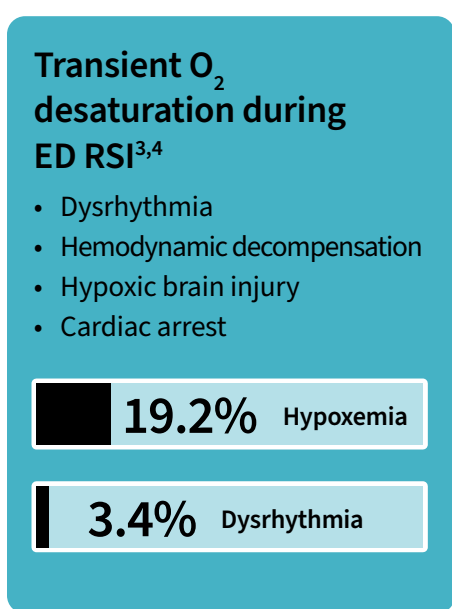


# Rapid Sequence Intubation (RSI) in the ED

The importance of EtO<sub>2</sub> monitoring to support patient preoxygenation

RSI evidence shows significantly high rate of adverse outcomes in ICU and ED compared with anesthetic practice<sup>1</sup>

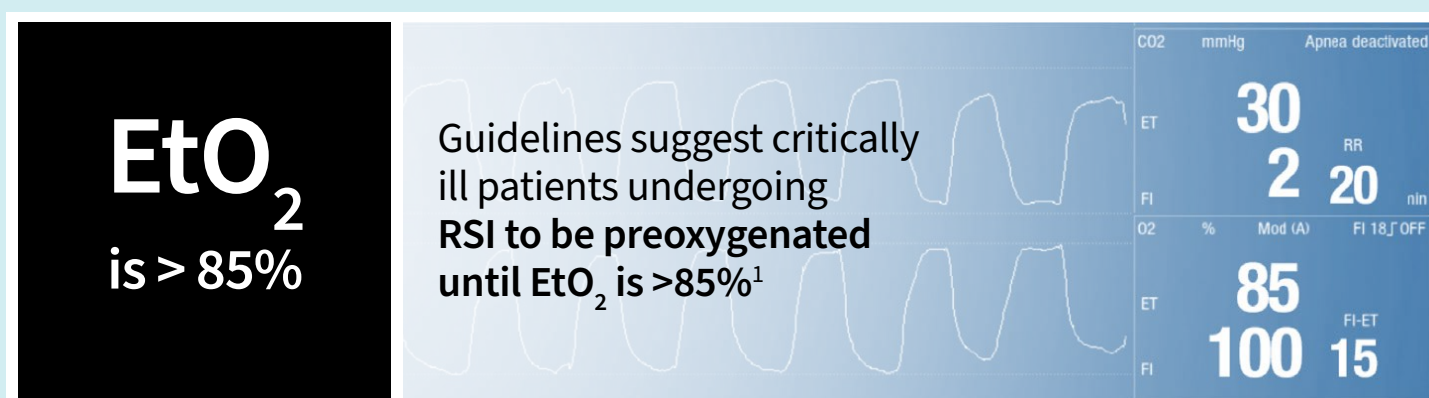


The NAP4 guidelines suggested standard monitoring for ED, ICU, WARD<sup>1</sup>

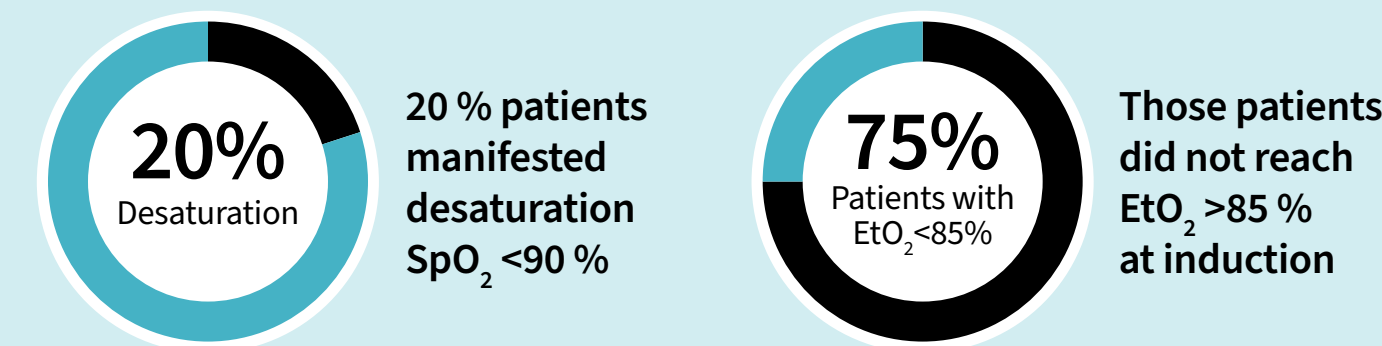
- ECG
- Oximetry
- Heart rate
- Blood pressure
- Waveform capnography
- End-tidal oxygen concentration (when available)



## Optimizing preoxygenation with EtO<sub>2</sub> Monitoring

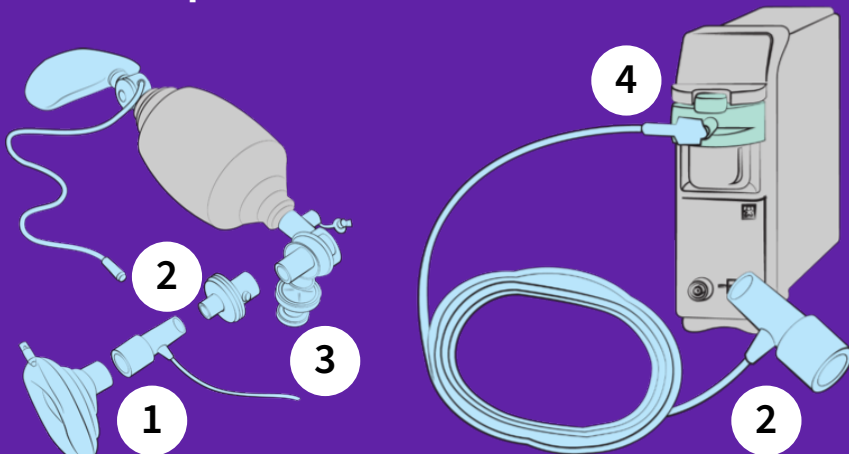


Evidence<sup>6</sup> demonstrated that during RSI:



The use of a gas analyzer to measure FiO<sub>2</sub> and EtO<sub>2</sub> can provide a reliable measure of patient oxygenation during RSI<sup>7</sup>

1. Bag mask valve (BMV)
2. Airway adapter
3. HMEF filter
4. E-sCO module



1. Higgs, A., et al., Guidelines for the management of tracheal intubation in critically ill adults. Br J Anaesth, 2018. 120(2): p. 323-352.
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3. Pourmand, A., et al., Pre-oxygenation: Implications in emergency airway management. Am J Emerg Med, 2017. 35(8): p. 1177-1183.
4. Reid, C., et al., The who where, and what of rapid sequence intubation: Prospective observational study of emergency RSI outside the operating theatre. Emerg Med J, 2004. 21:296-301.
5. Bodily, J.D., et al., Incidence and duration of Continuously Measured Oxygen Desaturation During emergency department intubation. Ann Emerg Med, 2016. 67(3): 389-395.
6. Caputo, N.D., et al., Use of End Tidal Oxygen Monitoring to Assess Preoxygenation During Rapid Sequence Intubation in the Emergency Department. Ann Emerg Med, 2019. 74(3): p. 410-415.
7. Murphy, S., et al., Novel Use of a Gas Analyzer Can Reliably Predict the Arterial Oxygen among Emergency Department Patients Undergoing Rapid Sequence Intubation. The Journal of Emergency Medicine, 2020.

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