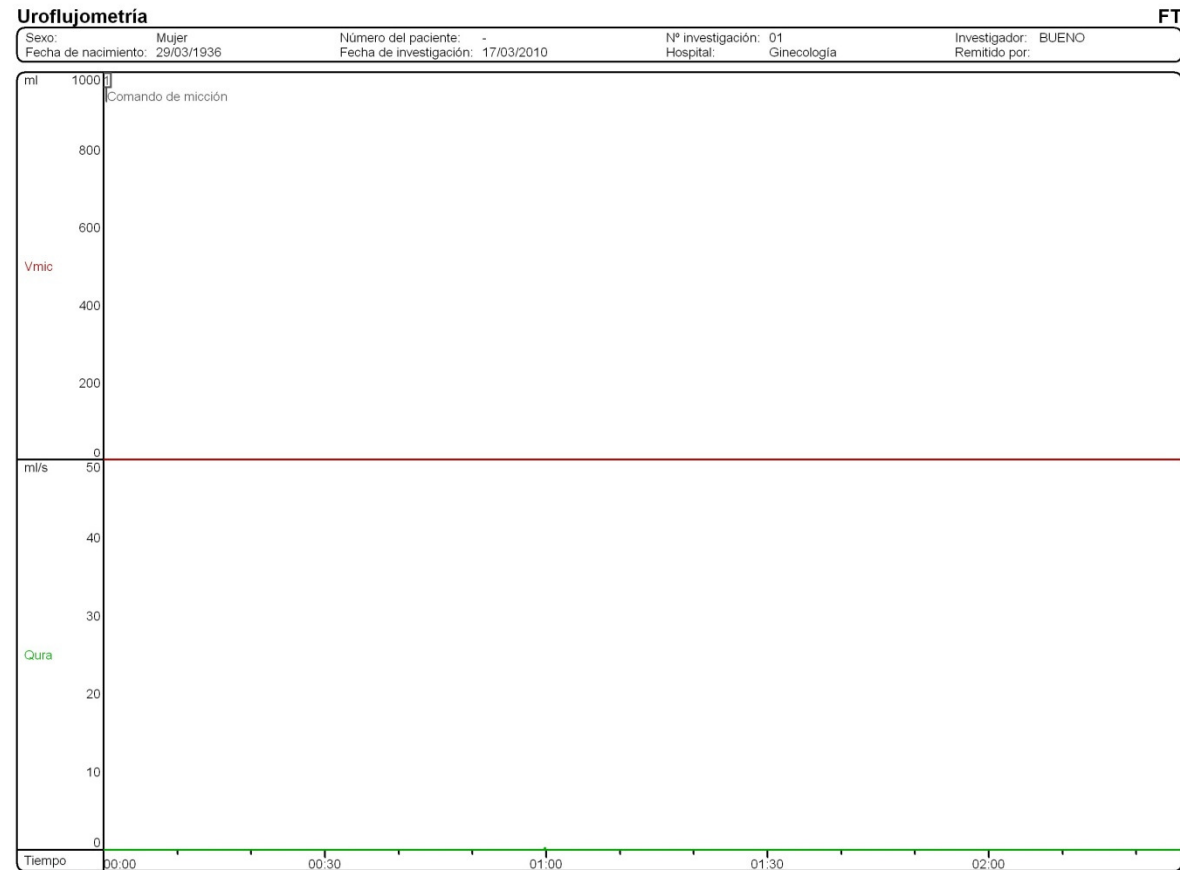
- 73 years old woman
- Faecal incontinence and urinary incontinence with urgency. She improves with physiotherapy.
- Hysterectomy + bilateral oophorectomy.
- Abdominal radiotherapy
- Cholecystectomy.

Detailed clinical history

- Menopause at 47 years old.
- Assessment:
 - Cistocele 0
 - Rectocele II
 - No vault prolapse
 - Pelvic floor contraction 2/5 weak.

Tracing

Urodynamic test: Uroflowmetry



Urodynamic test: Uroflowmetry

- **Result / Comment**

The patient doesn't have urge to urinate. She tries but she fails.

We continue with urodynamic test.

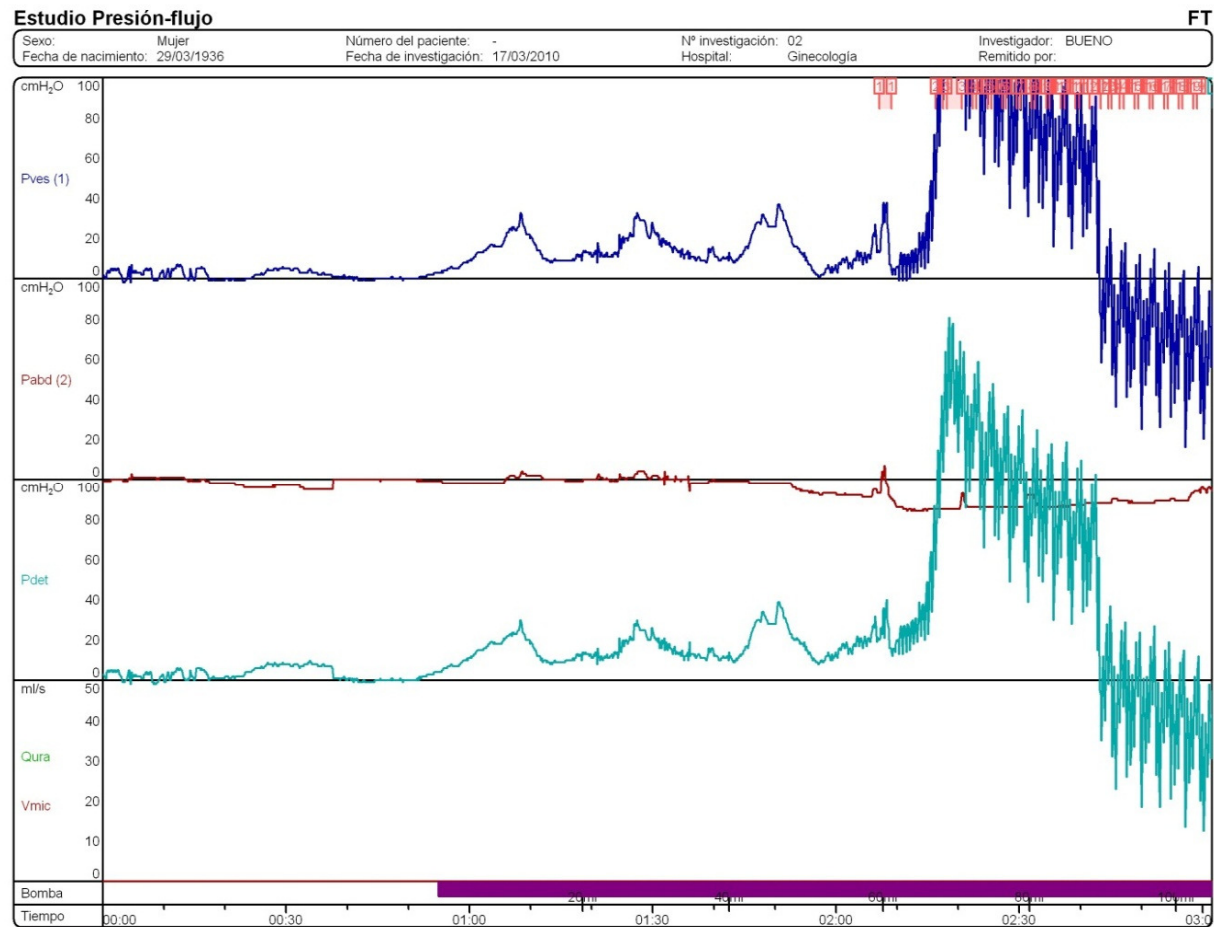
Urodynamics

Tracing

Pves

Pabd

Pdet



Urodynamics

FILLING PHASE RESULT:

When starting the infusion pump is triggered bladder pressure and detrusor pressure rise causing a total loss of urine.

- We start again the cystometry.
- Infused Volume 105 ml.
- Possible artifacts on end of tracing

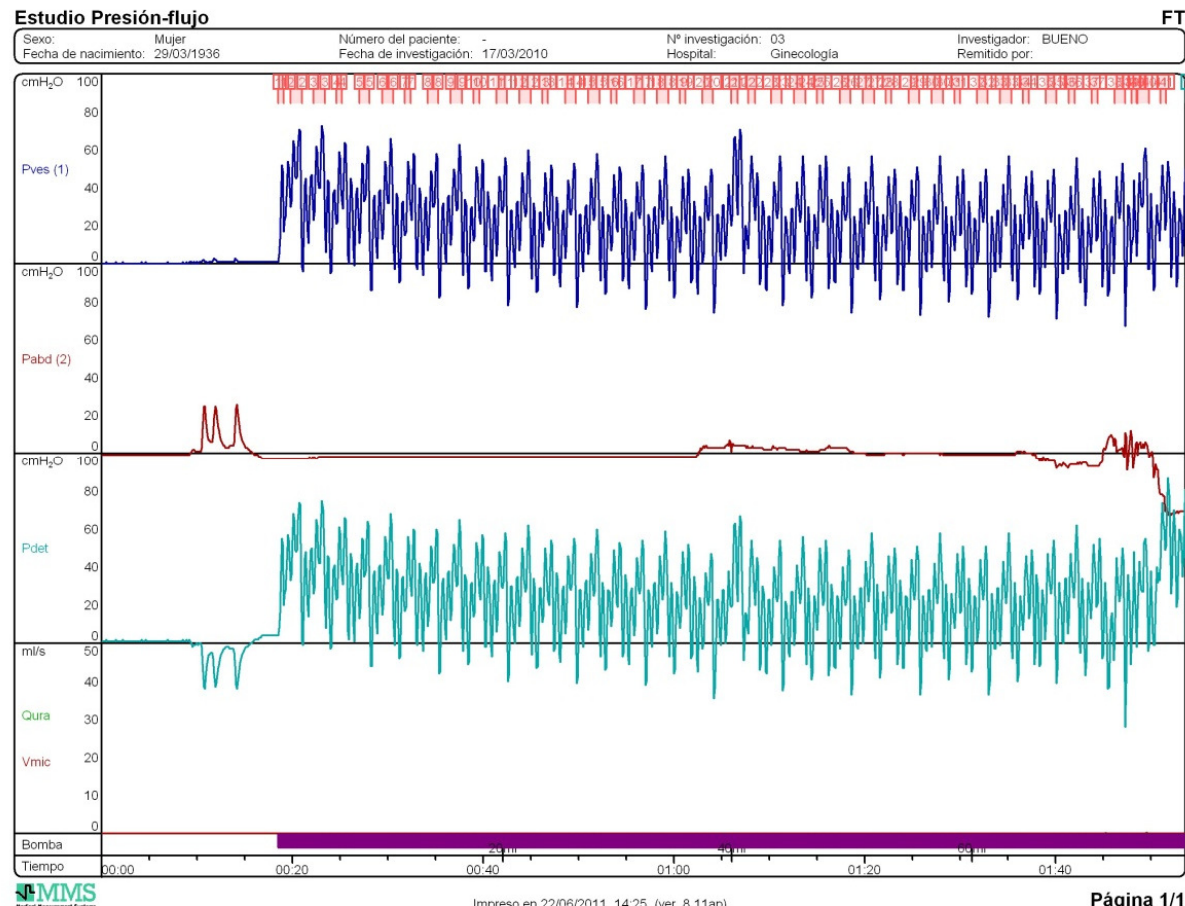
Urodynamics 2

Tracing

Pves

Pabd

Pdet



Urodynamics 2

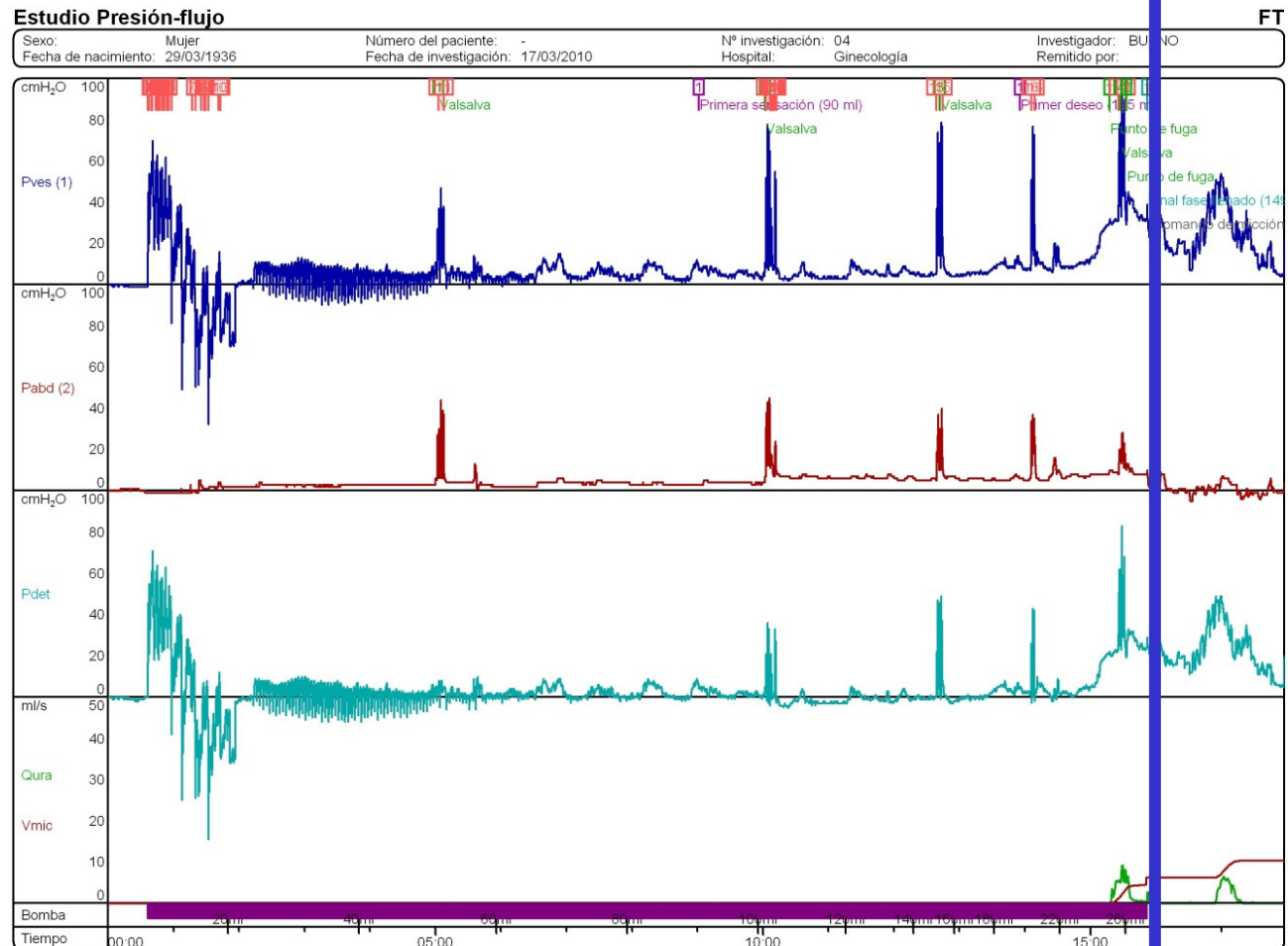
FILLING PHASE 2. RESULTS:

As you begin to infuse the serum, the sawtooth on the graph begins.

- At 75ml of infused volume there is a total loss of urine and the patients sits in the stretcher.
- We try again with the patient resting in the stretcher.

Urodynamics 3

Tracing



Urodynamics 3

FILLING PHASE 3. RESULTS:

- Infused rate started at 10ml/min.
- Un-inhibited contractions without leakage at the beginning of the test
- We increase infused rate to 40ml/min.
- First desire at 90ml of infused volume with a un-inhibited contraction at the same time.

Urodynamics 3

FILLING PHASE 3. RESULTS:

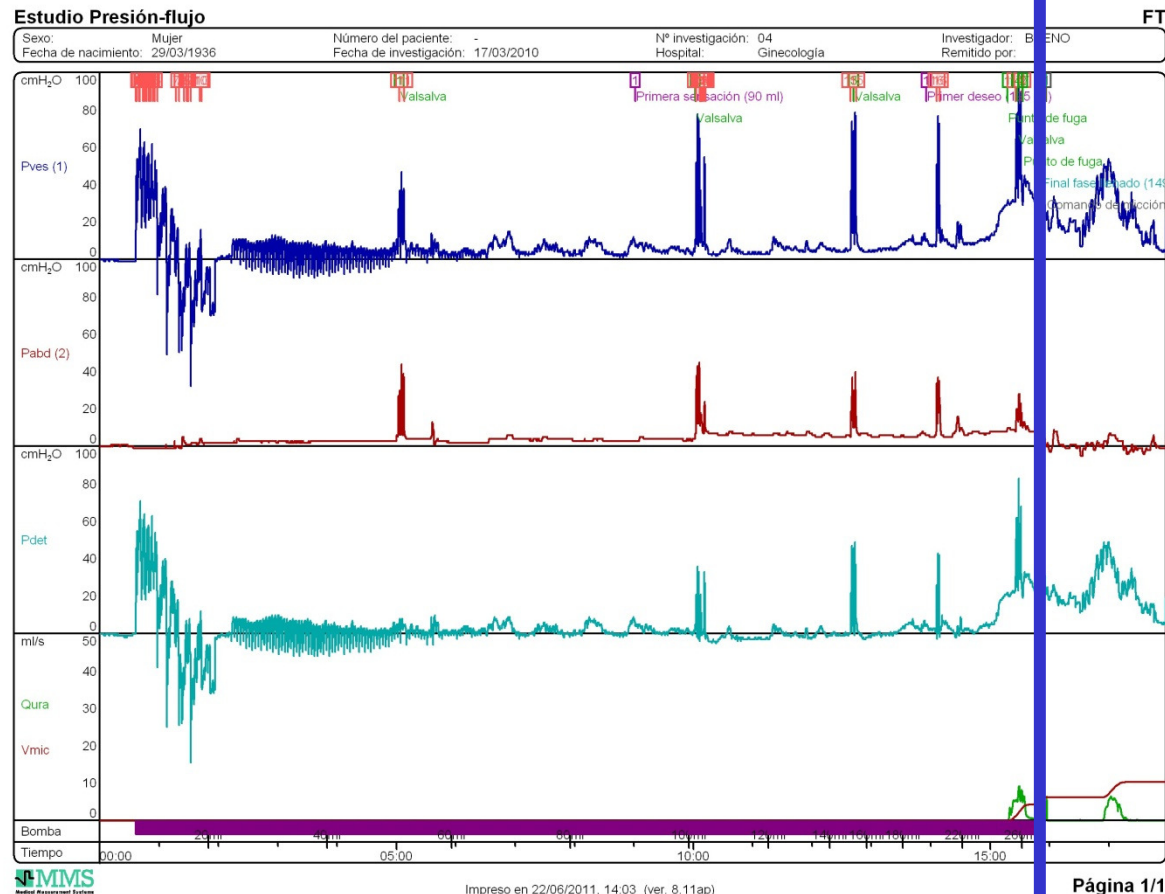
- To 250 ml: un-inhibited detrusor contraction with leakage.
- Voided volume 90cc.
- Qmax 6 ml/seg.
- Post voided volume 0ml.
- Detrusor contraction.
- Without abdominal straining.

Urodynamics 3

- **Comment:**
 - Leakage.
 - Un-inhibited detrusor contractions.
 - Low-bladder capacity (250ml)
 - Possible artifacts in Pves

Urodynamic test: Pressure/Flow Study

Tracing



Urodynamic test: Pressure/Flow Study

- **Results:**

- Weak flow.

Therapeutic approach

- Anticholinergic treatment is indicated.

Questions

- Cystometry ¿Does it affect the infuse rate in the onset of detrusor contractions?
- ¿What is the reason for the appearance of the sawtooth on the tracing?