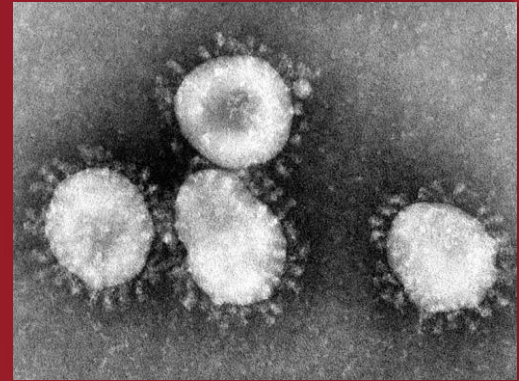


COVID-19: Survival among Mechanically Ventilated Patients



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(Early) Seattle Data

- February 2020 Multicenter Case Series
- 9 of 18 COVID+ vented patients died
 - Majority had chronic illness
 - 2 deaths were SNF residents over 80 years old
- Compliance similar to other ARDS cohorts



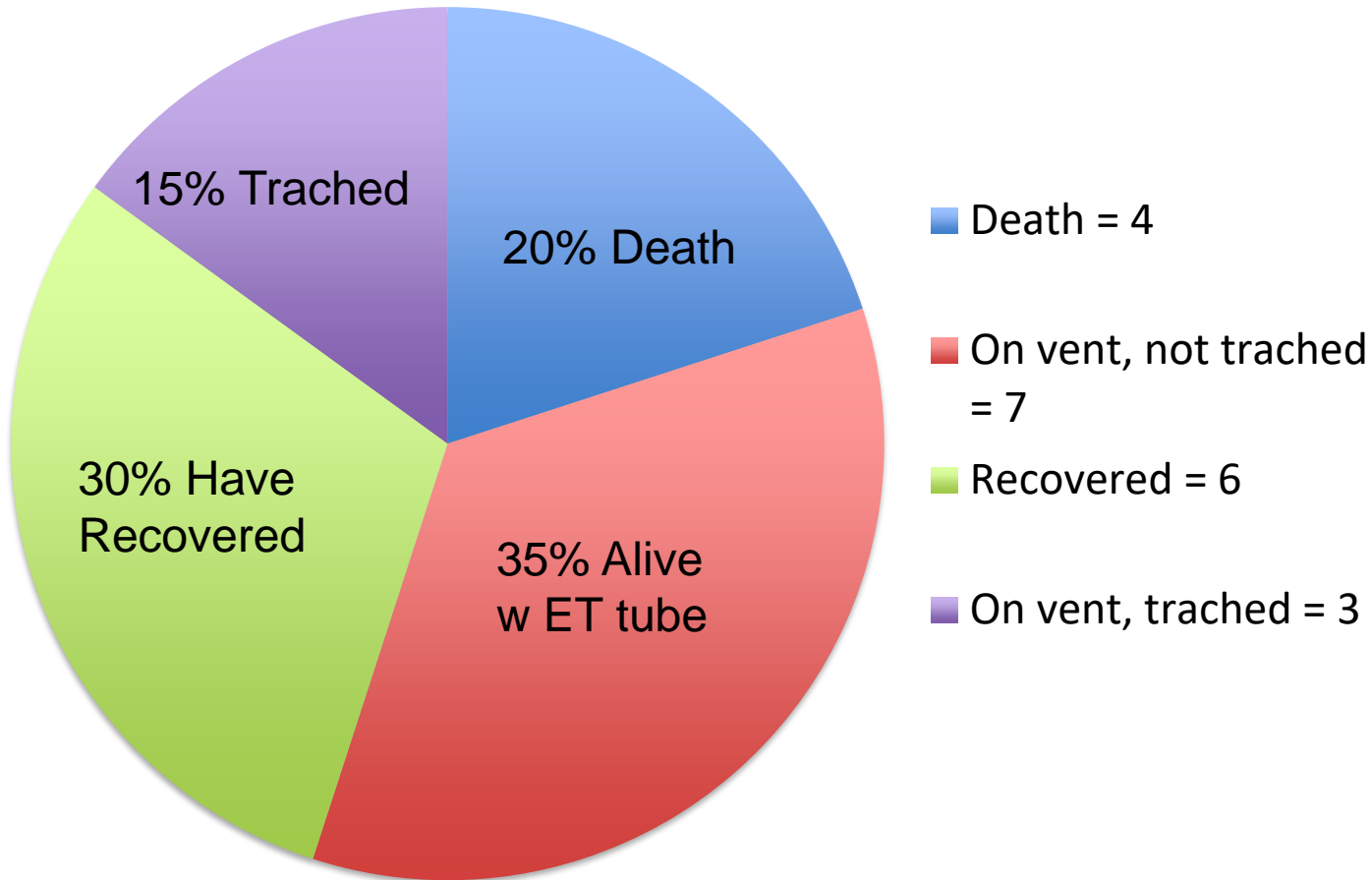
Northwell Data – New York

- Case series 5700 patients in 12 hospitals
March 1 to April 4
- Analyzed the 2634 patients who had
discharged or died
 - **NOTE: People alive in the hospital
were not included in main analysis**
- Media: 88% of vented patients die
- Vented patients (n=1151):
 - 24.5% had died
 - 3.3% discharged alive
 - 72.2% were alive in hospital



(WAY too Early) UNMC Data

COVID+ Intubated and Vented (n=20)



UNMC Approach

- LTVV, PEEP as needed, proning
 - Timing of intubation same as approach to flu, other ARDS
- Modest fluid restriction
- No anti-viral, anti-malarial therapies outside of IRB-approved RCTs
- Compliance similar to other ARDS



MGH / BIDMC Data – March 2020

- MGH and BIDMC April 29 in AJRCCM
- All 66 COVID+ vented patients March 11-30
 - 85% of them had ARDS
- LTVV, consider proning P/F < 200
- Conservative fluids, Median PEEP = 10
- Compliance similar to other ARDS
- As of April 28:
 - 62% had successfully extubated
 - 21% underwent tracheostomy
 - 16% had died

D. Ziehr et al. AJRCCM. May 2020

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Discussion

- ARDS from COVID-19 is similar to ARDS from other viral pneumonias
- Mortality rates for vented patients still unknown
- Longer-term follow up is needed
- Updates on more recent data from Seattle, Boston, or New York?

