

Appendix B: List of Features

Full list of features:

- identifier: identifier for surgery,
- idx: incrementing number of the measurement (discrete value),
- fio2: inspiratory fraction of oxygen (continuous value),
- co2: end-tidal carbon dioxide in mmHg (continuous value),
- spo2: peripheral capillary oxygen saturation in % (continuous value),
- rmv: respiratory minute volume in liter (continuous value),
- respiratory_rate: respiratory rate in 1/minute (discrete value),
- compliance: ventilation compliance in millilitermillibar (continuous value),
- paO2_measured: measured paO_2 value in mmHg (continuous value),
- first_horowitz: first paO_2/FiO_2 ratio in mmHg (continuous value),
- last_horowitz: last measured paO_2/FiO_2 ratio in mmHg (continuous value),
- pAO2: pAO_2 calculated value by the alveolar gas equation in mmHg (continuous value),
- systolic: systolic value in mmHg (discrete value),
- diastolic: diastolic value in mmHg (discrete value),
- mean_art_press: mean arterial pressure in mmHg (discrete value),
- heart_rate: heart rate in 1/minute (discrete value),
- temperature: temperature value in degree celsius (continuous value),
- ph: last measured pH-value (different sampling sites) (continuous value),
- hemoglobin: last measured hemoglobin value in gDL (different sampling sites) (continuous value),
- case_number: a patient's case number during a hospital stay
- already_intubated: indicates whether a patient was already intubated before surgery (dichotomous value),

047 • not_extubated: indicates whether a patient was not extubated after surgery
 048 (dichotomous value),
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 050 • bmi: a patient's body mass index (continuous value),
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 052 • age: age in years (continuous value),
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 054 • los: postoperative length-of-stay in days (continuous value),
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 056 • creatinine: pre-operative creatinine value in milligramdeciliter (continuous value),
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 058 • time_to_incision: time from intubation to incision in minutes (continuous value),
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 060 • time_to_end: time from suture to extubation in minutes (continuous value),
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 062 • mv_time: invasive mechanical ventilation time in minutes (continuous value),
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 064 • incision_closure_time: time in minutes from incision to closure (continuous value),
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 066 • gadrey: paO2 values calculated by Gadrey et al. in mmHg [30] (continuous value),
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 068 • sex_male: indicates a male patient (dichotomous value),
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 070 • asa: patient's ASA score (discrete value),
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 072 • timepoint_intraop: indicates whether the measurement was done intraoperatively
 073 (dichotomous value)
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 075 Features not eligible for recursive feature elimination, hyperparameter tuning and
 076 evaluation:
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 078 • paO2_measured,
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 080 • los
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 082 • identifier,
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 084 • incision_closure_time,
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 086 • mv_time,
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 088 • time_to_incision,
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 090 • time_to_end,
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 092 • not_extubated,
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 094 • first_horowitz,
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 096 • last_horowitz,

- case_number

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