Desmopressin Stimulation Test

**DEFINITION:** This test is used to:
1. Evaluate the cause of ACTH-dependent Cushing’s syndrome

**RESPONSIBILITY:**

**MD/Pituitary RN**
1. Instructs patient to schedule the test in the morning
2. Instructs patient to hold any corticosteroid containing preparations, including: tablets, creams, sprays or suppositories
3. Instructs patient to limit all fluids to no more than 64 oz/ 2L the day of the test
4. Instructs patient to remain NPO after midnight the day of the test
5. Places medication and laboratory orders in Epic
   - Desired dose of desmopressin is 10 micrograms
   - ACTH (STAT) and cortisol orders

**Infusion RN**
1. Monitors for infusion reaction. Report the following to MD if any occur
   - mild and short-lived facial flushing immediately after DDAVP administration
   - Anaphylaxis or Hypersensitivity reaction (bradycardia/tachycardia, hypertension/hypotension, peripheral edema, wheeling with redness at the injection site). If symptoms occur, stop infusion and call ordering physician.

**EQUIPMENT/PHARMACEUTICAL:**
DESMOPRESSIN (DDAVP)
- Infuse 10 microgram over 15 minutes.

**CONTACTS:**
*Pituitary Center Responsible Physician and RN: ***
*Infusion Center scheduling: ***
*Pharmacist: ***
*Core Lab receiving: ***

**PROCEDURE:**
1. Admit patient at scheduled time (8-9 AM).
2. Record admission vital signs and weight
3. Position patient lying down or reclining. Patient will remain NPO for the test.
4. Place an IV with a heparin lock.
5. Collect serum samples for a) serum cortisol and b) serum ACTH at 15 and 0 minutes before desmopressin administration and mark actual clock times.
1. Immediately following "Time 0" blood draw, administer desmopressin 10 mcg IV bolus

1. Draw ACTH blood samples at 15, 30, 45, 60 and 90 minute intervals and cortisol blood samples at 15, 30, 45, and 60 and 90 minute intervals (as depicted in table below). Flush with heparin flush solution 1-3 cc between blood drawn.

1. Please mark collection tubes with patient name, date of test, time point (i.e. time=0, +15, etc.), and actual clock time sample collected and send to lab.

1. Place each ACTH sample on ice and send to lab immediately. If arrives to lab past 2 hrs. from the draw, it will be discarded. Cortisol samples may be saved on unit and sent at one time at end of test.

1. Obtain and record vital signs, remove IV, apply pressure, and dress.

1. Keep patient in recumbent position for 15 minutes before discharge.

Admission vitals:

HR_____________ BP_____________ Weight___________

<table>
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<tr>
<th>Procedure</th>
<th>-15 mins</th>
<th>Time zero</th>
<th>+15 mins</th>
<th>+30 mins</th>
<th>+45 mins</th>
<th>+60 mins</th>
<th>+90 min</th>
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<tbody>
<tr>
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</table>

Comments (re: patient’s tolerance of desmopressin administration or any deviations from protocol)

Vitals before discharge:

HR: ___________________ BP ___________________

Please upload this page into patients EPIC Chart Marked “Desmopressin Stimulation Test”