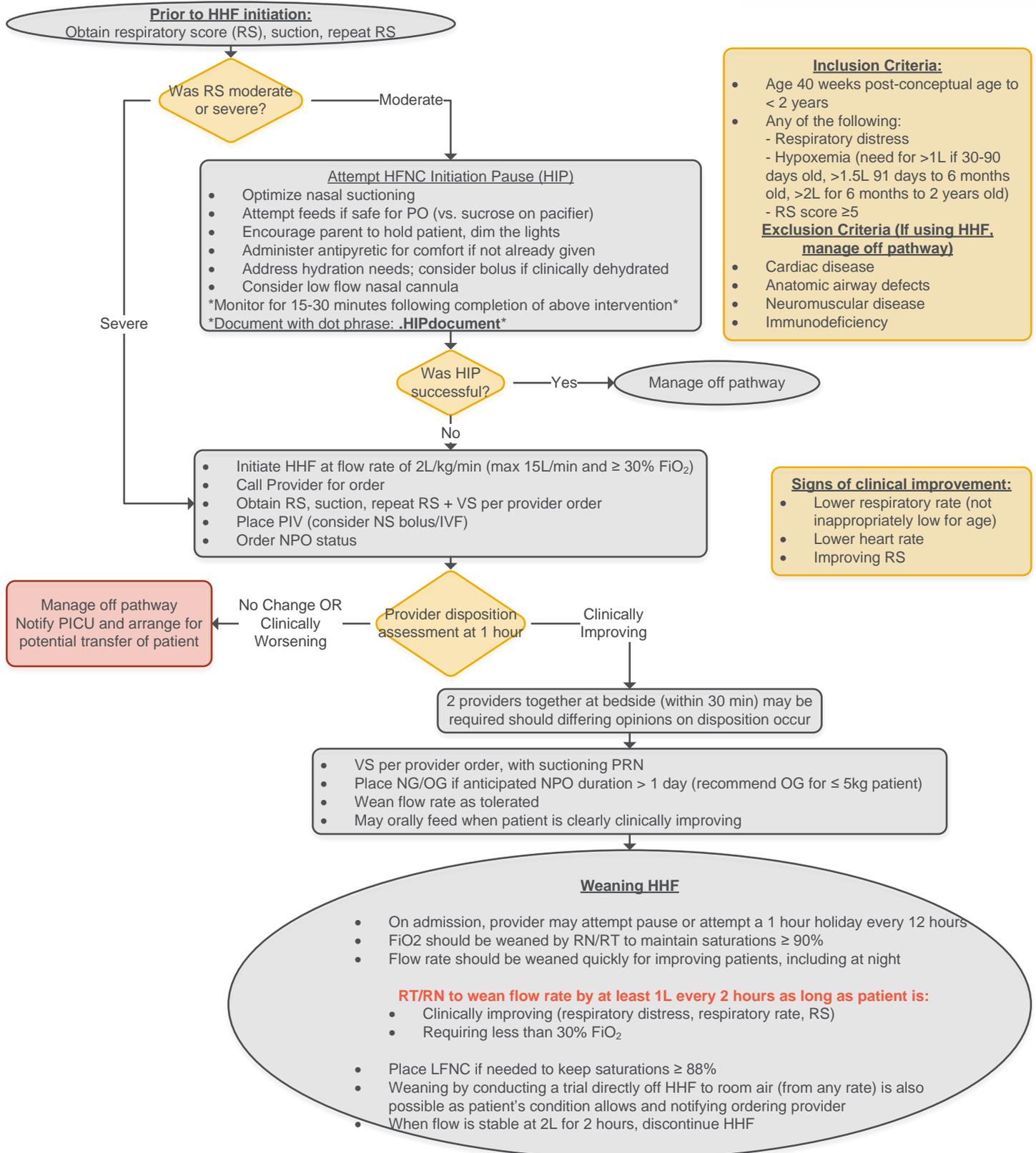


HEATED HIGH FLOW (HHF)



Inclusion Criteria:

- Age 40 weeks post-conceptual age to < 2 years
- Any of the following:
 - Respiratory distress
 - Hypoxemia (need for $>1L$ if 30-90 days old, $>1.5L$ 91 days to 6 months old, $>2L$ for 6 months to 2 years old)
 - RS score ≥ 5

Exclusion Criteria (If using HHF, manage off pathway)

- Cardiac disease
- Anatomic airway defects
- Neuromuscular disease
- Immunodeficiency

Signs of clinical improvement:

- Lower respiratory rate (not inappropriately low for age)
- Lower heart rate
- Improving RS

HEATED HIGH FLOW (HHF)



Criteria to transfer to the ICU:

- Clinical worsening on HHF trial
- Reoccurring apnea > 20 seconds requiring intervention
- Reoccurring desaturations with increased FIO₂ needs of >60% FIO₂
- Altered mental status (irritability, lethargy)
- Poor perfusion, cool extremities, capillary refill > 3 seconds

Criteria for transfer from ICU to floor

- Meets pathway criteria, stable on flow rate at 80% of floor maximum for ≥ 4 hours AND RS <8 prior to transfer

Respiratory Score

Children's Hospital & Medical Center wishes to acknowledge the work of Dr. Russ Migita and Dr. Lynda Ken of Seattle Children's Hospital in the development of this pathway/tool.

Variable	0 points	1 point	2 points	3 points
RESPIRATORY RATE				
< 2 months		≤ 60	61 - 69	≥ 70
2 - 12 months		≤ 50	51 - 59	≥ 60
1 - 2 years		≤ 40	41 - 44	≥ 45
2 - 3 years		≤ 34	35 - 39	≥ 40
RETRACTIONS				
	None	Subcostal or intercostal	2 of the follow ing: - Subcostal - Intercostal - Substernal - Nasal flaring (infant)	3 of the follow ing: - subcostal - intercostal - Substernal - Suprasternal - Supraclavicular - Nasal flaring or head bobbing (infant)
DYSPNEA				
0 - 2 years	Normal feeding, vocalizations, and activity	1 of the follow ing: - Difficulty feeding - Decreased vocalization - Agitated	2 of the follow ing: - Difficulty feeding - Decreased vocalization - Agitated	- Stops feeding OR - No vocalizations OR - Drow sy or confused
2 - 4 years	Normal feeding, vocalizations, and play	1 of the follow ing: - Decreased appetite - Increased coughing after play - Hyperactivity	2 of the follow ing: - Decreased appetite - Increased coughing after play - Hyperactivity	- Stops eating or drinking OR - Stops playing OR - Drow sy or confused
AUSCULTATION				
	Normal breathing, no w heezing present	End-expiratory w heeze only	Expiratory w heeze only (greater than end-expiratory w heeze)	Inspiratory and expiratory w heeze OR Diminished breath sounds OR Both