Child Admitted for Status Asthmaticus

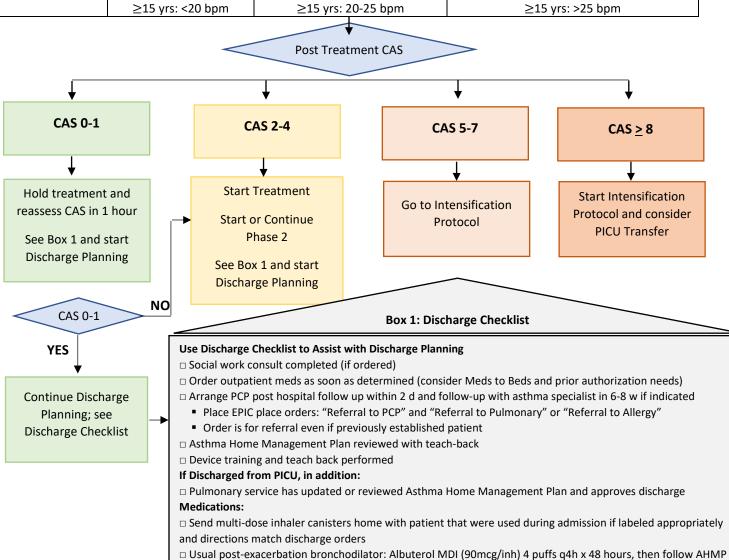
Last Update: 9.06.2024

Inclusion: > 2 year with respiratory symptoms and h/o wheeze, albuterol use, or asthma **NOTE**: may be used in children > 1 year at discretion of attending physician

Inpatient Floor Admission Criteria: Must be able to tolerate Albuterol Q2 hour treatments

- Start the patient at Phase 2 and continue to assess using the Rainbow Clinical Asthma Score (CAS)
- RT/RN may advance patient to Phase 3 if multiple Phase 2 treatments given while awaiting inpatient admission
- Medical team to place orders using Asthma Inpatient Order Set and order the asthma carepath

▼			
	0 – None/Mild	1 – Moderate	2 – Severe
Wheeze	None or end expiratory	Inspiratory and/or expiratory	Breath sounds becoming inaudible
	wheezes	wheezes	
Accessory	None	Intercostal and/or	Intercostal and/or tracheosternal muscles
Muscle Usage		tracheosternal	PLUS use of sternocleidomastoid muscles
Air Exchange	Equal all lobes	Decreased in some lobes	Decreased in all lobes
Oxygenation	SpO2 ≥94% on room air	SaO2 < 94% on room air OR	SaO2 <94% on supplemental O2
		SaO2 ≥ 94% on supplemental O2	
Respiratory Rate	1-5 yrs: <30 bpm	1-5 yrs: 30-35 bpm	1-5 yrs: >35 bpm
	6-14 yrs: <25 bpm	6-14 yrs: 25-30 bpm	6-14 yrs: >30 bpm
	≥15 yrs: <20 bpm	≥15 yrs: 20-25 bpm	≥15 yrs: >25 bpm



□ Complete steroid regimen; administer second dose (Day #2) of Dexamethasone PO if at least 24 h since first

□ Pharmacy staff delivers prescriptions via Meds to Beds if applicable and/or delivers mediation counseling upon

dose OR send script to complete 5-7 days of prednisolone (if post-intensification/post-ICU)

request

Use Discharge Checklist to Assist with Discharge Planning

□ Social work consult completed (if ordered)

Give treatment and repeat CAS

based on current phase

Prepare to Transfer to Floor

(Box 3)

- □ Order outpatient meds as soon as determined (consider Meds to Beds and prior authorization needs)
- □ Arrange PCP post hospital follow up within 2 d and follow-up with asthma specialist in 6-8 w if indicated

Box 1: Discharge Checklist

Give treatment and advance to

the next phase (Phase 3 or 4)

Discharge Planning

- Place EPIC place orders: "Referral to PCP" and "Referral to Pulmonary" or "Referral to Allergy"
- Order is for referral even if previously established patient
- ☐ Asthma Home Management Plan reviewed with teach-back
- ☐ Device training and teach back performed

If Discharged from PICU, in addition:

- □ Pulmonary service has updated or reviewed Asthma Home Management Plan and approves discharge **Medications**:
- □ Send multi-dose inhaler canisters home with patient that were used during admission if labeled appropriately and directions match discharge orders
- ☐ Usual post-exacerbation bronchodilator: Albuterol MDI (90mcg/inh) 4 puffs q4h x 48 hours, then follow AHMP
- □ Complete steroid regimen; administer second dose (Day #2) of Dexamethasone PO if at least 24 h since first dose OR send script to complete 5-7 days of prednisolone (if post-intensification/post-ICU)
- □ Pharmacy staff delivers prescriptions via Meds to Beds if applicable and/or delivers mediation counseling upon request

Box 3: Transfer from PICU to Floor

■ ≥ 20 kg: 10 mg/hour x 6 hours

■ 8.1-15 kg = 8 mg ■ > 20 kg = 16 mg

mg/day) to complete 5-7 day treatment

• 0-8 kg = 4 mg

• Dexamethasone oral X 1 dose, give 24 hour after 1st dose (preferred

■ 15.1-20 kg = 12 mg

 Prednisone/Prednisolone oral (step-down therapy for ICU setting or post-intensification phase): 1mg/kg/dose daily every 24 hours (max 60

steroid for patients that do not require ICU care setting)

Administer Supplemental oxygen to achieve SpO2 >93%

- Patient has received two, q2h albuterol MDI treatments and maintaining CAS score 0-4 for 4 hours
- Patient doesn't meet any other PICU utilization criteria
- Pulmonary service has seen and examined the patient while in PICU

(NOTE: Attending to Attending discussion must occur if all criteria not met and transfer desired/needed based on bed availability)

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restart Phase 1 support is discontinued.

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(NOTE: Attending to Attending discussion must occur if all criteria not met and transfer desired/needed based on bed availability)

- hours PRN
- Steroid: Methylprednisolone sodium succinate IVPB 0.5 mg/kg/dose every 6 hours (maximum 30mg/dose)
- Consider Magnesium bolus
- For status asthmaticus, evidence to support improved outcomes with the use of adjunct therapies such as terbutaline and aminophylline is inconclusive and not recommended for routine use.
 - o These adjuncts may be considered in patients that are not improving on standard therapies and with concern for escalation of respiratory support
 - o See PICU Status Asthmaticus EPIC Order Set for dosing information
- Administer Supplemental oxygen to achieve SpO2 >93%