Supplementary Figure 1. Consort Diagram

Enrollment

Assessed for eligibility (n=27)

Excluded (n=7)
- Not meeting inclusion criteria (n=2)
- Declined to participate (n=4)
- Other reasons (n=1)

Randomized (n=20)

Allocation

Allocated to intervention (n=10)
- Received allocated intervention (n=10)
- Did not receive allocated intervention (give reasons) (n=0)

Allocated to intervention (n=10)
- Received allocated intervention (n=10)
- Did not receive allocated intervention (give reasons) (n=0)

Follow-Up

Lost to follow-up (give reasons) (n=0)
Discontinued intervention (give reasons) (n=0)

Lost to follow-up (give reasons) (n=0)
Discontinued intervention (give reasons) (n=0)

Analysis

Analysed (n=10)
- Excluded from analysis (give reasons) (n=0)

Analysed (n=10)
- Excluded from analysis (give reasons) (n=0)
Supplementary Figure 2. (A) Sham Oxygen, (B) Buccal Oxygen. Tracheal oxygen concentration profiles during study period.
**Supplementary Figure 3.** Representative tracheal pressure trace during facemask ventilation. Note the y-axis range defaults to -10 to +10 cm H₂O, but this does not prevent higher pressures being detected and displayed.