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What's that Beeping Sound? Case Report

Ellie Balakhanlou MD Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University Health System

Olivier Rolin MD Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University Health System

Eugenio Monasterio Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University Health System

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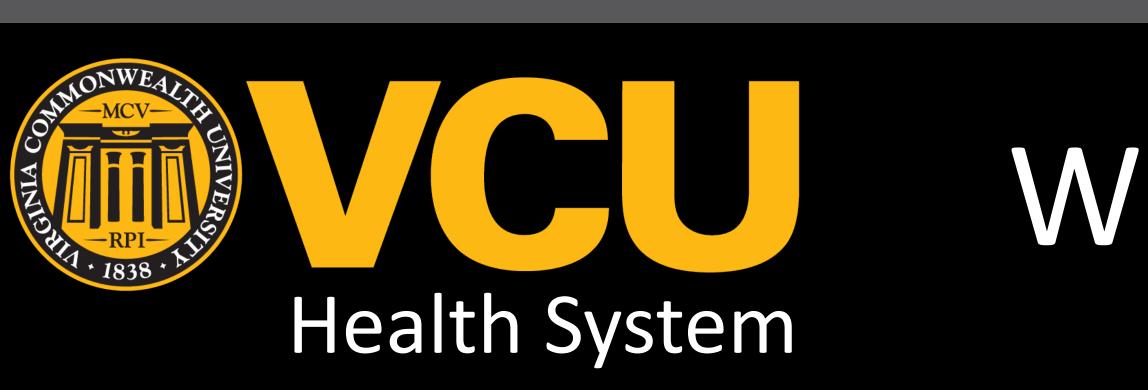
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¹Department of Physical Medicine and Rehabilitation, Virginia Commonwealth University Health System, Richmond, Virginia ²Children's Hospital of Richmond, Virginia Commonwealth University Health System, Richmond, Virginia

Case Description

- The patient presented with concerns of intermittent beeping sounds from her pump that was recently replaced.
- She does not endorse any new weakness or spasticity.
- She notes the sound alarms for 10 minutes with long periods of silence.
- She has not heard the alarm since she left her home this morning, alarm was not heard in clinic.

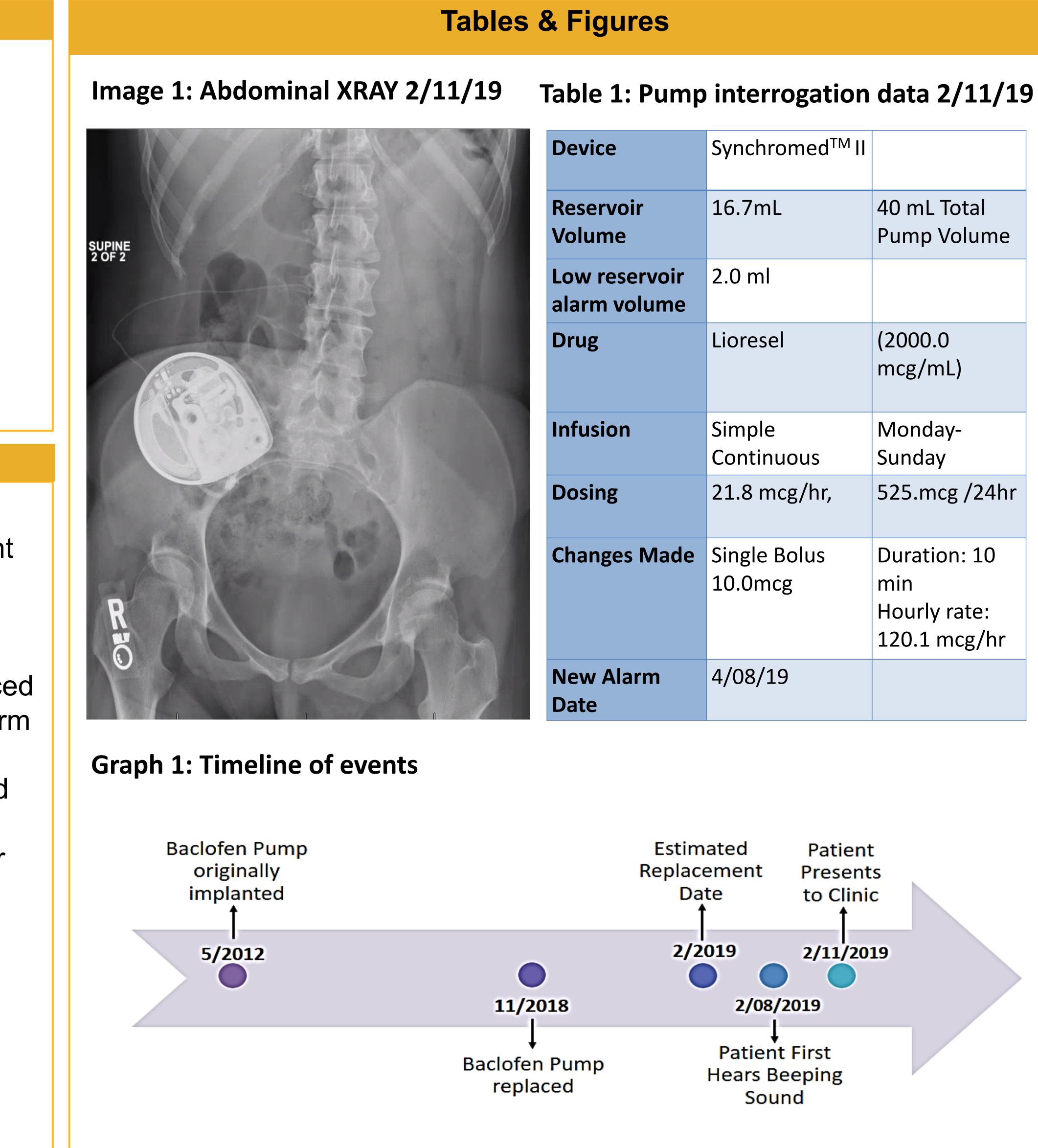
Assessment

- Neurological exam was unremarkable except for sustained clonus on the right foot, which was not present at usual baseline.
- Interrogation of her Medtronic SynchroMed[™] II showed it was replaced 3 months prior with a low reservoir alarm date in 6 months.
- The reservoir volume was 16.7 mL and no recent alerts were recorded.
- Abdominal x-ray was unremarkable for discontinuity or kinking of the pump catheter.
- Pump was programmed to deliver a 20-mcg bolus over 10 minutes. On reassessment in one hour, she was found to have decreased muscle tone and resolved clonus.



What's that Beeping Sound? Case Report

Ellie Balakhanlou MD¹, Olivier Rolin MD^{1,2}, Eugenio Monasterio, MD^{1,2}



vice	Synchromed [™] II	
servoir lume	16.7mL	40 mL Total Pump Volume
v reservoir rm volume	2.0 ml	
Jg	Lioresel	(2000.0 mcg/mL)
usion	Simple Continuous	Monday- Sunday
sing	21.8 mcg/hr,	525.mcg /24hr
anges Made	Single Bolus 10.0mcg	Duration: 10 min Hourly rate: 120.1 mcg/hr
w Alarm te	4/08/19	

Conclusions/Clinical Implications



Discussion

 Given benign X-ray findings and the response to the bolus, we concluded that pump was functioning appropriately and the catheter was in continuity. • We discussed our case with a representative from Medtronic who suggested the alarm may be coming from her recently explanted pump, which the patient had indeed kept. The patient was then discharged back home where she found her explanted pump alarming on her night table.

• ITB administration is a useful and wellestablished treatment of severe spasticity. The pump alarm alerts when pump volume is below the programmed low reservoir alarm volume or if it needs to be replaced. We report a case in which the patient mistakenly associated her removed pump alarm with her current implanted pump.

• This case demonstrates the importance of educating patients regarding the different alarm sounds, reasons why the pump may alarm, and disabling explanted pumps (if kept).