

Ventilator Pressure Prediction

Lucile Rabeau

A few numbers.



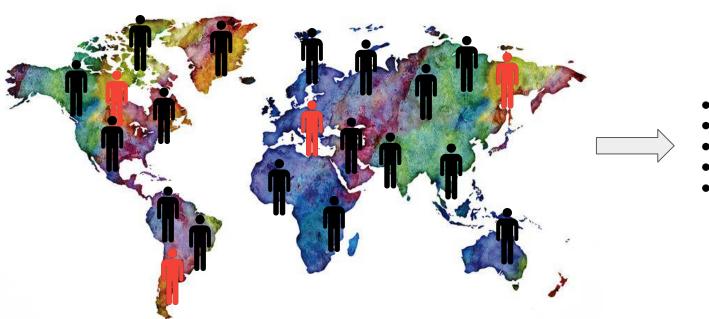
Chronic respiratory diseases



A few numbers.



Chronic respiratory diseases

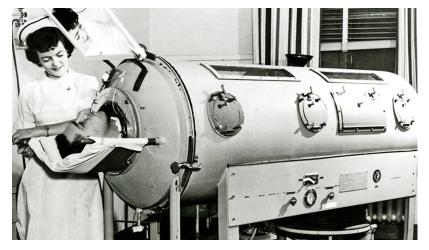


- Asthma
- Allergies
- Cancer
- Mucoviscidose
- BPCO

...

Ventilators.





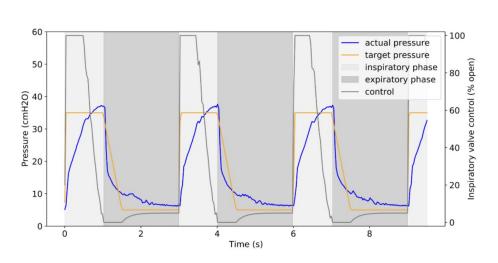
Polio, 1931



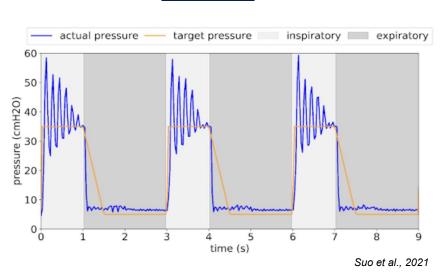
Current methods.



Clinician-prescribed breathing waveform



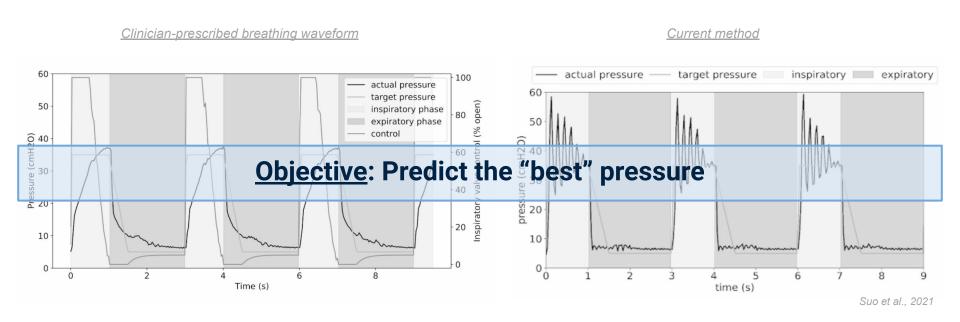
Current method



- Time consuming for doctors and medical staff
- Not adaptable to specific patients

Current methods.

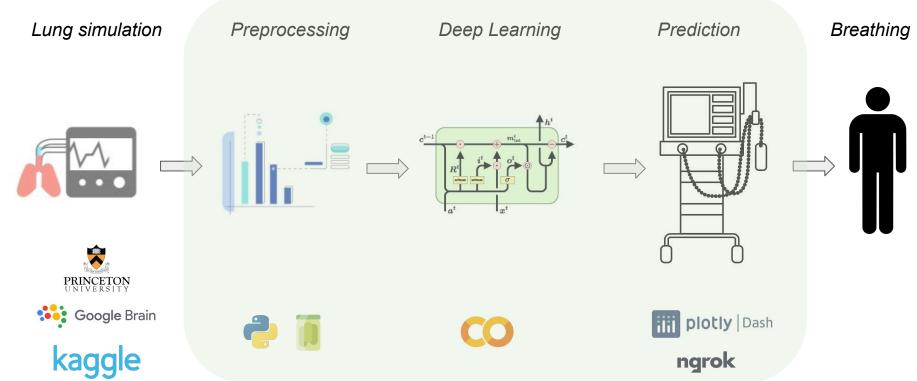




- Time consuming for doctors and medical staff
- Not adaptable to specific patients

How to.

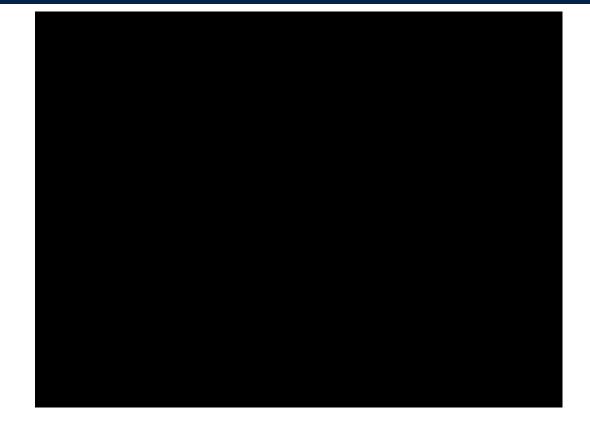




Application.



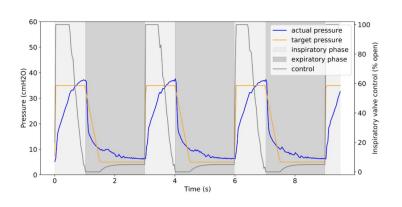
Just Breathe



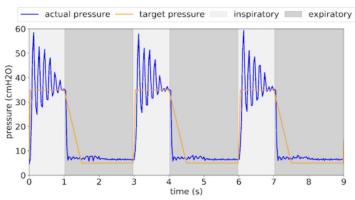
Conclusions & perspectives.



Clinician-prescribed breathing waveform



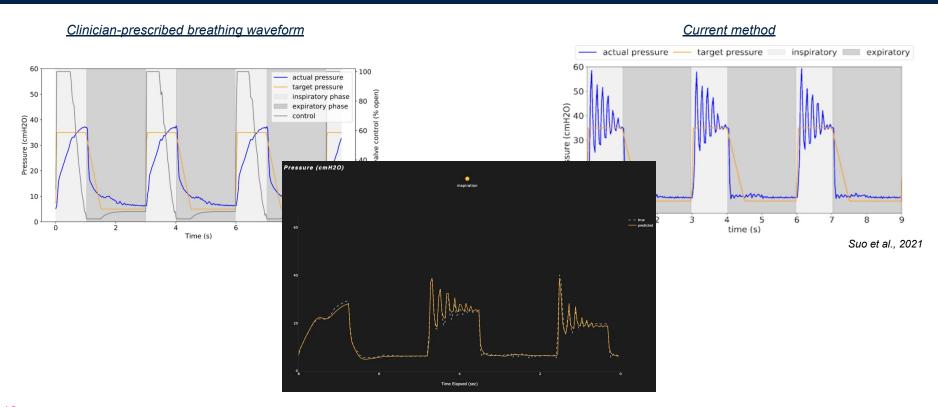
Current method



Suo et al., 2021

Conclusions & perspectives.





Conclusions & perspectives.







Interstellar, 2014

Thank you.

Source data.





Artificial test lung connected to a modified ventilator (Google Al Princeton lab)

