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| Criteria for failure to sustain pressure support ventilation trial |
| Clinical assessment and subjective indices | Agitation and anxiety |
|  | Depressed mental status |
|  | Diaphoresis |
|  | Cyanosis |
|  | Evidence of increased effort |
|  |  Increased accessory muscle activity Facial sings of distress Dyspnoea |
| Objective measurements | PaO2 ≤ 50-60 mmHg on FiO2≥0.5 or SaO2 < 90%  |
|  | PaCO2 > 50 mmHg or an increase in PaCO2 > 8 mmHg |
|  | pH < 7.32 or a decrease in pH ≥ 0.07 units |
|  | fR/Vt > 105 breaths/min/l |
|  | fR > 35 breaths/min or increased by 50% |
|  | fC > 140 beats/min or increased by ≥ 20% |
|  | Systolic BP > 180 mmHg or increased by ≥ 20% |
|  | Systolic BP < 90 mmHg |
|  | Cardiac arrhythmias |

Supplemental Digital Content 1. **Criteria for** **failure to sustain pressure support ventilation** **trial**1. Abbreviation: PaO2, arterial oxygen tension; FiO2, inspiratory oxygen fraction; SaO2, arterial oxygen saturation; PaCO2, arterial carbon dioxide tension; fR, respiratory frequency; Vt, tidal volume; fC, cardiac frequency; BP, blood pressure.

**Reference**

1. McConville JF, Kress JP: Weaning patients from the ventilator. N Engl J Med 2013; 368: 1068-9