



**HIGHER HEALTH**

# Learning to live with COVID



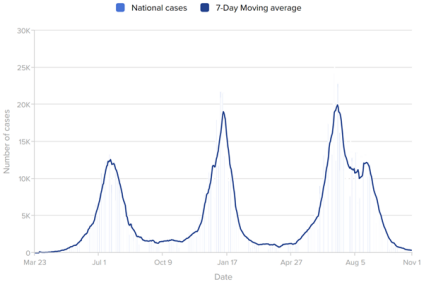
Prof Tim Tucker



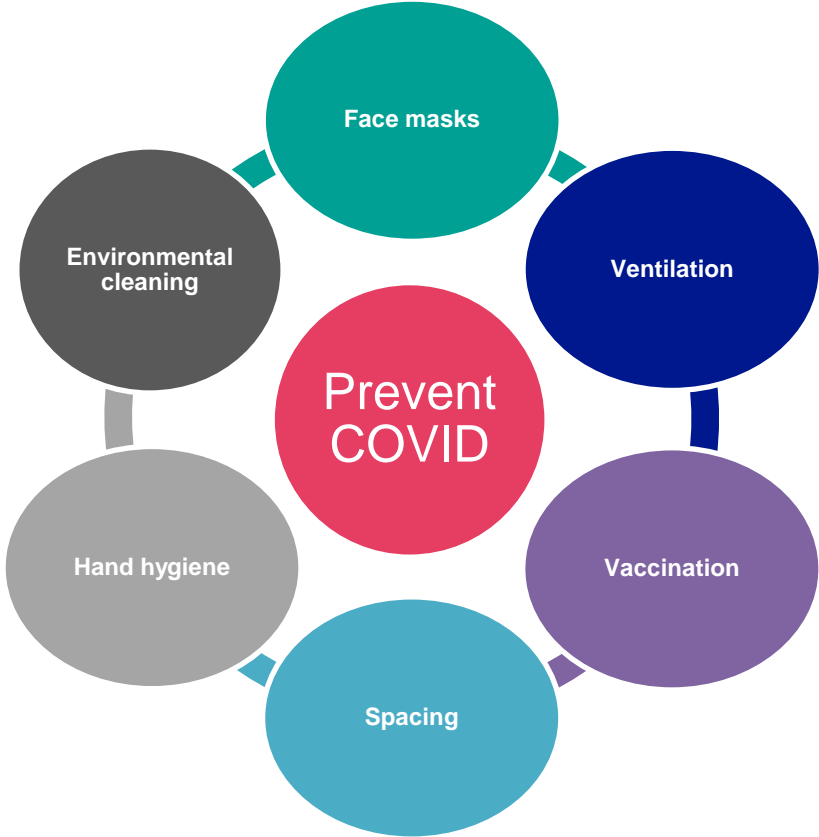
# Maturing public health response

- Learning to live with the virus
  - It is here to stay!
- Epidemic vs endemic
- Move beyond an emergency response
  - Long term public health
  - Science driven – prevention and cure

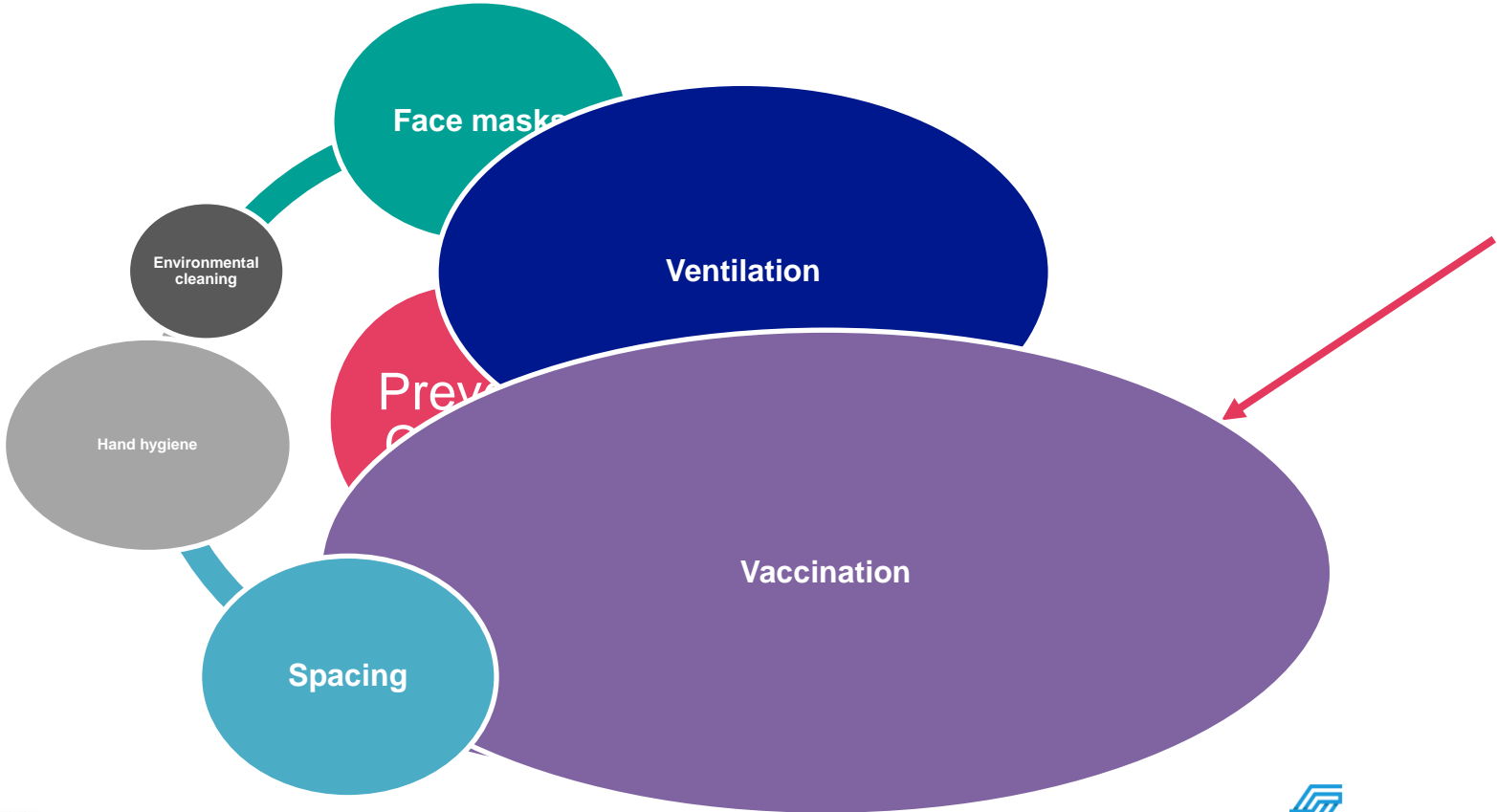
# The responsibility to prevent COVID



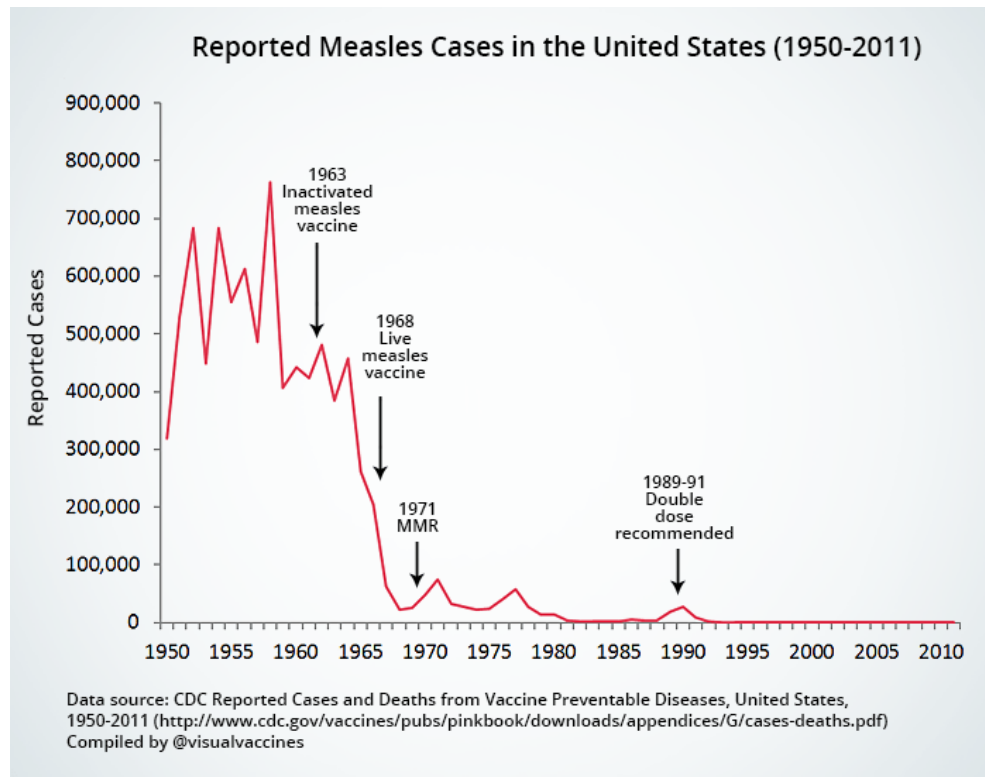
4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>  
waves



# The responsibility to prevent COVID



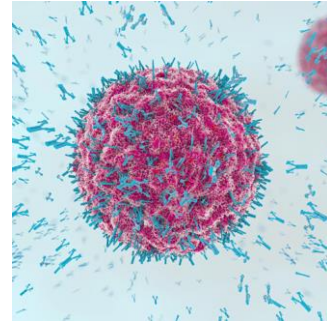
# Do vaccines work?



# COVID vaccines

# What is an ideal vaccine?

1. Prevent infection
2. Prevent disease and death
3. Prevent spread



# Are they safe?



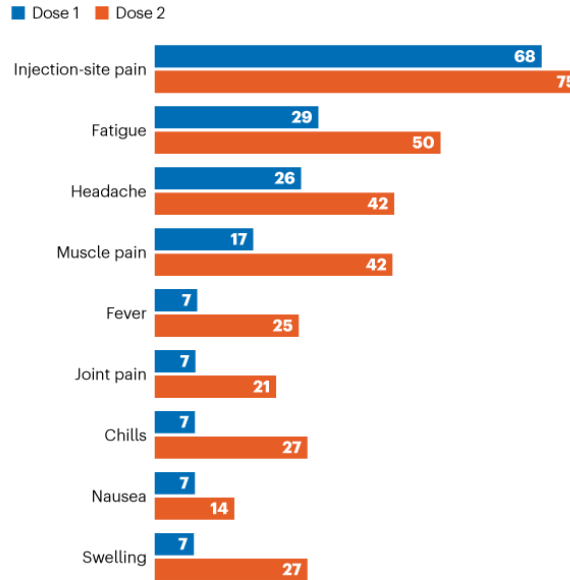
# Are they safe?

## Yes – most symptoms mild and short-lived

7,6 Billion doses to date

### TRACKING SIDE EFFECTS

According to data collected by the CDC's v-safe smartphone app, a higher percentage of people reported side effects after receiving the second dose of the Pfizer–BioNTech vaccine than after receiving the first dose. Injection-site pain was most common, whereas nausea and chills were not as common.



# Do COVID-19 vaccines work?

# COVID vaccines preventing infection

## Companies leading the way

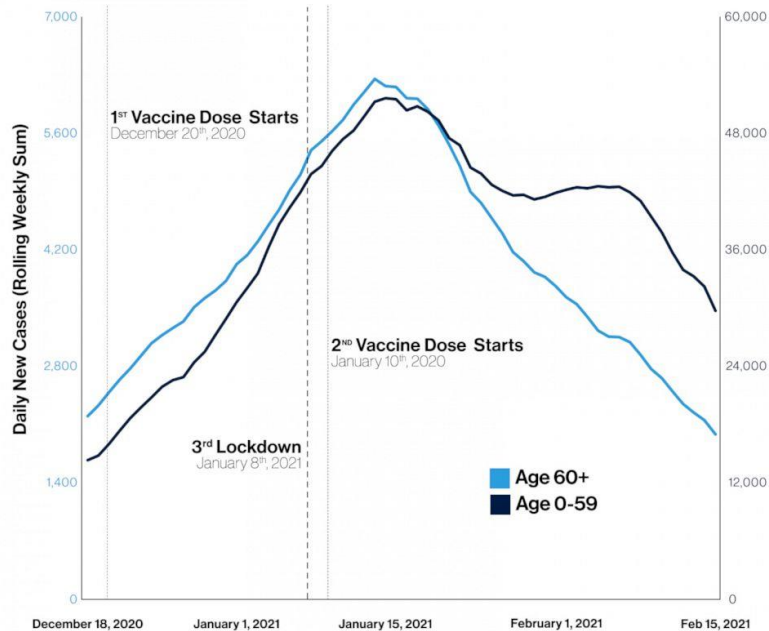
Efficacy against *original variant*

- |                       |                |
|-----------------------|----------------|
| • Pfizer/BioNTech     | • 95%          |
| • Moderna             | • 92%          |
| • AstraZeneca         | • 70% (64-92%) |
| • Johnson and Johnson | • 66-72%       |
| • Sinovac             | • 50% - 78%    |
| • Sputnik V           | • 92%          |

# Do vaccines work? Israel

## COVID-19 Cases in Israel Fall Sharply

VACCINATED AGE GROUPS 0-59 & 60+



SOURCE: Rossman, Shilo, Meir, Gorfine, Shalit, Segal; Weizmann Institute of Science, Tel-Aviv University, Technion.

abc NEWS



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# Do vaccines work?

05 Aug

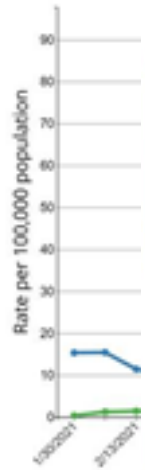
## 'I have not seen a single vaccinated person in Covid-19 high care ward' - Groote Schuur doctor

news24 Tammy Petersen

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# COVID-19 vaccines – reduced transmission



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## EDITORIAL

Audio Interview: A New  
Monoclonal Antibody for Covid-  
19 and Potential Vaccinatio...

Editor's Note: This letter was published on September 8, 2021, at NEJM.org.

## CORRESPONDENCE

# Effect of Vaccination on Transmission of SARS-CoV-2



1 Citing Article



PDF

TO THE EDITOR:

Whether vaccination of individual persons for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) protects members of their households is unclear. We investigated the effect of vaccination of health care workers in Scotland (who were among the earliest groups to be vaccinated worldwide) on the risk of coronavirus disease 2019 (Covid-19) among members of their households.

We evaluated data from 194,362 household members (which represented 92,470 households of 2 to 14

October 28, 2021

N Engl J Med 2021; 385:

DOI: 10.1056/NEJMc210

Metrics

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# COVID vaccines - boosters

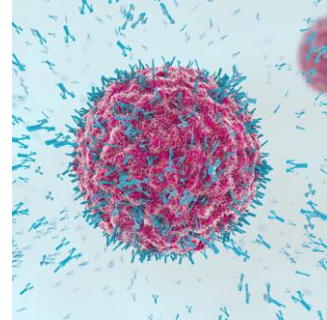
## Companies leading the way

- Pfizer/BioNTech
- Moderna
- AstraZeneca
- Johnson and Johnson
- Sinovac
- Sputnik V

Booster doses needed?

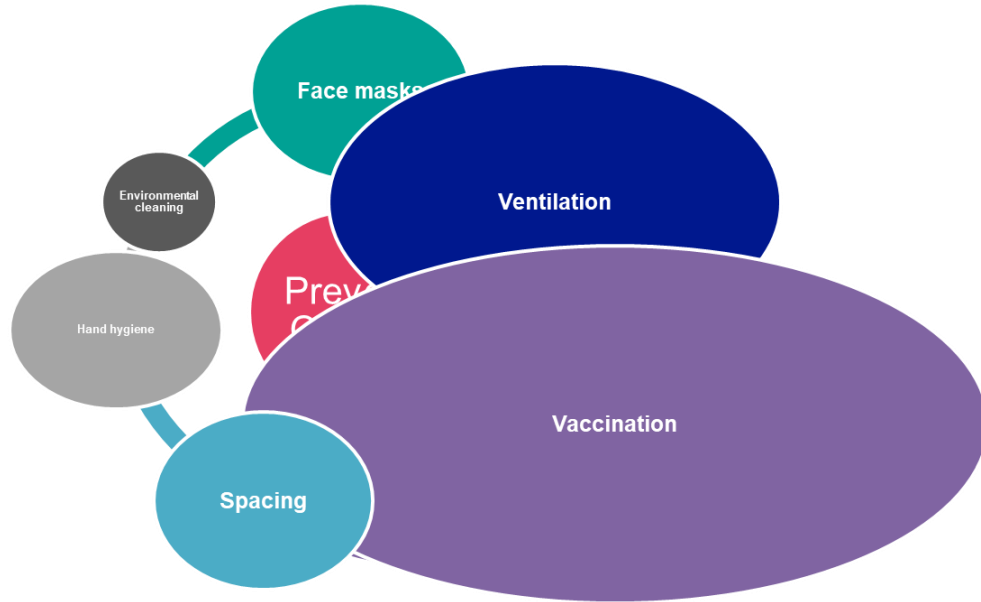
# What is an ideal vaccine?

1. Prevent infection
2. Prevent disease
3. Prevent spread





# Learning to live with COVID



# Remembering history – the toll of infectious diseases



# Thank you