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| Criteria for postextubation distress |
| fR > 25 breaths/ min for 2 h |
| fC > 140 beats/min or sustained increase or decrease of > 20% |
| Clinical signs of respiratory muscle fatigue or increased work of breathing |
| SaO2 < 90%; PaO2 < 80 mmHg on FiO2 ≥ 0.50  Hypercapnia (PaCO2 > 45 mmHg or ≥ from pre-extubation), pH < 7.33 |

Supplemental Digital Content 2. **Criteria for postextubation distress**1. Abbreviation: fR, respiratory frequency; fC, cardiac frequency; SaO2, arterial oxygen saturation; PaO2, arterial oxygen tension; FiO2, inspiratory oxygen fraction; PaCO2, arterial carbon dioxide tension.

**References**.

1. MMacIntyre NR, Cook DJ, Ely EW, Jr., Epstein SK, Fink JB, Heffner JE, Hess D, Hubmayer RD, Scheinhorn DJ: Evidence-based guidelines for weaning and discontinuing ventilatory support: a collective task force facilitated by the American College of Chest Physicians; the American Association for Respiratory Care; and the American College of Critical Care Medicine. Chest 2001; 120: 375S-95S