

Learning Objectives



Understand the severe clinical manifestations of influenza, RSV and COVID-19



Evaluate the role of immunisation in preventing severe outcomes of influenza, RSV and COVID-19

The Big Three: Common Ground



All three are caused by viruses



These viruses are spread through respiratory droplets



Share common symptoms: fever, cough, runny nose, sore throat, fatigue, shortness of breath

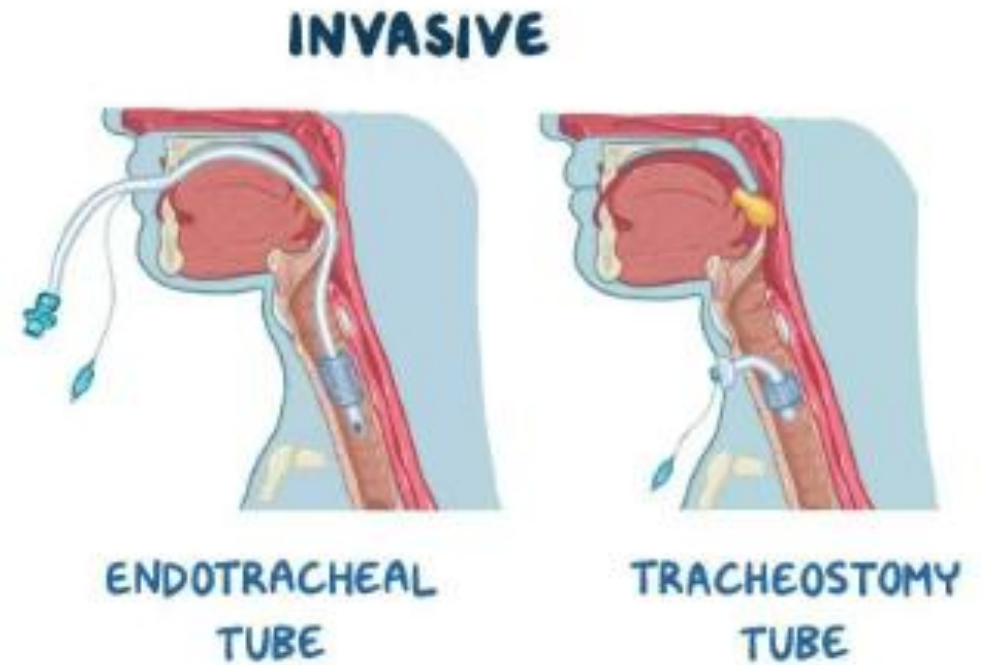


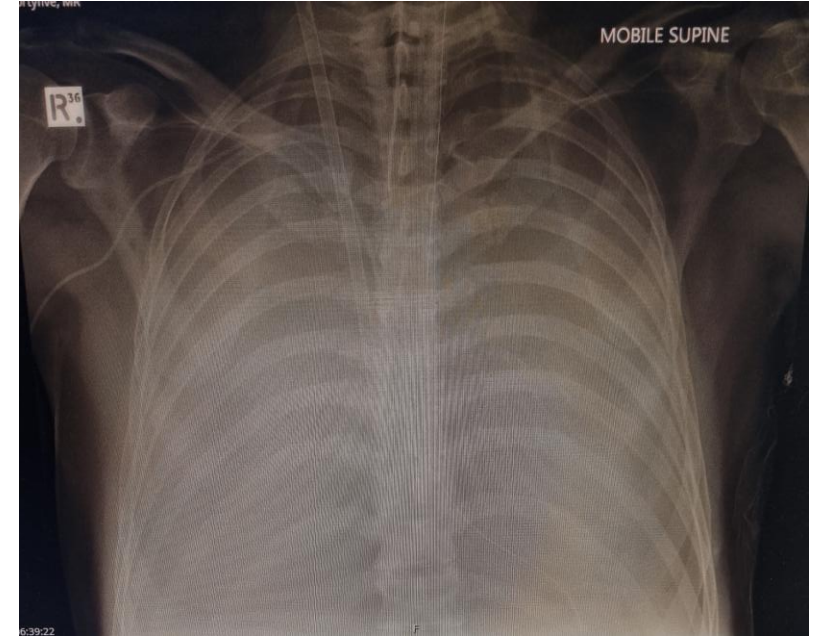
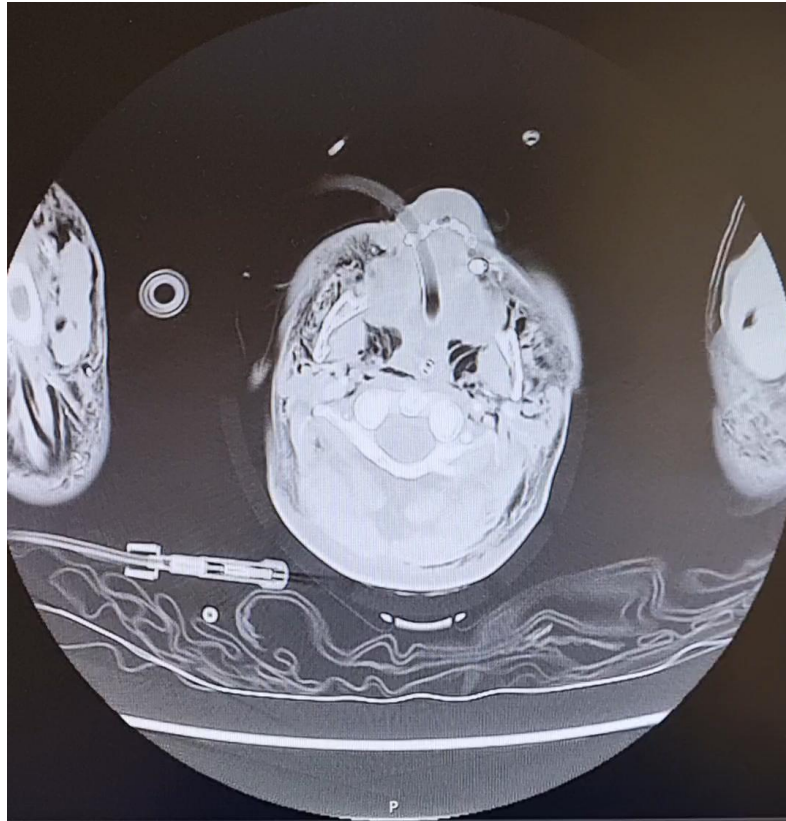
Symptoms can range from mild to severe and can be fatal

Risk Factors for Severe Illness

- Age
- Comorbidities
- Immunocompromised
- Pregnancy

RESPIRATORY FAILURE



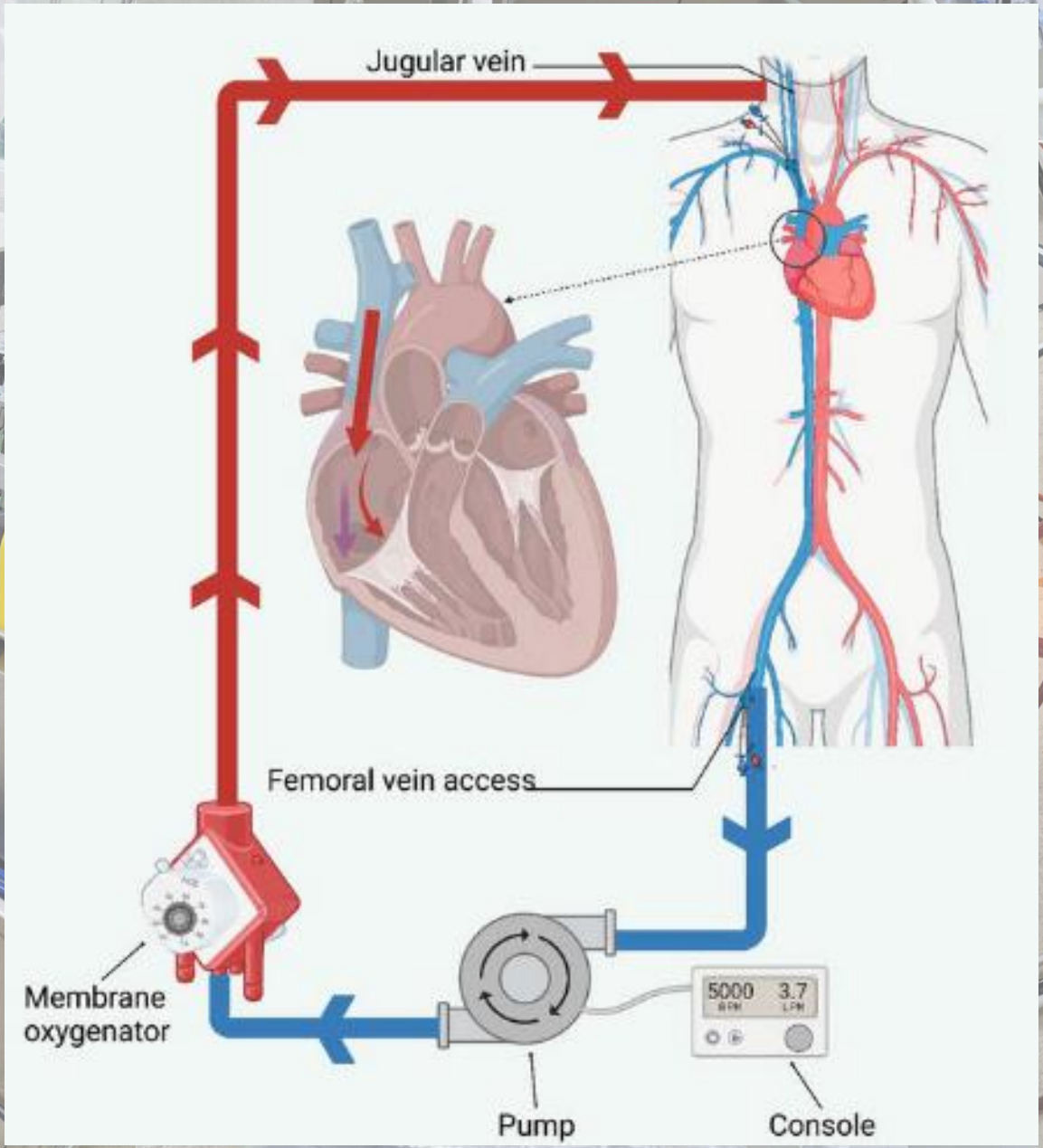


Acute Respiratory Distress Syndrome (ARDS)



Extracorporeal Membrane Oxygenation (ECMO)

MAQUET
BLAUE MEDICAL
2.18
-17
199
04.4
2785
188
35.1

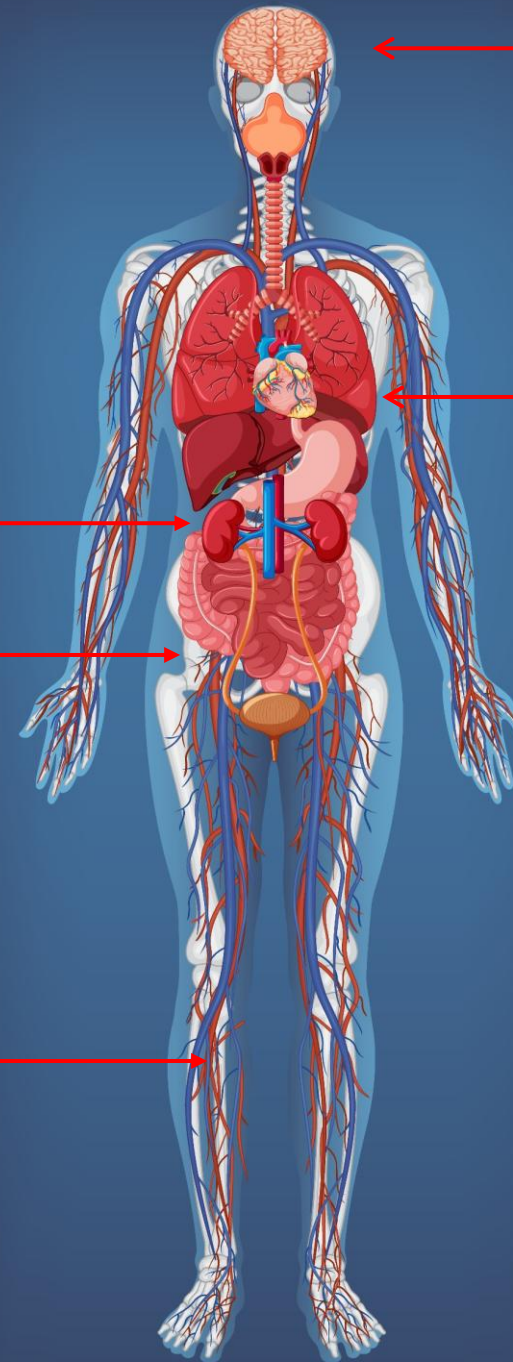


Multi-Organ Failure

Renal - acute kidney injury (AKI)

Gastro - nausea, vomiting,
diarrhea, ischemia

Vascular – PE, DVT, stroke



Neurological -
encephalopathy,
stroke, seizures

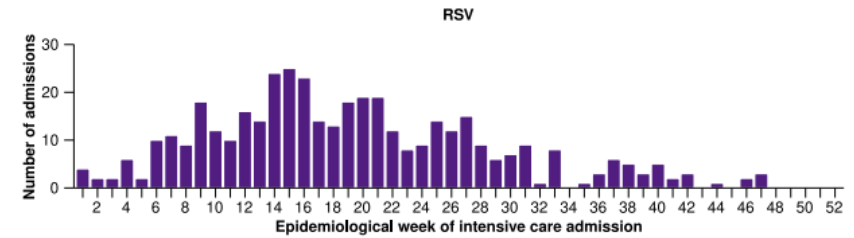
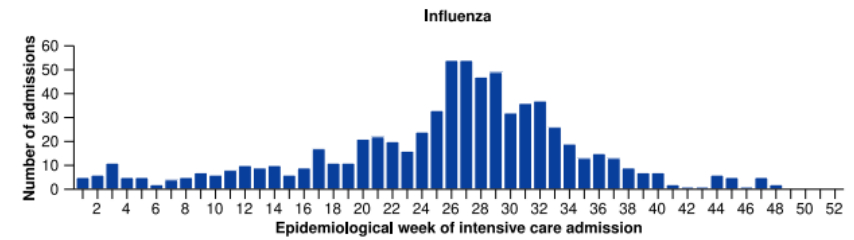
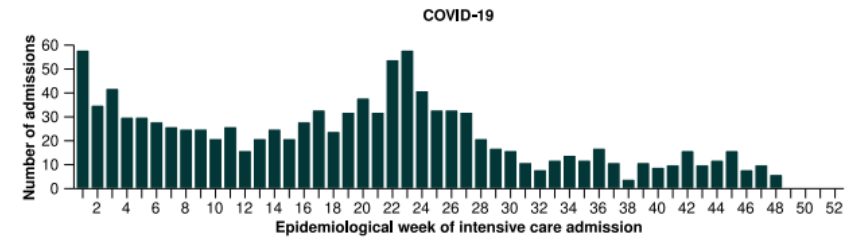
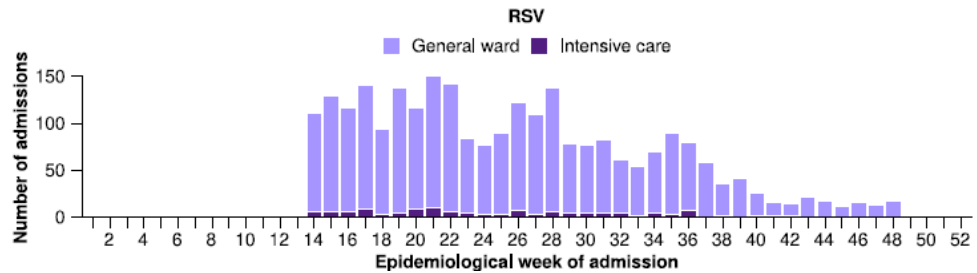
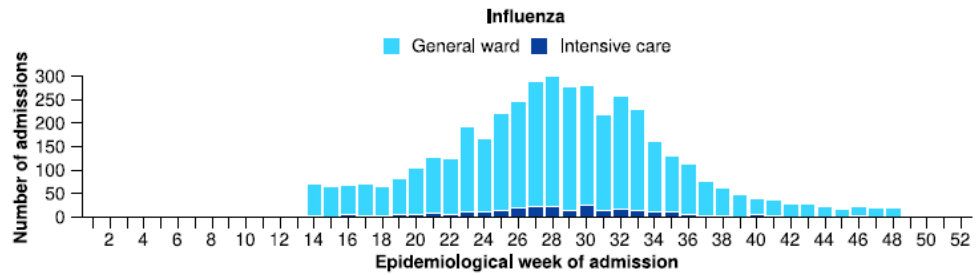
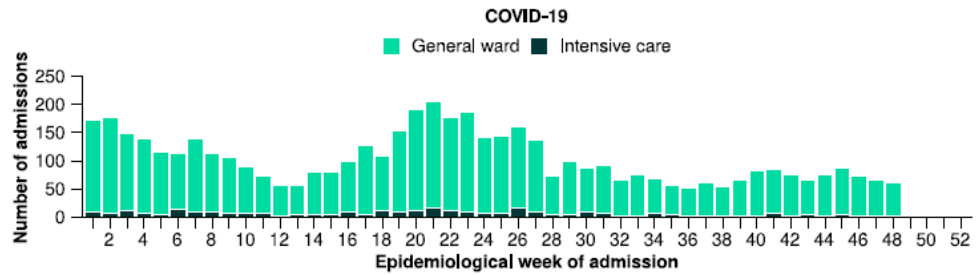
Cardiac -
myocarditis,
arrhythmias, heart
failure

Long Term Sequelae

- Prolonged mechanical ventilation and deconditioning
- Post-Intensive Care Syndrome (PICS)
- Long COVID

Immunisation is the key to preventing
life-threatening illness

Jan 1 2024 – Dec 1 2024



* Axis varies between disease groups.

† Includes 13 patients with viral co-infection of SARS-CoV-2/influenza/RSV in the year to date for severity reporting.

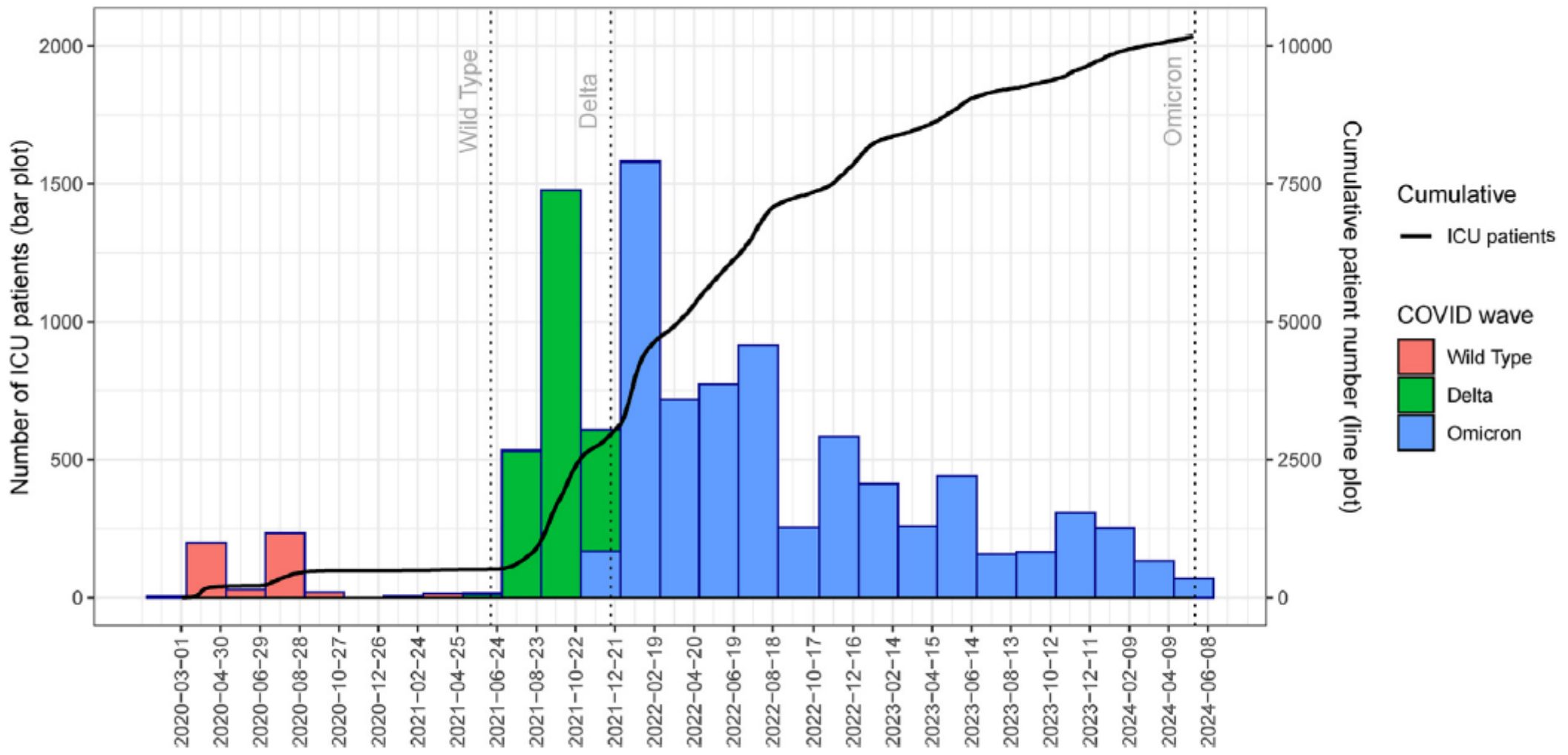
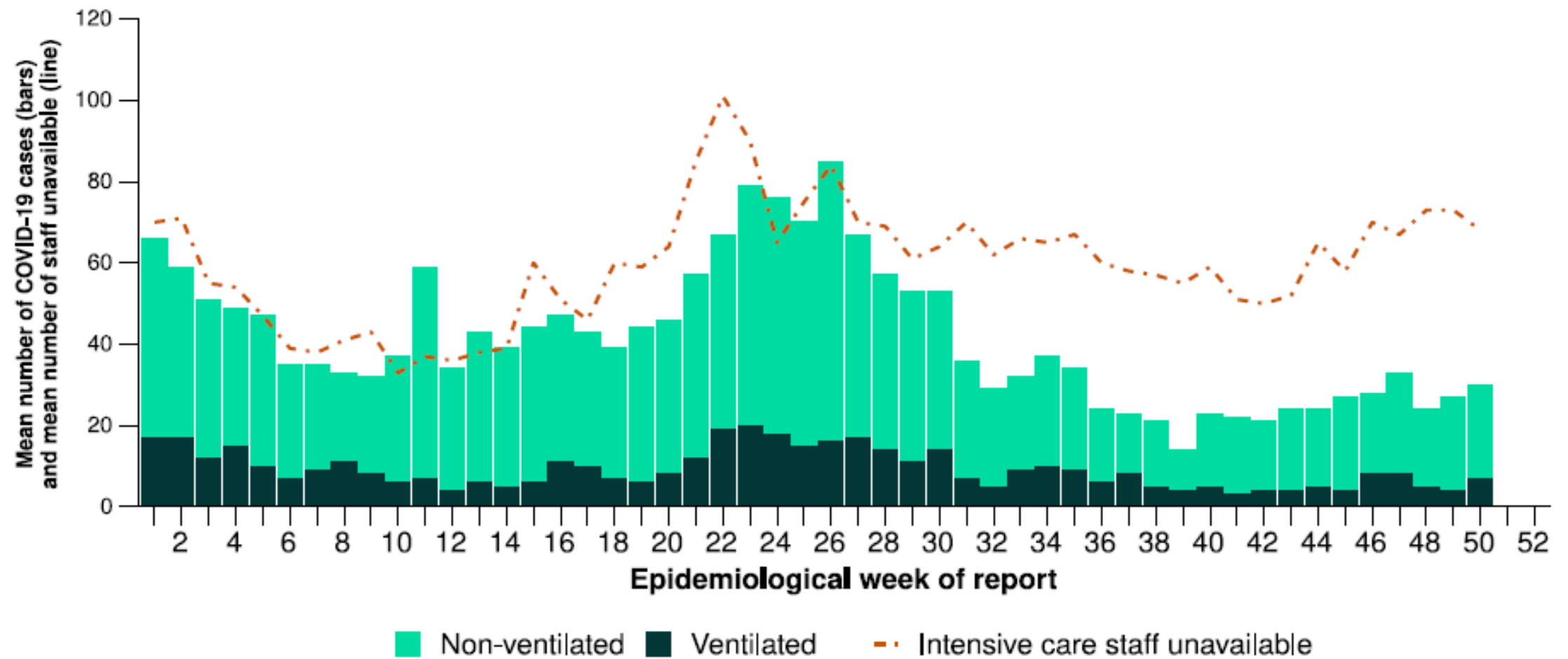


Fig. 1. Cumulative patients admitted to ICU with COVID-19.



Questions?



Health
Northern Sydney
Local Health District





SYDNEY NORTH

Health Network

Thank you for participating in todays training.

Please remember to use your phone to complete the
evaluation by QR code



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