


Clinical Guideline

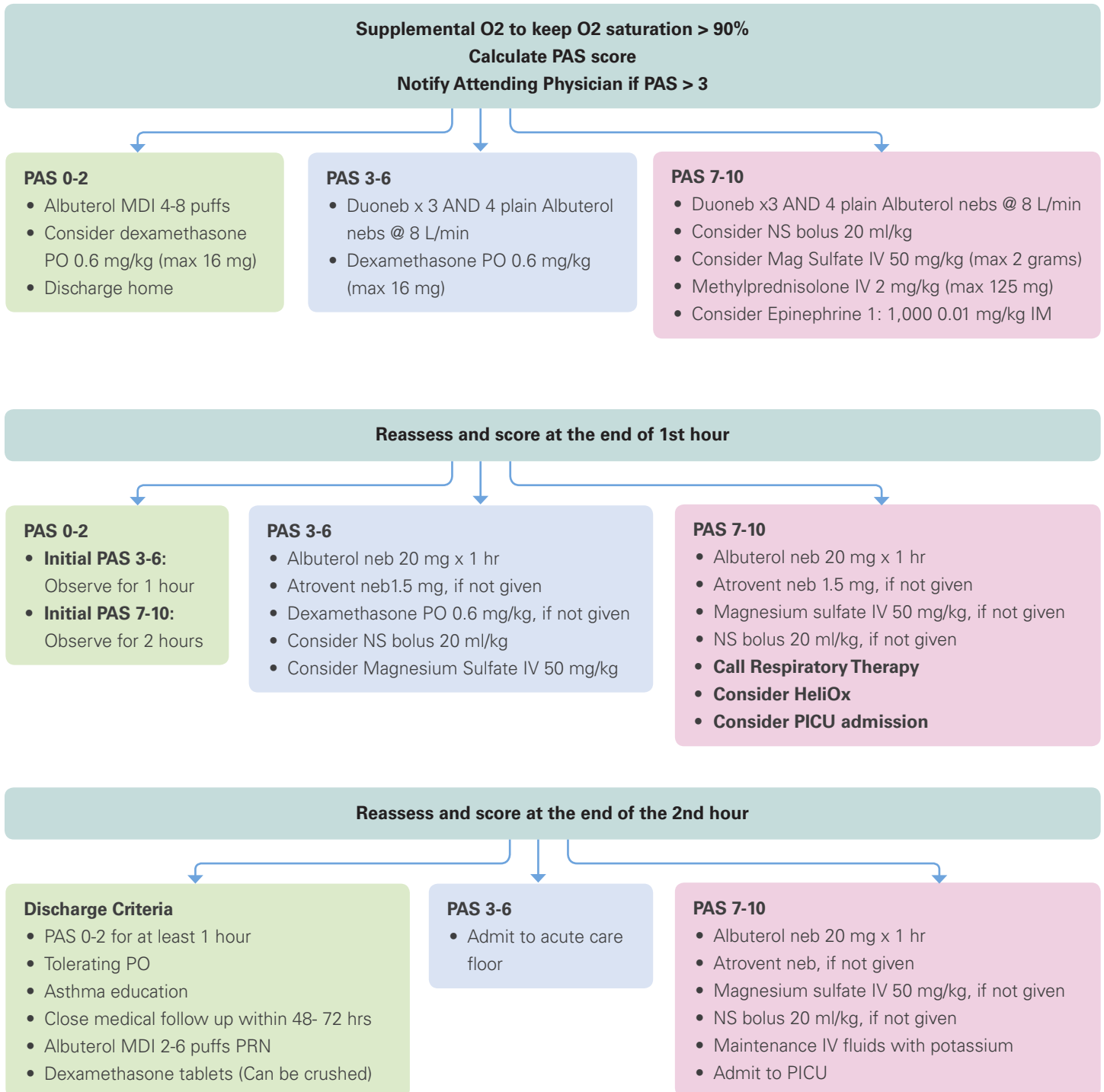
ED Asthma

Pediatric Emergency Medicine

 This guideline serves as a guide and does not replace clinical judgment.

Inclusion criteria:

- Children \geq 2 y/o
- Known history of asthma
- History consistent with asthma or recurrent wheezing



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Instructions for assessment of PAS

1. If applicable, turn oxygen therapy off on entry into patient's room.
2. Step-wise assessment (RR, dyspnea, retractions, auscultation).
3. Throughout assessment, monitor oxygen saturation. Determine score for oxygen saturation based on overall assessment throughout exam (i.e. an unsustained downward drift to 88% with self-resolution to 94% would be scored as "1." Alternatively, a progressive decline in saturations from 97% to 85% following cessation of O2 should be scored as "2" and oxygen therapy should be resumed immediately).
4. Calculate total score

Table 1: (Modified) Pediatric Asthma Score (PAS):

Variable	Score		
	0 points	1 point	2 points
Resp Rate (b/min)			
2-3 years	<35	35-39	>39
4-5 years	<31	31-35	>35
6-12 years	<27	27-30	>30
>12 years	<24	24-27	>27
Dyspnea	Full sentences and Good PO intake	Partial sentences or poor PO	Single words or unable to PO
Retractions*	1 or less accessory group	2 accessory groups	3 or more accessory groups
Auscultation	Normal breath sounds	Expiratory wheezing only	Inspiratory and expiratory wheezing or diminished breath sounds
Oxygen Sats (%) On Room Air	>95	90-95	<90

*Accessory muscle groups considered in evaluation of retractions:

1. Nasal (flaring)
2. Supra-sternal (retractions)
3. Intercostals (retractions)
4. Substernal (retractions)

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Executive Summary

Children's Hospital of Richmond at VCU ED Asthma Workgroup

Pediatric Emergency Medicine Owner: Rashida Woods, MD

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Approved (August 2018)

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References

Keeney GE¹, Gray MP, Morrison AK, Levas MN, Kessler EA, Hill GD, Gorelick MH, Jackson JL. Dexamethasone for acute asthma exacerbations in children: a meta-analysis. *Pediatrics*. 2014 Mar; 133 (3):493-9. Epub 2014 Feb 10. Pubmed PMID: 24515516.

National Asthma Education and Prevention Program: Expert panel report III: Guidelines for the diagnosis and management of asthma. Bethesda, MD: National Heart, Lung, and Blood Institute, 2007. www.nhlbi.nih.gov/guidelines/asthma/asthgdln.htm

Rowe BH¹, Bretzlaff JA, Bourdon C, Bota GW, Camargo CA Jr. Magnesium sulfate for treating exacerbations of acute asthma in the emergency department. *Cochrane Database Syst Rev*. 2000; (2):CD001490. Pubmed PMID:10796650.

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Retrieval website: <http://www.chrichmond.org/clinicalguideline-EDasthma>

Example:

Children's Hospital of Richmond at VCU, Woods R, Willson D, Hanson C. ED Asthma Guideline. Available from: <http://www.chrichmond.org/clinicalguideline-EDasthma>