



# COVID-19

## Investor briefing

22 March 2022

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# Agenda



## COVID-19 research & results

Tony Keating  
CEO & Managing Director



## Public health context

Professor  
Catherine Bennett



## Market & commercial strategy

Mike Connell  
VP, Commercial

# ResApp's COVID-19 scientific advisory board



**Prof. Elizabeth Talbot**

Geisel School of Medicine  
Dartmouth



**Prof. Antonio Anzueto**

University of Texas Health  
San Antonio



**Prof. Catherine Bennett**

Chair in Epidemiology  
Deakin University



**Assoc. Prof. Joan Soriano**

Hospital Universitario  
de la Princesa Madrid



**Assoc. Prof. Mark Howard**

Director of the Victorian  
Respiratory Support Service



**Assoc. Prof. Paul Porter**

Curtin University & Joondalup  
Health Campus

# COVID-19

- Coronavirus disease (COVID-19) is an infectious disease caused by the SARS-CoV-2 virus
- Globally there has been >6m deaths, at a mortality rate estimated to be x10 higher than flu<sup>2</sup>
- At the peak of Omicron, Australians were waiting for up to 7 days for PCR test results (after waiting in queue for up to 6 hours) and rapid antigen tests were difficult to source<sup>3</sup>
- PCR and rapid antigen tests generally require a nasal swab as shown (right)
- Rapid antigen tests are widely used to screen and detect COVID-19



Obtaining the Nasopharyngeal Swab Specimen.<sup>1</sup>

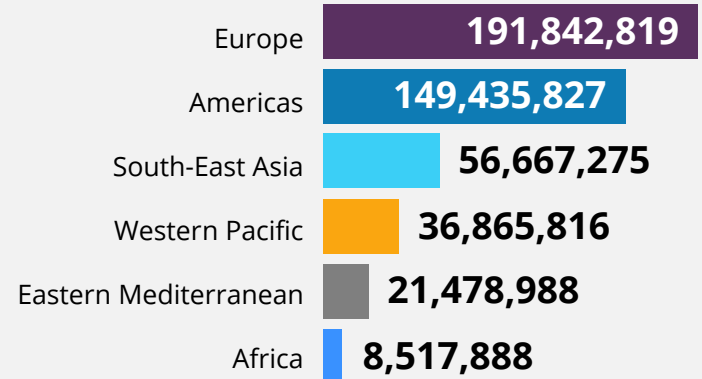


## Global stats<sup>4</sup>



## Cases by region

(confirmed)





# COVID-19 latest trends



Global conditions perfect for more Covid variants to emerge, WHO's Tedros says

Chloe Taylor  
Monday, 24 Jan 2022 12:54 PM EST

WATCH LIVE

- Conditions are ripe for Covid-19 to mutate into more new variants, and it is dangerous to assume the pandemic is approaching its endgame, the WHO's top official warned Monday.
- Last week, an average 100 cases were reported every three seconds, Tedros Adhanom Ghebreyesus added, and someone lost their life to the virus every 12 seconds.
- However, Tedros was optimistic that with the right course of action, the pandemic could reach a turning point in 2022.



## Do not assume COVID pandemic reaching 'end game', warns WHO

By Emma Farge and Mrinalika Roy

GENEVA, Jan 24 (Reuters) - The head of the World Health Organization (WHO) warned on Monday that it was dangerous to assume the Omicron variant would herald the end of COVID-19's acutest phase, exhorting nations to stay focused to beat the pandemic.

## South Korea reports record Covid deaths as daily cases surge past 600,000

Despite record infections and fatalities, public opinion appears to support plans to ease Covid curbs in the coming days

[Read all our coronavirus coverage](#)



Reuters

Thu 17 Mar 2022 17:16 AEDT

## How concerning is it that Covid infections are rising in the UK?

Experts say rise was expected but further case increases and new variants are still a threat

Nicola Davis  
Science Correspondent

@NicolaKSDavis

Wed 16 Mar 2022  
04:40 AEDT

The Observer  
China

## With 37 million in lockdown and Covid plans under fire, Chinese ask: what comes next?

Elderly residents are wary of the job even as Omicron spreads, and critics say zero-Covid policy is not sustainable



A resident is tested for Covid in Changzhou, China. Photograph: Sheldon Cooper/SOPA Images/REX/Shutterstock

## Germany hits record Covid infection rate since start of pandemic

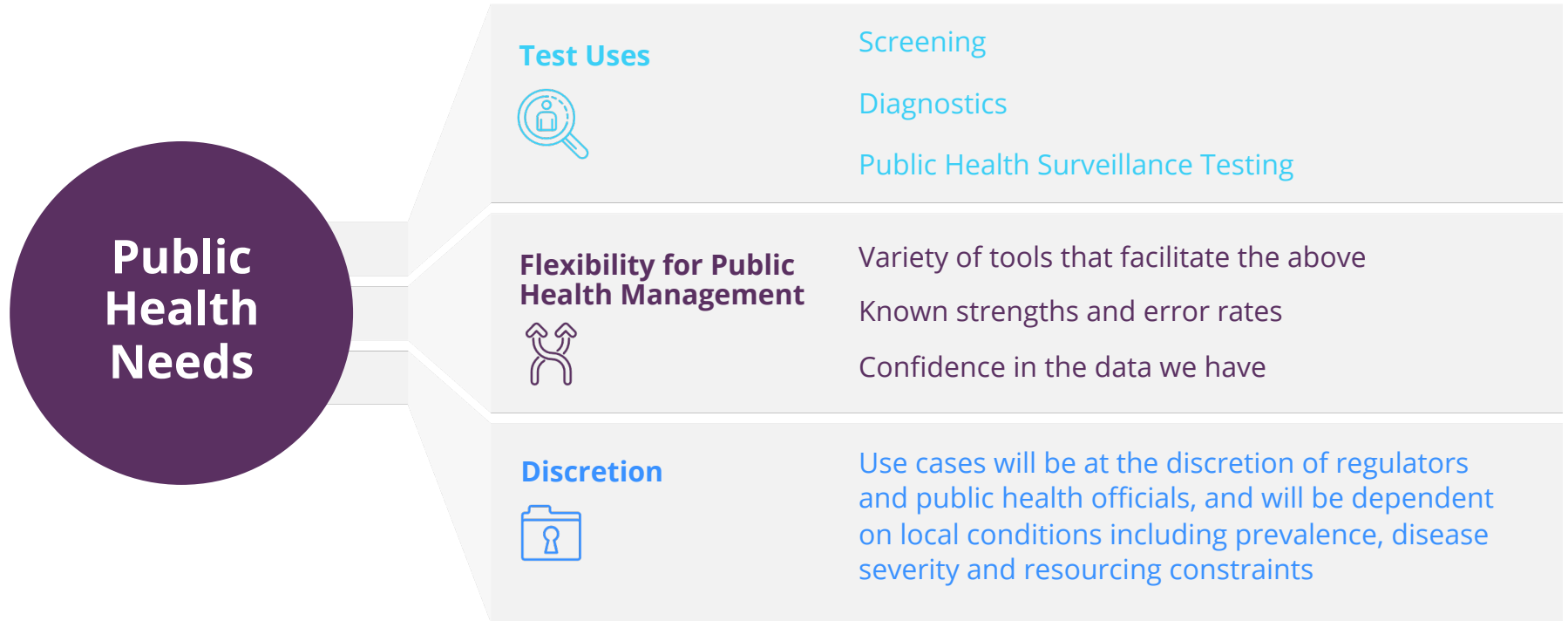
Over past 24 hours 262,593 cases have been recorded, but with testing facilities at capacity, number could be higher

Philip Oltermann  
Berlin

@philipoltermann

Wed 16 Mar 2022 23:24  
AEDT

# Future public health needs to manage COVID-19



# Leaders in audio based diagnosis of respiratory health

## Why our 10 years of experience matters now more than ever



**>3,500**

cough sounds matched to gold standard PCR test results for COVID-19 infection from studies run in 2021/22



**Breathe Easy**

the **only** substantial pre-COVID-19 cough dataset in the world.

Enables us to be confident that we are detecting COVID-19, not just general respiratory disease.



**3 Approved Products**

CE Marked & TGA approved products in respiratory disease diagnosis and screening using audio



# COVID-19 study design



**741** Total Participants

## **US Arm 1:**

Decentralised, at-home, partnered with Phosphorus

## **US Arm 2:**

COVID-19 testing clinics, partnered with Covid Clinic

## **India Arm 1:**

COVID-19 testing clinics, partnered with Triomics

## **India Arm 2:**

Mild-moderate hospitalised patients, partnered with Triomics

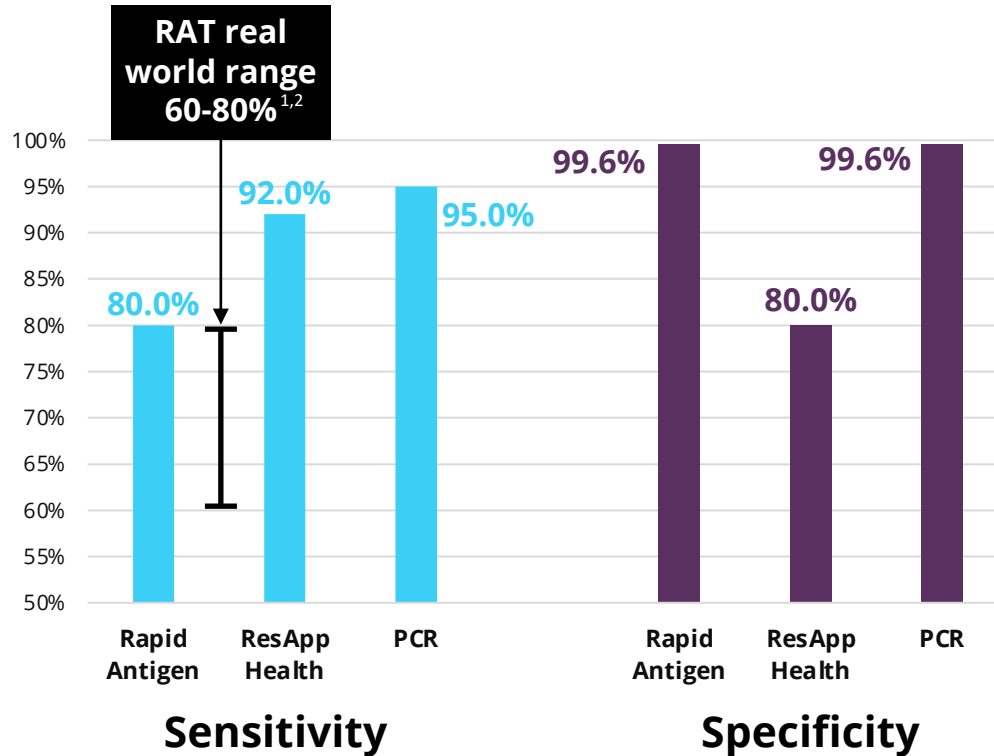


**446**  
**COVID-19**  
**Positive**  
**Participants**



**Comparator**  
**Gold standard**  
**PCR test**  
**vs coughs**  
**recorded using a**  
**smartphone**

# Study results



Area under the Curve (AUC)  
**0.93\***

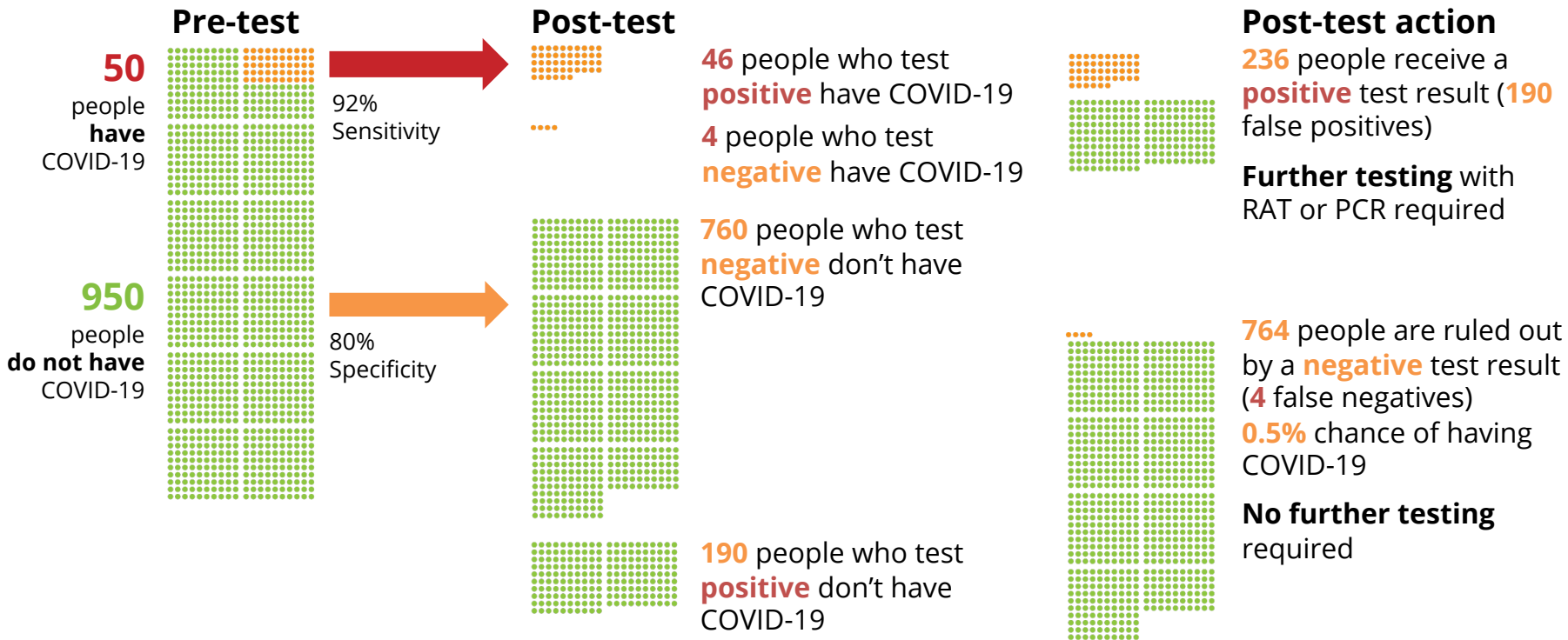
\*>0.9 is outstanding<sup>3</sup>

**>90%**  
Specificity  
vs Breathe Easy

**Consistent across**  
study arm and location, age,  
gender and vaccination status,  
Delta & Omicron variants

# COVID-19 mass-screening: *high sensitivity* algorithm

Test with 92% sensitivity, 80% specificity @ 5% incidence of COVID-19



# COVID-19 diagnostics, a large and growing market

Potential to expand into patient management and other infectious disease therapy areas



**USD105b<sup>1</sup>**  
**COVID-19**  
**diagnostic**  
**market**  
**by 2027**

**COVID-19**  
**patient**  
**management**  
**market**

**Treatment**  
**companion apps**

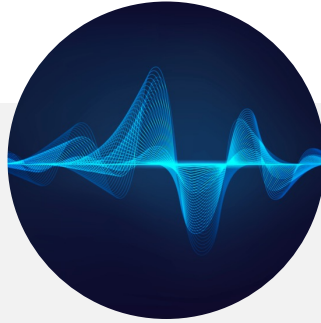
**Other infectious**  
**disease markets**

# Benefits of a smartphone-based test



## Unlimited & instant

Smartphone only  
No supply chain issues  
Entire test process:  
~30 seconds



## Non-invasive

Cough sounds only, no  
uncomfortable swabs  
Likely better compliance



## Resource sparing

Reduction in PCR & RAT testing  
Savings for governments  
insurers and individuals



## Environmentally friendly

Reduces manufacturing,  
transport, chemicals  
& biosecurity waste



# Additional options for public health management

Noting these would be at the discretion of public health officials



## Flexibility

- Potentially 3 different algorithms (**high sensitivity**, high specificity and balanced) for different use cases.
- **Implementation:** App, SDK and AppClips/Android instant Apps.
- Flexible patient journey instructions post-test.



## Security

- Ability to verify test taker and their results via a photograph during the test (eg high risk settings, nursing home visitors etc).



## Reporting

- Automated reporting of results to assist in public health management.
- Surveillance programs - de-identified, aggregate level, patient data.

# COVID-19 go-to-market: 3 key opportunities

## 1. Mass screening

Potential reduction in requirement for RAT/PCR tests – direct to consumer, government & insurance payers



## 2. Surveillance

Public health monitoring of outbreaks, prevalence rates etc

## 3. Diagnostic

High prevalence, low resource settings (eg LIMIC/emerging markets), high volume situations where RAT/PCR testing is not practical

**Strategy:** Global exclusive distribution license, instant scale and reach

**Value proposition:** Infinitely scalable, instant, non-invasive screening test to dramatically reduce COVID-19 rapid antigen and PCR testing, providing significant savings and reduced environmental impact

# COVID-19 strategy

## Today's announcement



### Screening

Instant, better than a temperature check, more scalable than rapid antigen testing

for: Corporates, venues, schools, transport, governments

## Future announcement

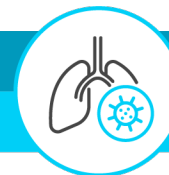


### Managing

Manage mild cases at home (identify severe cases for early intervention and reducing burden on hospitals)

for: Healthcare systems, governments

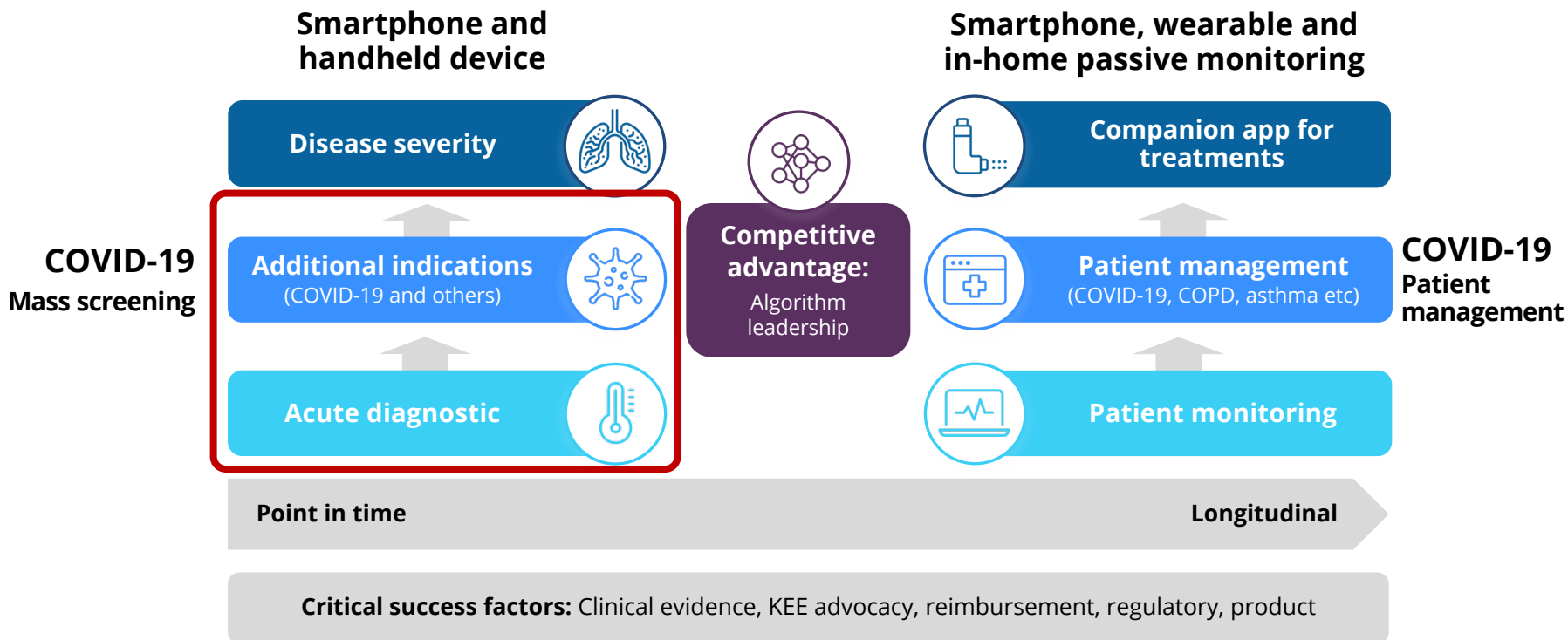
## Future research



### Long COVID R&D

Identify and manage long term effects of COVID-19 on patient's lungs (e.g. fibrosis)

# ResApp's overall strategy



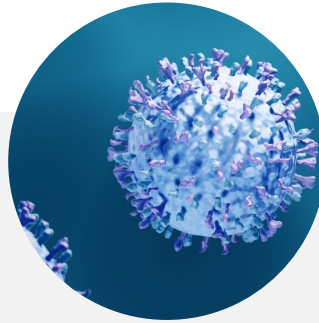
# Future implications of today's announcement



## COVID-19 patient management

Enrolment and preliminary data collection completed.

Review of data and algorithm development to follow.



## Other infectious diseases

Potential to detect other infectious respiratory diseases – flu, RSV etc.

Global market of USD18Bn by 2026<sup>1</sup>.



## Pre-pandemic preparedness

Potential to develop candidate algorithms and further POC's to support management of future pandemics.



# Next steps



## Prospective trial:

Prove our mass screening data in a double-blinded, prospective clinical trial



## Regulatory:

Engagement with key regulatory bodies on the data we have, Breathe Easy data context and future development path



## Paediatric:

Initiate research in children <18 years



## Patient monitoring:

Analyse data and develop algorithms



## Commercial Engagement:

Already talking to a number of parties.



## Contacts

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# Thank you!