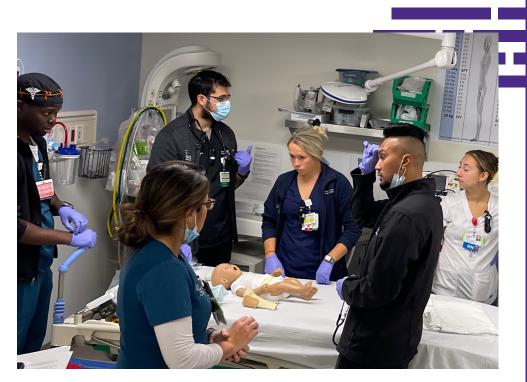
SOUTH SHORE SIMFLUENCER

ISSUE NO 2 | DECEMBER 2023 | VOLUME 1 EDITOR IN CHIEF: LAUREN COOKE-SPORING, DO | LCOOKE@NORTHWELL.EDU EDITORS: WILLIAM APTERBACH, MD; DEBBY YANES, MD



Our respiratory therapists, resident physicians, and registered nurses came together to resuscitate a simulated case of an infant with bronchiolitis

WELCOME TO THE SSUH SIMFLUENCER!

Welcome to the 2nd issue of The SSUH Simfluencer! This monthly newsletter will serve as an educational tool for all faculty, staff, and learners in the emergency department (ED) at South Shore University Hospital. We will go over lessons learned, latent safety threats, and review best practices for managing critically ill patients in the ED.

This month, we discuss takeaways from our most recent pediatric simulation, review bronchiolitis, respiratory severity score, and options for respiratory support in a child with respiratory distress.

Once again, I would like to thank each person who participated in these simulations. Your enthusiasm has made this initiative a success!

WINTER IS COMING...

And that means bronchiolitis is around the corner!

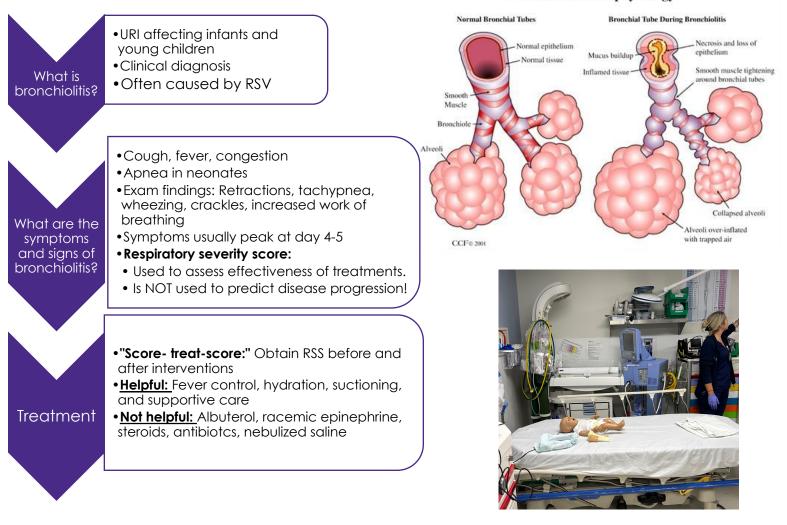
WHAT IS THE RESPIRATORY SEVERITY SCORE?

How do we use this?

OPTIONS FOR RESPIRATORY SUPPORT IN PEDIATRIC PATIENTS

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Bronchiolitis Pathophysiology



*Bronchiolitis Respiratory Severity Score (B-RSS)		Score-Treat-Score		
		1 point	2 points	3 points
RESPIRATORY RATE (Bronchiolitis)	0-2 m.	= 70	71 - 80	> 80
	2-6 m.	= 60	61 - 70	> 70
	6-12 m.	= 50	51 - 60	> 60
	1-2 у.	= 40	41 - 44	= 45
Supplemental O2 required to maintain SpO2 = 90% (Bronchiolitis)		Room air	21% - 45% FiO2	> 45% FiO2
RETRACTIONS		None OR Intercostal	Intercostal and Substernal	Intercostal, Substernal, and Supraclavicular
AUSCULTATION		No crackles/wheezing, clear to mild end expiratory crackles/wheeze, scattered crackles/wheeze	Coarse crackles/wheeze throughout expiratory phase	Inspiratory and expiratory coarse crackles/wheeze or little to no audible air movement

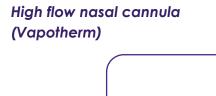
*Tally score from each category to get the total RSS. Min RSS = 4, Max = 12.

B-RSS should be used before and after a nebulized respiratory treatment. The B-RSS is not a validated tool to predict disease progression and should not be used for admission and discharge decisions.

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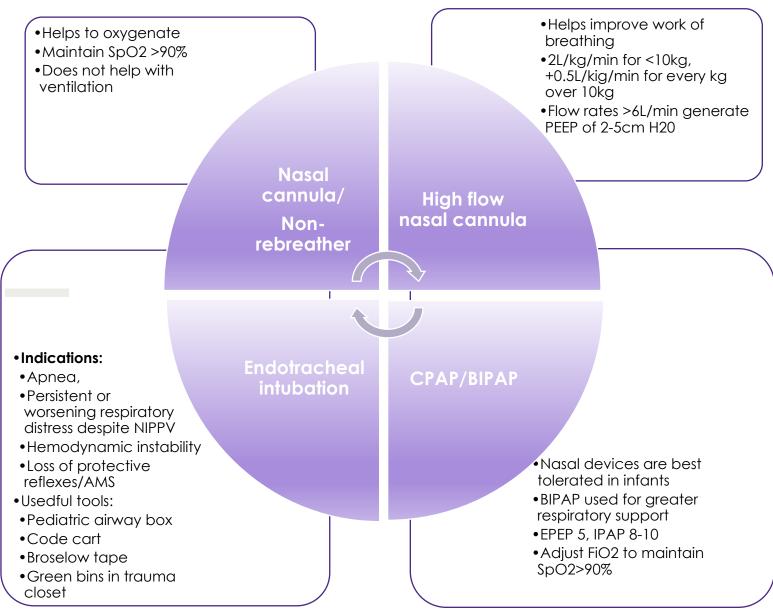
HOW CAN I **SUPPORT MY** PEDIATRIC **PATIENT'S BREATHING?**







BIPAP/CPAP

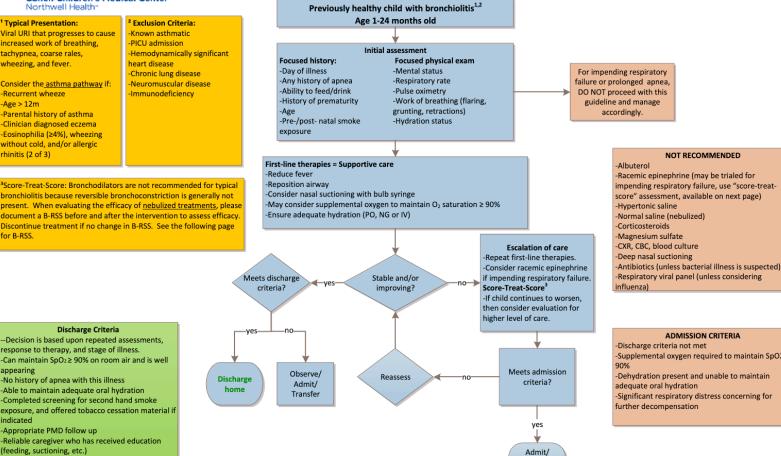


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TAKEAWAYS

- Use your available resources!
 - Broselow 0
 - Pediatric code calculator 0
 - 0 PediSTAT
- Bronchiolitis is a CLINICAL diagnosis
- Treatment largely consists of SUPPORTIVE CARE
 - 0 Suction
 - Fever control 0
 - Hydration 0
 - Respiratory support 0
- Review your RSS!!!
 - "Score-Treat-Score" 0
- Review your options for respiratory support in pediatrics
 - High flow nasal cannula
 - CPAP/BIPAP 0
- All airway equipment should be in TRAUMA CLOSET in GREEN BINS

Cohen Children's Medical Center



Bronchiolitis – ED Pathway

Date of approval 9/23/2022

ADMISSION CRITERIA Discharge criteria not met -Supplemental oxygen required to maintain SpO2 ≥ Dehydration present and unable to maintain adequate oral hydration -Significant respiratory distress concerning for further decompensation

Transfer

**For more comprehensive details and references, please see accompanying guideline technical report, "Emergency Department Management of Bronchiolitis," which can be found here This document is intended as a general guideline.

The healthcare professional must use the appropriate judgment dependent on the particular clinical situation

QUESTIONS? CONCERNS? TOPICS YOU WOULD LIKE TO SEE ADDRESSED USING SIMULATION?

Please reach out to us and let us know!

Lcooke@northwell.edu

Thanks!

-Lauren, Will, and Debby



©DRLOCOSPODO

Check out some media from our recent simulation activities on instagram!