**METHOD**

**Participant**
- The participant was a 14-year-old male with Bartter’s Syndrome.
- He presented with frequent daytime and nighttime voiding.

**Medical History:**
- 4 years old: Renal Ultrasound showed normal kidneys and hypokalemia (low potassium level) was ruled out.
- 11 years old: Ditropan XL 10 mg daily and Imipramine 35 mg daily were prescribed to treat symptoms of overactive bladder, such as frequent urination.
- 12 years old: Neurological exam was normal and neurogenic bladder was ruled out.
- Continued taking Ditropan and Imipramine.
- Prescribed DDAVP 0.6 mg each evening to increase urine concentration and decrease urine production.
- Started use of a urine alarm; however, it was a short trial and he slept through it and continued to wet 6 out of 7 nights.
- 13 years old: Voiding cystourethrogram to determine cause of urinary incontinence showed a normal bladder and urethra.
- 14 years old: Daily supplements of potassium and magnesium were prescribed.
- Voided twice at night.

**RESULTS**

**Baseline Fluid Intake and Output**
- Voided 10 times per 24 hour day
- Output ranged from 90 to 190 ml
- Ingested 1920 ml and voided 1255 ml on the first day.
- Ingested 1560 ml and voided 1310 ml on the second day.
- Voided 255 ml less, with an average increase of 16 ml per void.

**2 Months Following BRT Fluid Intake and Output**
- Voided 8 times per 24 hour day
- Output ranged from 100 to 215 ml
- Average output for the two days was 140 ml and 149 ml, respectively.
- Ingested 2340 ml and voided 1120 ml on the first day.
- Ingested 1020 ml and voided 1190 ml on the second day.
- Input and output balance.

**DISCUSSION**

Based on medical records, urinary tract infection, urethral obstruction, and neurogenic bladder were ruled-out.

- The baseline of fluid intake and output outlined the extent of the problem.
- The stool diary indicated the frequency of defecation to be once or twice per day with soft, medium formed stools, ruling-out constipation.
- Intermittent BRT showed a small amount of progress.
  - The number of voids per day decreased.
  - Voided 420 ml more of liquid, with an average increase of 68 ml.
  - Voided 255 ml less, with an average increase of 16 ml per void.

Next step: Continue BRT with a more concerted effort for one month. Currently waiting for data.