Captopril

FORM
Oral Solution 5mg/ml (to be reconstituted)

INDICATION
Hypertension
Congestive Cardiac Failure

DOSE RANGE
N.B. The neonatal response to treatment with ACE inhibitors is very variable, and some neonates develop profound hypotension with even small doses; a test- dose should be used initially and increased cautiously

<table>
<thead>
<tr>
<th>AGE</th>
<th>DOSE</th>
<th>FREQUENCY</th>
<th>ROUTE</th>
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</thead>
<tbody>
<tr>
<td>Neonate</td>
<td>10 to 50microgram/kg</td>
<td>Single Test Dose*</td>
<td>Oral</td>
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<tr>
<td>(10 microgram/kg in neonate less than 37 weeks postmenstrual age)</td>
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<tr>
<td>If tolerated, give 10 to 50 microgram/kg/dose and increased as tolerated/required by 100microgram/kg/dose to a max of 2mg/kg daily in divided doses**</td>
<td>2 - 3 times daily</td>
<td>Oral</td>
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<tr>
<td>N.B. (max 300microgram/kg daily in divided doses in neonate less than 37 weeks postmenstrual age)</td>
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<tr>
<td>1 month – 6 months</td>
<td>100 microgram/kg</td>
<td>Single test dose*</td>
<td>Oral</td>
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<tr>
<td>If tolerated, give 100 – 300 microgram/kg/dose and increase as tolerated/required to max. 4mg/kg daily in divided doses **</td>
<td>2 or 3 doses daily</td>
<td>Oral</td>
<td></td>
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</tbody>
</table>

* Monitor blood pressure every 15 minutes for 1 to 2 hours during test dose.

** Higher doses of up to 1mg/kg/dose have been used in neonates in conditions such as dilated cardiomyopathy with intractable heart failure - doses exceeding 500microgram/kg/dose should not be used without Consultant approval. Discussion of such cases with a Cardiologist is advised

CAUTIONS, CONTRA-INDICATIONS AND SIDE EFFECTS
- See Summary of Product Characteristics and most recent edition of BNF for Children (links below)

STORAGE
Follow directions on side of bottle for reconstitution.
Once reconstituted, the solution is stable for 21 days at room temperature.

FURTHER INFORMATION
- For doses less than 500micrograms the 5mg/ml oral solution should be diluted as follows

| Captopril 5mg/ml oral solution | 0.4ml |
| Water for Injection | Up to 20ml |

Resulting Solution 2mg in 20ml (100micrograms/ml)
**SPECIAL MONITORING**

- Continuous Cardiac monitoring
- BP Monitoring (every 15 mins after initial dose and hourly thereafter until a stable upper dose is established)
- U&E’s following initiation of treatment and repeat when dose is stabilised
- Monitor WBC every 2 weeks for first 3 months of treatment (Risk of neutropenia)
- Check urine for protein monthly for first 9 months of treatment

**LICENSED STATUS**

Licensed for all ages

**LINKS**

BNF for Children: / Electronic Medicines Compendium

**APPLICABLE POLICIES**

West of Scotland Neonatal Guidelines:

Consult local policy if applicable

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Dose may vary depending on indication, age, renal function, hepatic function, and concomitant medications. This monograph should be used in conjunction with the package insert, BNF for Children, and Summary of Product Characteristics. For further advice contact your clinical pharmacist or pharmacy department.