Patients assessed for eligibility (n = 51)

- Excluded (n = 16)
  - Refused to participate (n = 6)
  - Inability to consent (n = 1)
  - SaO₂ ≤ 90% without oxygen (n = 0)
  - Chemotherapy ≤ 3 months (n = 4)
  - Another surgery ≤ 30 days (n = 2)
  - Not asked (n = 3)

- Refused to participate (n = 6)
- Inability to consent (n = 1)
- SaO₂ < 90% without oxygen (n = 0)
- Chemotherapy < 3 months (n = 4)
- Another surgery < 30 days (n = 2)
- Not asked (n = 3)

Randomized (n = 35)

Allocated to FiO₂ 0.30 (n = 15)
- Received allocated intervention (n = 15)

Allocated to FiO₂ 0.80 (n = 20)
- Received allocated intervention (n = 20)

Intention-to-treat analysis

- PaO₂/FiO₂: End of anesthesia (n = 15)
- PaO₂/FiO₂: 90 min postoperatively (n = 15)
- Change in FRC
  - No FRC measurement because of Instrumental failure (n = 5)
  - Data quality low postoperatively* (n = 2)

Change in arterial peripheral saturation

- Preoperative measurement (n = 15)
- 2 h after extubation (n = 15)
- 3 days after surgery (n = 11)
- Discharged from hospital (n = 3)
- Died before measurement (n = 1)

Per-protocol analysis

- Major violation (n = 2)
  - Increased PEEP, FiO₂ and lung recruitment manoeuvre (n = 1)
  - Increased FiO₂ (n = 1)

Analysis of
- PaO₂/FiO₂: End of anesthesia (n = 13)
- PaO₂/FiO₂: 90 min postoperatively (n = 13)
- Change in FRC (n = 7)

Per-protocol analysis

- Major violation (n = 1)
- Failure to use oxygen mask (n = 1)

Analysis of
- PaO₂/FiO₂: End of anesthesia (n = 20)
- PaO₂/FiO₂: 90 min postoperatively (n = 18)
- Change in FRC (n = 12)