Pediatric Acute Asthma Management Guideline

Clinical Asthma Severity (CAS) Score and Medications

Guidelines are for:

-Children ≥ 24 Months old WITH previous Physician—Diagnosed asthma or reactive airway disease, presenting with:

- Wheezing, or
- Cough, or
- -Shortness of Breath, or
- -Increased work of Breathing

Exclusion Criteria include:

-Cystic fibrosis, tracheostomy, Neuromuscular disease, immunodeficiency, chronic cardiac or lung disease/ bronchopulmonary dysplasia

- -Stridor
- -Altered Mental Status

CAS	0 (Mild)		1 (N	1 (Moderate)		2 (Severe)	
Dyspnea	Speaks in sentences, Coos and Babbles		Speaks in pa short cry	Speaks in partial sentences, short cry		Speaks in single words/ short phrases/ grunting	
Wheezing	No Wheeze Good air movement			Expiratory Wheeze Mild to moderate air move- ment		Inspiratory and expiratory Wheeze Poor air movement (silent chest)	
Work of Breathing	None or intercostal		retractions (Intercostal and substernal retractions (and/or) Nasal flaring		Intercostal, substernal, AND supra- clavicular retractions with or without nasal flaring	
Cough	No or mild cough		·	Frequent coughing without loss of breath		Frequent coughing with loss of breath	
Respiratory rate	24-36m 3-6yr 7-12yr >13	<35 <30 <20 <20	24-36m 3-6yr 7-12yr <u>></u> 13yr	35-55 30-50 20-40 20-30	24-36m 3-6yr >7-12yr <u>></u> 13yr	>55 >50 >40 >30	
O2 Sat	>96% on Room Air		90-95% on r	90-95% on room air		<89% on Room air	

Medications

PO Steroid (CAS 1-8)

-Dexamethasone 0.6mg/KgMax dose 16mg

IV Steroid (CAS >9)

-Methylprednisolone (Solu-Medrol) 2mg/kg/IV Max dose 125mg

Magnesium Sulfate

50mg/kg IV
 Max dose 2g over 30minutes
 (only 1 dose in ED setting)

Terbutaline: 0.2mcg/kg/min

(Loading dose: 0.01 mg/kg (10 mcg) SQ/IV, max of 0.4mg)

Albuterol MDI (CAS 0-5)

<20Kg 6 puffs with spacer ≥20Kg 8 puffs with spacer

* choice of Albuterol for CAS 3-5*

Albuterol Continuous neb treatment W/ Ipratropium (CAS 3-12)

<20Kg 10mg Albuterol per hour
w/ 0.5mg (500mcg) Ipratropium
>20Kg 20mg Albuterol per hour
w/ 1mg Ipratropium

Albuterol Neb

<10 kg: 2.5 mg 10-20 kg: 5 mg 20+ kg: 10 mg

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