

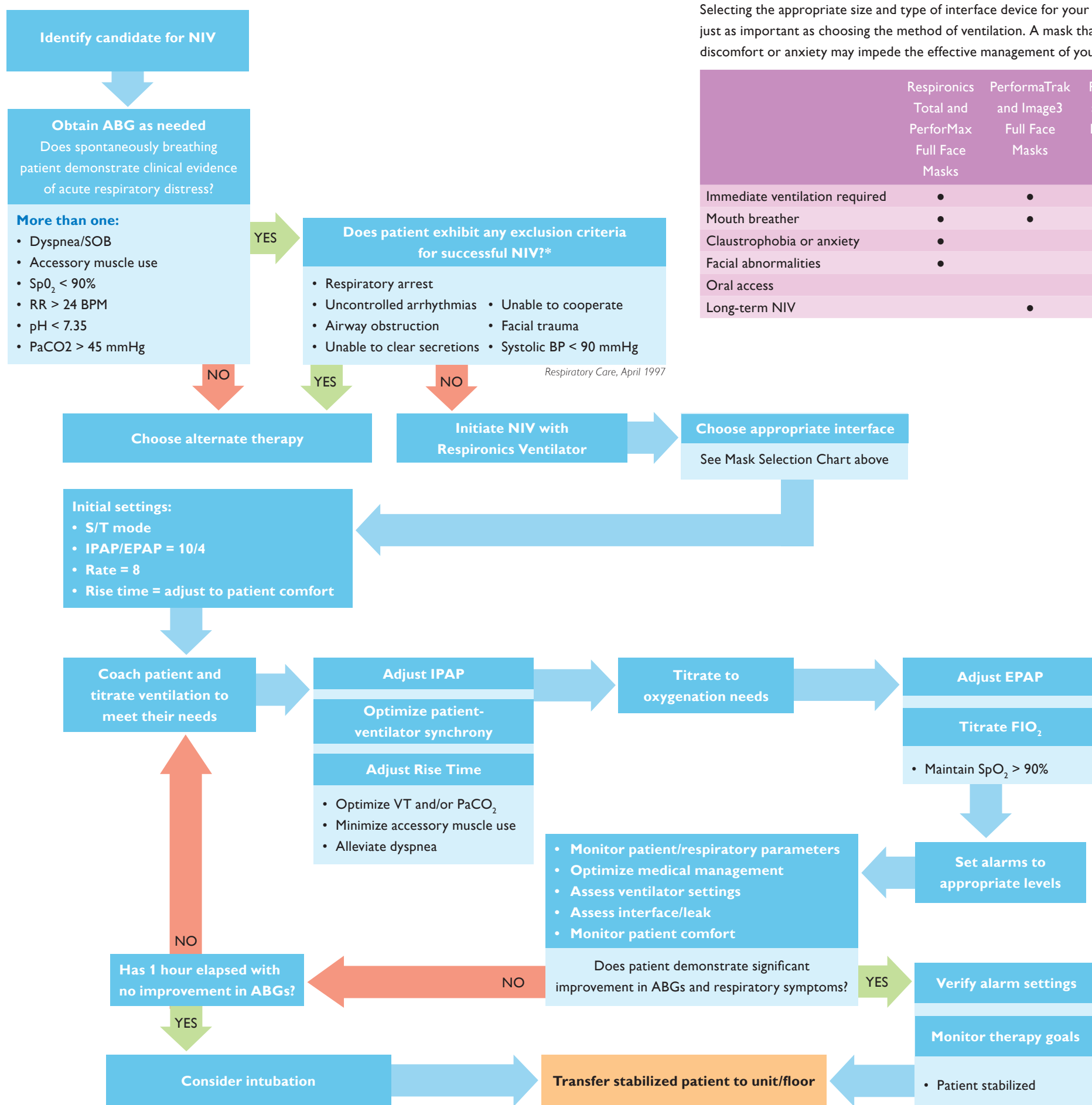
# Guidelines for NIV

Managing acute respiratory insufficiency and failure in the emergency department

## Mask Selection Chart

Selecting the appropriate size and type of interface device for your patient is just as important as choosing the method of ventilation. A mask that causes discomfort or anxiety may impede the effective management of your patient.

	Respironics Total and PerforMax Full Face Masks	PerformaTrak and Image3 Full Face Masks	PerformaTrak and Contour Deluxe Nasal Masks
Immediate ventilation required	•	•	
Mouth breather	•	•	
Claustrophobia or anxiety	•		
Facial abnormalities	•		•
Oral access			•
Long-term NIV		•	•



### Adjustments to Improve Oxygenation

Management of patients unable to adequately oxygenate requires adjustment of EPAP and/or FIO<sub>2</sub>. This can be achieved with adjustments to EPAP in increments of two (2 cmH<sub>2</sub>O) to achieve the desired SaO<sub>2</sub>. NOTE: An increase in EPAP without a simultaneous increase in IPAP will decrease positive pressure support. Tidal volume will usually decrease and cause an increase in PaCO<sub>2</sub>. Therefore, to maintain the same ventilation IPAP should be increased at the same level EPAP is increased.

### Backup Rate

Setting the rate on a Respironics Ventilator ensures that the patient will receive a breath if apneic episodes should occur. The delivery of a machine breath is based upon the time period determined by the set rate. EXAMPLE: A rate set at 10 BPM will have a six-second window of time before the machine will deliver a timed breath to the patient. However, if the patient initiates a spontaneous breath at least every six seconds, the ventilator will not deliver a machine breath.

### Adjustment to Improve Ventilation

Patients experiencing ventilation difficulties and exhibiting signs such as dyspnea, rapid respiratory rate, excessive accessory muscle use and/or an increased PaCO<sub>2</sub> will often benefit from appropriate IPAP adjustments. To adjust for optimal ventilation, increase the IPAP level in increments of two (2 cmH<sub>2</sub>O) to relieve symptoms of respiratory distress.

IMPORTANT: THESE GUIDELINES ARE INTENDED TO SERVE ONLY AS A REFERENCE. THEY SHALL BE USED ONLY IN CONJUNCTION WITH THE INSTRUCTIONS AND/OR PROTOCOL SET FORTH BY THE PHYSICIAN AND INSTITUTION IN WHICH THE ASSIST DEVICE IS BEING USED. THE GUIDELINES ARE NOT INTENDED TO SUPERSEDE ESTABLISHED MEDICAL PROTOCOLS.

**PHILIPS**

sense and simplicity