



ED Asthma Pathway

2-17yo child with asthma exacerbation

Exclusions: Chronic lung disease, cystic fibrosis, heart disease, tracheomalacia, tracheostomy, sickle cell anemia, neuromuscular disease, immune disorders

Supplemental oxygen for SpO2<90%; Obtain respiratory score

	0 POINTS	1 POINT	2 POINTS	3 POINTS
RR				
2-3 yr		≤34	35-39	≥40
4-5 yr		≤30	31-35	≥36
6-12 yr		≤26	27-30	≥31
>12 yr		≤23	24-27	≥28
Retractions	None	Subcostal or intercostal	2 of the following: subcostal, intercostal, substernal	3 of the following: intercostal, substernal, suprasternal, supracla- vicular, OR nasal flaring/head bob- bing /grunting
<u>Dyspnea:</u> 2-4 yr	Normal feeding, vocalizations, & play	1 of the following: difficulty feeding, decreased vocalization, or agitated	2 of the following: difficulty feeding, decreased vocaliza- tion, or agitated	Stops feeding, no vocalization; drowsy/confused
≥ 4 yr	Counts for ≥10 in 1 breath	Counts to 7-8 in one breath	Counts to 4-6 in one breath	Count to ≤3 in one breath
<u>Auscultation</u>	Normal breathing, no wheezing	End-expiratory wheeze	Expiratory wheeze only	Inspiratory or expiratory wheeze OR diminished breath sounds

MILD (1-4)

Initial: -Albuterol MDI/spacer 4-8 puffs

-Consider dexamethasone 0.6mg/kg (max 16mg) OR prednisone 2mg/kg (max 60mg)

Assess and score at end of 1st hour:

If score 1-4: DISCHARGE.

If score worsens and is 5-8: Albuterol MDI/spacer 4-8 puffs, observe an additional 1 hour.

Assess and score at end of 2nd hour:

If score 1-4: DISCHARGE.

If score worsens and is 5-8: Albuterol MDI/spacer 4-8 puffs, consider admission

MODERATE (5-8)

-Albuterol MDI/spacer 8 puffs OR Duoneb x3 Initial:

-Dexamethasone 0.6mg/kg (max 16mg) or prednisone 2mg/kg (max 60mg)

Assess and score at end of 1st hour:

If score 1-4: DISCHARGE.

If score 5-8: Albuterol MDI/spacer 8 puffs, observe an additional 1 hour.

Assess and score at end of 2nd hour:

If score 1-4: DISCHARGE.

If score 5-8: Albuterol MDI/spacer 8 puffs, consider admission.

SEVERE (9-12)

Initial: Duonebs x3, IV, Solumedrol 2mg/kg (max 125mg), consider IM Epi (0.01mg/kg of 1:1000), consider magnesium sulfate 50mg/kg (max 2gm)

Assess and score at end of 1st hour:

If score 1-4: observe

If score 5-8: observe

If score 9-12: Continuous albuterol and PICU admission

Assess and score at end of 2nd hour:

If score 1-4: DISCHARGE

If score 5-8: Albuterol MDI/spacer 8 puffs; Admission to floor

Continuous dosing:

<10kg: 7.5mg/hr</p>

• 10-20kg: 10mg/hr

• >20kg: 15mg/hr

• >40kg: 20mg/hr