Figure 1.

Patients scheduled for planned or unplanned abdominal or abdominal and thoracic surgery (with an expected duration of more than 2 hours) at intermediate or high risk of postoperative pulmonary complications

- Excluded

Informed consent before surgery (patient or next of kin)

- Excluded

Randomized 220 patients

- Standard oxygen therapy after extubation (up to Day-1)
  110 patients
  - Oxygen flow rate adapted to maintain SpO₂ ≥ 95%

- HFNC oxygen therapy after extubation (up to Day-1)
  110 patients
  - Flow rate of 50-60 L/min
  - FiO₂ adapted to maintain SpO₂ ≥ 95%

Postoperative follow-up
daily up to postoperative Day-7 and until hospital discharge