INITIAL NIPPV AND WEANING GUIDELINE ON AVEA/FLEXITRUN Childreevs (>28 WKS AT BIRTH)						v.12-11-20	
INITIAL NIPPV SETTINGS: Total PIP 16, PEEP 6, Rate 20, i-Time 0.5 sec.							
• Ta	 Target initial MAP to approximate same as on ventilator, if just extubated 						
• Ti	Titrate to attain comfortable WOB, good 'roar,' appropriate blood gases						
• M	• MAX Settings: Total PIP 22-26, PEEP 8-10, Rate 50, i-Time 0.5 sec. (Note that max settings likely to be lower in						
acute phase; consider giving surfactant in acute phase if meets criteria.)							
LAB WOF	RK:		•				
• POCT gases one hour following initiation and PRN (daily suggested if FiO2 >30%). Consider decreased frequency if							
TCOM in place and correlating, or if in chronic phase of lung disease.							
MEDICAT	IONS:						
See Surfactant Delivery Guidelines.							
 Caffeine 25 mg/kg IV x 1 load upon admission, then 10 mg/kg IV q 24hrs. 							
ADDITIONAL CONSIDERATIONS:							
CXR within 24 hours and PRN to assess for over/underinflation.							
 Strict avoidance of overtightening headgear straps and pressure/folding of ear pinna. 							
Transcutaneous pCO ₂ monitor.							
 Minimize time "off" NIPPV (<30sec) when switching mask/prongs to avoid atelectasis. 							
		FOR NIPPV MANAGEME		~			
		Immediate Evaluation	Increase	Hold	Wean	Immediate Evaluation	
Age		*Notify Provider*	PIP or rate		PIP or rate	*Notify Provider*	
_		Recheck gas 30-60"				Aggressive Wean	
		after intervention	pCO2	pCO2	pCO2	Recheck gas 30-60"	
0-72h	ABG/CBG	pH <7.2 OR pCO2 >70	56-70	45-55	40-45	pH >7.45 OR pCO2 <40	
3+days ABG/CBG pH <7.2 OR pCO2 >70 66-70 50-65 40-49 pH >7.45 OR pCO2 <40							
 Notify Provider if FiO2 >50% or rapidly increasing, or for worsening of A/B/D severity. 							
• Ai	ny value in "imn	nediate evaluation" categor	y takes precede	ence.			
• Ai	 Any gas rechecks due to "immediate evaluation" category are in addition to routinely scheduled gases. 						
 Titrate settings until stable in Hold range for 24-72h, then proceed to Weaning Approach. 							
WEANING APPROACH:							
 Wean <u>as tolerated</u> until CPAP Criteria reached. 							
 PIP changes should generally be by 2cm/change. Rate changes should be by 5-10 breaths/change. 							
CPAP CRITERIA							
 Wean toward a mean airway pressure on NIPPV settings that can be approximated by straight CPAP. 							
 Infants who are ≥ 28wks and require NIPPV may be considered for wean to CPAP after 24h of stability on above 							
settings.							
Consideration may be given to trial of CPAP sooner in select infants with abd distention, however there should be							
low threshold for returning to NIPPV as evidence shows this decreases risk for intubation/reintubation.							
Refer to CPAP/BPD Guideline							
EXTUBA	FION FAILURE	CRITERIA:					
v.5-10-19 Initial Intubation Criteria /Extubation Failure Criteria/Reintubation Criteria							
Considerations Intubation should occur if criteria below are met on NIPPV							
	siderations •	Intubation should occur					
		Intubation should occur	Initial intuba				
	FiO2			tion: >40%	for >2h		
		E	Initial intuba Extubation failur 2.2 (and CO2 as	ition: >40% e or reintuba below, i.e. r	for >2h ation: >50%		
	FiO2 pH	E	Initial intuba Extubation failur 7.2 (<u>and</u> CO2 as 0	ition: >40% e or reintuba below, i.e. r -72h: 65	for >2h ation: >50%		
	FiO2	E <7	Initial intuba Extubation failur 2.2 (and CO2 as 0 3-1 3-1	tion: >40% e or reintuba below, i.e. r -72h: 65 -days: 70	for >2h ation: >50% not metabolic)		
	FiO2 pH pCO2	E <7 ≥6 apnea episodes o	Initial intuba Extubation failur 2.2 (and CO2 as 0 3-1 r significant brac	tion: >40% <u>e or reintuba</u> below, i.e. r -72h: 65 ⊦days: 70 dys requiring	for >2h ation: >50% not metabolic) g stimulation in 6	consecutive hrs	
	FiO2 pH pCO2 Apnea	E <7 ≥6 apnea episodes ol C	Initial intuba Extubation failur 7.2 (and CO2 as 0 3+ 3+ x significant brac DR >1 episode re	tion: >40% e or reintuba below, i.e. r -72h: 65 days: 70 dys requiring equiring PP	for >2h ation: >50% not metabolic) g stimulation in 6 / in 12h shift		
	FiO2 pH pCO2 Apnea Other	E <7 ≥6 apnea episodes ol C	Initial intuba Extubation failur 7.2 (and CO2 as 0 3+ 3+ r significant brac 0R >1 episode ro ys allow provide	tion: >40% e or reintuba below, i.e. r -72h: 65 -days: 70 dys requiring equiring PP\ r discretion	for >2h ation: >50% not metabolic) g stimulation in 6		