

Propranolol for Hemangioma: Outpatient Protocol

Dosing

- 1 mg/kg/d divided BID for 1 week (0.5mg/kg/dose)
- 1.5 mg/kg/d divided BID for 1 week (0.75 mg/kg/dose)
- 2 mg/kg/d divided BID keep at this dose (1 mg/kg/dose)

Other Considerations

- Try for 6 hours between doses
- Hold if child can't take PO
- Child should not skip meals
- Typically use for minimum 6 months, 12 months have less recurrences
- When lesion treated, tapering is common to ensure no recurrence of the lesion
- Monitor Blood pressure and pulse 1 and 2 hours after any dose increase of >0.5 mg/kg/day

Protocol Details

1. Baseline BP and HR
2. Propranolol 0.5 mg/kg (1 mg/kg/day) PO BID
3. Check BP and HR 1 and 2 hours after first dose
4. IF not tolerated: gradually increase to 0.5 mg/kg PO
5. IF tolerated: Ensure minimum of 6 hours between doses, warning signs, feed regularly and hold dose if PO intake compromised, Discharge to home
6. In 3-7 days: Increase dose to 0.75 mg/kg PO BID (1.5 mg/kg/day)
7. Check BP and HR 1 and 2 hours after new dose
8. If not tolerated: Keep at 1 mg/kg/day and assess efficacy
9. If tolerated: discharge home
10. In 3-7 days Increase dose to 1 mg/kg PO BID (2 mg/kg/day)
11. Check BP and HR at 1 and 2 hours after new dose

Vital Sign Information

- Blood Pressure & Pulse screening: [Normal Infant Vital Signs](#)
- Inappropriate Bradycardia
 - Newborns (<1 month old) <70 BPM
 - Infants (1-12 months old) <80 BPM
 - Children (>12 months old) <70 PBM

- Inappropriate Systolic Blood Pressure (< 5th percentile for oscillometric or <2 SD below mean for auscultation)
 - Newborn: <57 mm Hg (oscillometric) or 64 mm Hg (auscultation)
 - 6 months: < 85 mm Hg (oscillometric) or 65 mm Hg (auscultation)
 - 1 year: <88 mm Hg (oscillometric) or 66 mm Hg (auscultation)

Treatment Location Considerations

- Inpatient for <8 weeks old or any age with inadequate social support or co-morbid conditions affecting the cardiovascular or respiratory system
- Outpatient for > 8 weeks old with good social support and no co-morbid conditions

Adverse Effects

see drug information for [propranolol](#)

- Hypoglycemia- child should eat every 4 hours
- Hypotension- check blood pressure after dose change
- Bradycardia- check pulse after dose change
- [Infant Vital Signs](#)

Parents to call if...

- Lethargy
- Cool Clammy skin
- Breathing Difficulties

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