

# ASTHMA PATHWAY

## Dosing Guidelines for Medications

Severity Level and Medication	<10kg	>10kg						
<b>Mild</b> Albuterol  Dexamethasone <b>OR convert to</b> Prednisone/Prednisolone	4 puffs q4h + 2 puffs q4h PRN  *Reduce patient to 2-4 puffs prior to discharge	8 puffs q4h + 4 puffs q4h PRN						
<b>Moderate</b> Albuterol  Dexamethasone <b>OR convert to</b> Prednisone/Prednisolone	4 puffs q2h + 2 puffs q1h PRN  0.6mg/kg PO daily x1 (max 16mg/dose), optional 2nd dose in 24-48 hours 2mg/kg once (max 60mg) followed by 1mg/kg BID (max 60mg/day) for 3-5 days	8 puffs q2h + 4 puffs q1h PRN  0.6mg/kg PO daily x1 (max 16mg/dose), optional 2nd dose in 24-48 hours 2mg/kg once (max 60mg) followed by 1mg/kg BID (max 60mg/day) for 3-5 days						
<b>Severe</b> Continuous Albuterol  Dexamethasone <b>OR convert to</b> Prednisone/Prednisolone	0.5 - 1mg/kg/hr (Med-Surg max 20mg/hr) *Round to nearest 5mg/hr  0.6mg/kg PO daily x1 (max 16mg/dose), optional 2nd dose in 24-48 hours 2mg/kg once (max 60mg) followed by 1mg/kg BID (max 60mg/day) for 3-5 days							
<b>Initial Treatment ED only</b> Combination Nebulizer: Albuterol + Ipratropium Bromide	2.5mg x 3 = 7.5mg + 500mcg	5mg x 3 = 15mg + 1000mcg						
<b>Escalation Therapies</b> Normal Saline Bolus + Magnesium Sulfate  Terbutaline (ED only)  Epinephrine (ED only)  Methylprednisolone  Ipratropium Bromide (IP only)	20mL/kg IV (max 1L) 50mg/kg IV (max 2g/dose)  10mcg/kg subcutaneous (max 250mcg)  0.01mg/kg IM (max 0.5mg/dose)  1mg/kg q6h IV (max 60mg/dose)  250mcg (2.5mL) neb q6h (for 24 hours)   500mcg (5mL) neb q6h (for 24 hours)							
<b>Asthma Action Plan</b> Albuterol	<table border="0" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%; vertical-align: top;">2 puffs q4h PRN</td> <td style="width: 33%; vertical-align: top;"> <u>Yellow Zone</u>                      4 puffs q4h PRN                 </td> <td style="width: 33%; vertical-align: top;">4 puffs q4h PRN</td> </tr> <tr> <td style="vertical-align: top;">4 puffs q20min PRN up to 3</td> <td style="vertical-align: top;"> <u>Red Zone</u> </td> <td style="vertical-align: top;">8 puffs q20min PRN up to 3</td> </tr> </table>		2 puffs q4h PRN	<u>Yellow Zone</u> 4 puffs q4h PRN	4 puffs q4h PRN	4 puffs q20min PRN up to 3	<u>Red Zone</u>	8 puffs q20min PRN up to 3
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