All Mechanically Ventilated (MV) Patients
January 1997 – June 1999, $n = 1451$

Exclude
- Non-invasive MV $n = 166$
- Tracheostomy $n = 80$
- MV < 12 hours $n = 130$
- Expired/ withdrawal $n = 156$
- Unplanned extubation $n = 100$
- ≥ 2° extubation event $n = 78$
- Transferred off unit $n = 44$
- Primary diagnosis not acute resp. failure $n = 382$

Patients who met inclusion criteria, $n = 315$

Successful Extubation $n = 252$
Failed Extubation $n = 63$

Random selection $n = 100$
- 7 not available
- 3 not available

Control cohort $n = 93$ Study cohort $n = 60$