

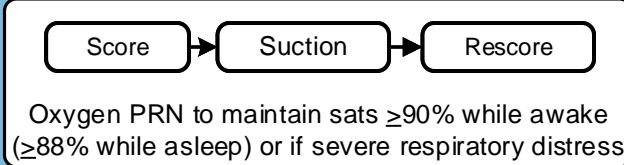
Clinical Practice Guideline for Bronchiolitis Management: Emergency Department

UPDATED
1.2.20



Infants presenting with signs and symptoms of upper respiratory infection progressing to lower respiratory symptoms¹

Blue shaded area represents **Caregiver Initiated Protocol for Bronchiolitis 5-25**



Mild CRS 0-2

Moderate CRS 3-6

Severe CRS ≥7
*Notify physician

For temperature ≥38 C, also refer to **Fever Guideline** for appropriate age group

Continue to evaluate & suction PRN
Assess hydration³

At risk for Asthma²?

Consider One Time Trial Albuterol
If positive response, then Off Guideline and Consider **Asthma Guideline** for Further Management

Suction PRN

Suction PRN
The following are not routinely indicated. Perform only if results are expected to change management:
o High Flow Nasal Cannula
o Blood gas
o Racemic Epinephrine

Reevaluate Assess Hydration³

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Meets Discharge Criteria⁴

Patient/Family Education⁵

Discharge

Admit⁶

**CRS=Clinical Respiratory Score
HFNC= High Flow Nasal Cannula**

Literature shows the following are not beneficial routinely: CBC, CXR, RSV labs, antibiotics, serial aerosols, steroids and/or chest percussion.

¹Inclusion Criteria

- Previously healthy infant
- 1-18 months of age
- Suspicion of diagnosis of bronchiolitis: upper respiratory symptoms such as rhinitis, coughing; lower respiratory signs such as wheezing, crackles, tachypnea, that may result in difficulty breathing and/or difficulty feeding

Exclusion Criteria:

- Toxic Appearance
- CLD (Chronic Lung Disease)
- Cardiac disease requiring baseline medications

Isolation Standard

- Per CDC/HICPAC Guidelines: Contact Droplet Isolation for the duration of the illness

²Risk for Asthma

Patient may be at increased risk for asthma if >12mo old:

- with wheeze plus history of atopy **OR**
- strong family history of atopy or asthma

Respiratory

- Suctioning: Oral, Bulb tip, or NP suctioning as needed; Wean to bulb suctioning

³Feeding/Hydration

- PO feeding preferred if respiratory rate <60
- Intake of 75% maintenance fluid needs is adequate unless dehydrated
- NG feedings preferred to IV fluids unless contraindicated or physician order. **Refer to NG policy: PC 19-02, HS-PC 19-02**
- If giving IVF, avoid hypotonic solution (D5½ and D5½) due to risk of SIADH induced hyponatremia. D5NS or D5LR are preferred maintenance fluids.

⁴Discharge Criteria

- Patient must meet all discharge criteria
- Room air sats consistently ≥ 90% while awake or ≥88% while asleep
 - Able to handle secretions or bulb suctioning only
 - Adequate activity & hydration
 - Home care needs arranged
 - Parent verbalizes/demonstrates understanding of: Natural history of the disease, bulb suctioning, and medications if indicated
 - Parents able to follow-up with PCP within 48 hours or access emergency care if needed
 - Administer influenza vaccine, unless contraindicated, refused, or already given.

⁵Patient/Family Education

- Nasal suctioning
- Signs/symptoms of respiratory distress
- Guidelines for feeding
- Review bronchiolitis teaching sheet
- No smoking in home & avoidance of other environmental pollutants

⁶Admission Criteria

- Persistent Significant WOB or required HFNC
 - O₂ requirement to keep sats ≥90% while awake consistently
 - Unable to handle secretions with bulb suctioning
 - Poor Feeding (Consider Nasogastric tube)
 - Consider if history of apneic episode
- Consider PICU admission if:**
- Multiple episodes of apnea (>1) or any episode requiring bagging
 - PCO₂ > 55, 30-60 minutes after initiation HFNC
 - CRS ≥ 9 despite initiation HFNC
 - FiO₂ ≥ 50%
 - HFNC Max: Less than 3 kg- PICU
 - o >3 kg, see campus specific HFNC Guidelines