

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 4-5 yr 6-12 yr >12 yr		≤34 ≤30 ≤26 ≤23	35-39 31-35 27-30 24-27	≥40 ≥36 ≥31 ≥28
Retractions	None	Subcostal or intercostal	2 of the following: subcostal, intercostal, substernal	3 of the following: intercostal, substernal, suprasternal, supraclavicular, OR nasal flaring/head bobbing /grunting
Dyspnea: 2-4 yr ≥ 4 yr	Normal feeding, vocalizations, & play Counts for ≥10 in 1 breath	1 of the following: difficulty feeding, decreased vocalization, or agitated Counts to 7-8 in one breath	2 of the following: difficulty feeding, decreased vocalization, or agitated Counts to 4-6 in one breath	Stops feeding, no vocalization; drowsy/confused Count to ≤3 in one breath
Auscultation	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)

Initial: -Albuterol MDI/spacer 8 puffs OR Duoneb x3
-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
- 10-20kg: 10mg/hr
- >20kg: 15mg/hr
- >40kg: 20mg/hr