



UNIVERSITY OF  
BIRMINGHAM



INSTITUTE OF  
IMMUNOLOGY AND  
IMMUNOTHERAPY

# Monoclonal antibodies for COVID

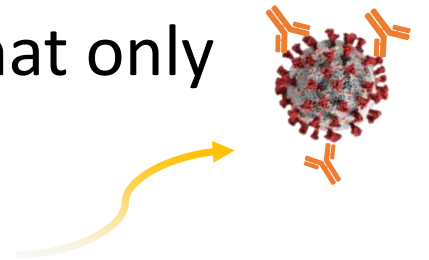
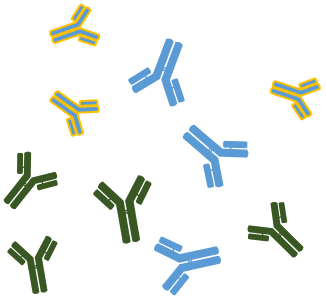
*Professor Alex Richter*

*University of Birmingham*

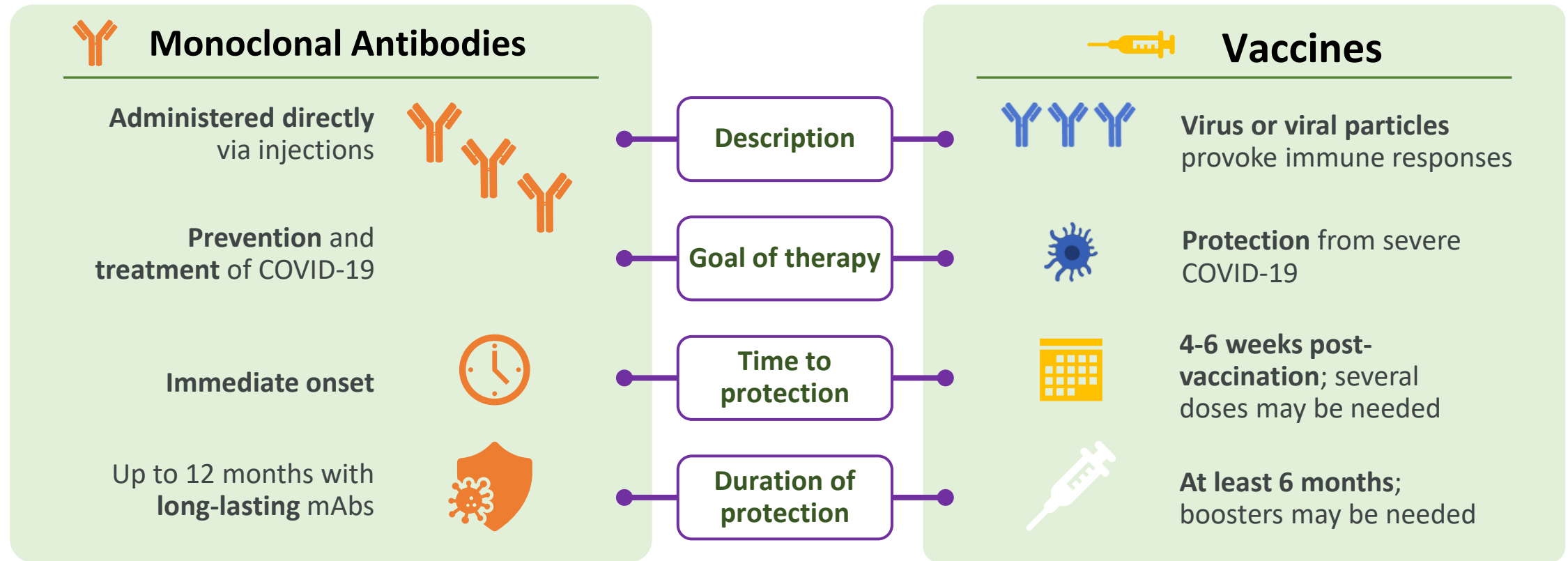
*Wednesday 24<sup>th</sup> June 2022*

# What is a monoclonal antibody?

- Antibodies are important for clearing infection and protecting against future infection
- Antibodies come in all shapes and sizes and we need lots of different varieties to protect against wide range of infections
- A monoclonal antibody is one type of antibody that only works against one target



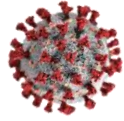
# Monoclonal antibodies as a treatment for COVID-19



mAbs can be used to 'donate' antibodies to vulnerable patients that don't make their own



# Use of monoclonals



## Treatment for acute infection



Hospital

Earlier the better



CMDU outpatient care

Ronapreve  
Sotrovimab

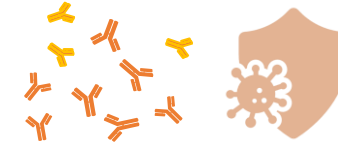


Licensed and in use but concern with omicron

CMDU – COVID medicines delivery unit



## Prevention of infection



*Pre-exposure prophylaxis*

Why? – could help “living with COVID” strategy



+



=

No antibodies ☹️

Evulsheld – licensed but not yet available in UK



How well works against omicron?

Who will benefit most from them?

Evidence in these groups - limited trial data

