Synonyms

DDAVP

Dose and Indications

Treatment of Pituitary Diabetes Insipidus

Intranasal
Initially 0.25 micrograms per dose
Dose to be adjusted according to the response

Oral
Initially use 2 to 5 micrograms per dose, 1 to 3 times a day
Dose to be adjusted according to the response
Reported dosage equivalence for nasal to oral is 1:(10 - 20)

Haemostasis

Seek haematologist advice
Preparation and Administration

Intranasal

Preparation 1 (if WCHN prepared solution is unavailable):
Dilute 1mL of desmopressin 4microgram/mL injection solution with 3mL of 0.9% sodium chloride injection solution. The resulting solution contains 1microgram/mL of desmopressin acetate.

Administer using a syringe and alternate between each nostril until complete dose is given.

<table>
<thead>
<tr>
<th>Dose</th>
<th>0.25 microgram</th>
<th>0.5 microgram</th>
<th>1 microgram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>0.25mL</td>
<td>0.5mL</td>
<td>1mL</td>
</tr>
</tbody>
</table>

The solution must be used immediately and the remainder discarded.

Preparation 2:
Use the solution prepared by the WCH Pharmacy department. This solution contains 10 micrograms/mL of desmopressin acetate.

<table>
<thead>
<tr>
<th>Dose</th>
<th>0.25 microgram</th>
<th>0.5 microgram</th>
<th>1 microgram</th>
<th>1.5 microgram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>0.025mL</td>
<td>0.05mL</td>
<td>0.1mL</td>
<td>0.15mL</td>
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</table>

Equipment required:
- 1 Rhinyle tube (Rhinyle tubes are available from pharmacy and are reusable for individual patients)
- 1 mL oral dispenser
- Straw attachment for the oral dispenser

Method for drawing up dose
1. Ensure you have the correct dilution of desmopressin acetate (10 micrograms/mL) prepared by WCHN pharmacy).
2. Attach the straw attachment to 1mL oral dispenser.
3. Push straw attachment into the rhinyle tube at the END FURTHEST FROM THE ARROW.
4. Draw back on the dispenser until the fluid fills the rhinyle tube to the prescribed mark.
5. Hold rhinyle tube bent in a U shape with both openings facing upwards to avoid fluid loss.
6. Disconnect oral dispenser, leaving the straw attachment connected to the rhinyle tube.

Administration – Ensure the nose is clear and maintain rhinyle tube bent in U shape.
1. Draw 1mL of air into the oral dispenser.
2. Reconnect the oral dispenser to the straw attachment on the rhinyle tube at the END FURTHEST FROM THE ARROW.
3. Insert the rhinyle tube just inside the nostril.
4. Depress the oral dispenser quickly.
Desmopressin acetate

200 microgram tablets; 10microgram/mL WCHN prepared solution; 4microgram/mL injection solution

Oral

Place 100 micrograms (half a 200 microgram tablet) in a 10mL oral dispenser and draw up water to obtain a 10mL solution. The resulting solution contains 10 microgram/mL of desmopressin acetate.

<table>
<thead>
<tr>
<th>Dose</th>
<th>2 microgram</th>
<th>3 microgram</th>
<th>4 microgram</th>
<th>5 microgram</th>
</tr>
</thead>
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<tr>
<td>Volume</td>
<td>0.2mL</td>
<td>0.3mL</td>
<td>0.4mL</td>
<td>0.5mL</td>
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</table>

The solution must be used immediately and the remainder discarded.

Adverse Effects

Common

Headache, abdominal cramps

Intranasal: local irritation and rhinitis in the nose, nosebleed

Infrequent

Water intoxication, seizures, hyponatraemia

Monitoring

> Sodium levels
> Fluid balance (Intake and urine output)

Practice Points

> Always write the generic name of the drug in full and dose in micrograms.

References

Desmopressin acetate
200 microgram tablets; 10 microgram/mL WCHN prepared solution; 4 microgram/mL injection solution

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If so, which policy (title)?

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<th>Who approved New/Revised Version</th>
<th>Reason for Change</th>
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<td>15/11/2018</td>
<td>V2</td>
<td>SA Health Safety and Quality Strategic Governance Committee</td>
<td>Formally reviewed in line with 5 year scheduled timeline for review.</td>
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<td>9/03/2018</td>
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