

Appendix C: Inclusion and Exclusion Criteria

Observations with negative paO_2 values were excluded. Then, surgeries with invalid parameters were excluded; those were missing or negative data on postoperative length-of-stay, missing or measured creatinine values of <0.2 mg/dL, a BMI <14 or >60 kg/m², an initial intraoperative p/F ratio <300 mmHg (indicating impaired lung oxygenation), and surgeries with less than 5 min incision-to-closure time or mechanical ventilation times and negative times to incision or to end. Secondly, observations with negative ABG values or missing FiO_2 , CO_2 , or SpO_2 were excluded. Additional exclusion criteria consisted of measured hemoglobin levels <5 g/dL [1, 2], recorded blood pH values <6.8 , a heart rate ≥ 20 /min, a respiratory rate <5 /min, a respiratory minute volume <2 l/min. We also removed observations with body temperature measurements $<32^\circ\text{C}$, which we interpreted as a disconnected temperature sensor. Additionally, observations with measured paO_2 values <60 mmHg were excluded if hemoglobin values exceeded 7 g/dL and SpO_2 levels exceeded 95 %, as these values were likely attributed to venous blood gas analysis rather than arterial (Figure 1).

References

- [1] Hemoglobin level. *Nursing in critical care* **15**, 34 (2020). URL https://journals.lww.com/nursingcriticalcare/fulltext/2020/07000/hemoglobin_level.6.aspx.
- [2] Lundsgaard-Hansen, P., Doran, J. E. & Blauhut, B. Is there a generally valid, minimum acceptable hemoglobin level? *Infusionstherapie* **16**, 167–175 (1989). URL <https://www.ncbi.nlm.nih.gov/pubmed/2807564>.

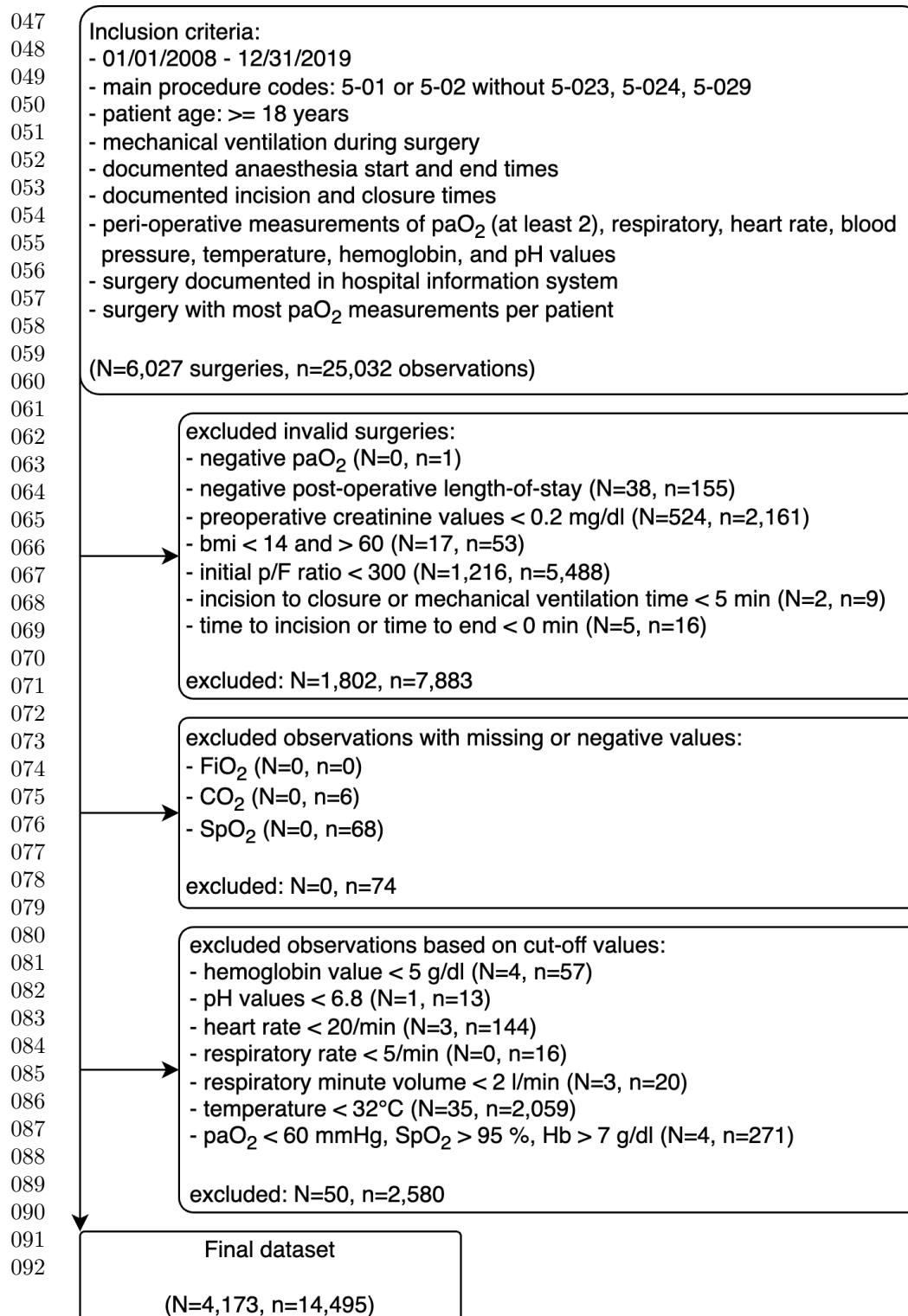


Fig. 1 Patient flowchart with inclusion and exclusion criteria.