



**Moorfields
Eye Hospital**
NHS Foundation Trust



Remote care at Moorfields: innovation and scale

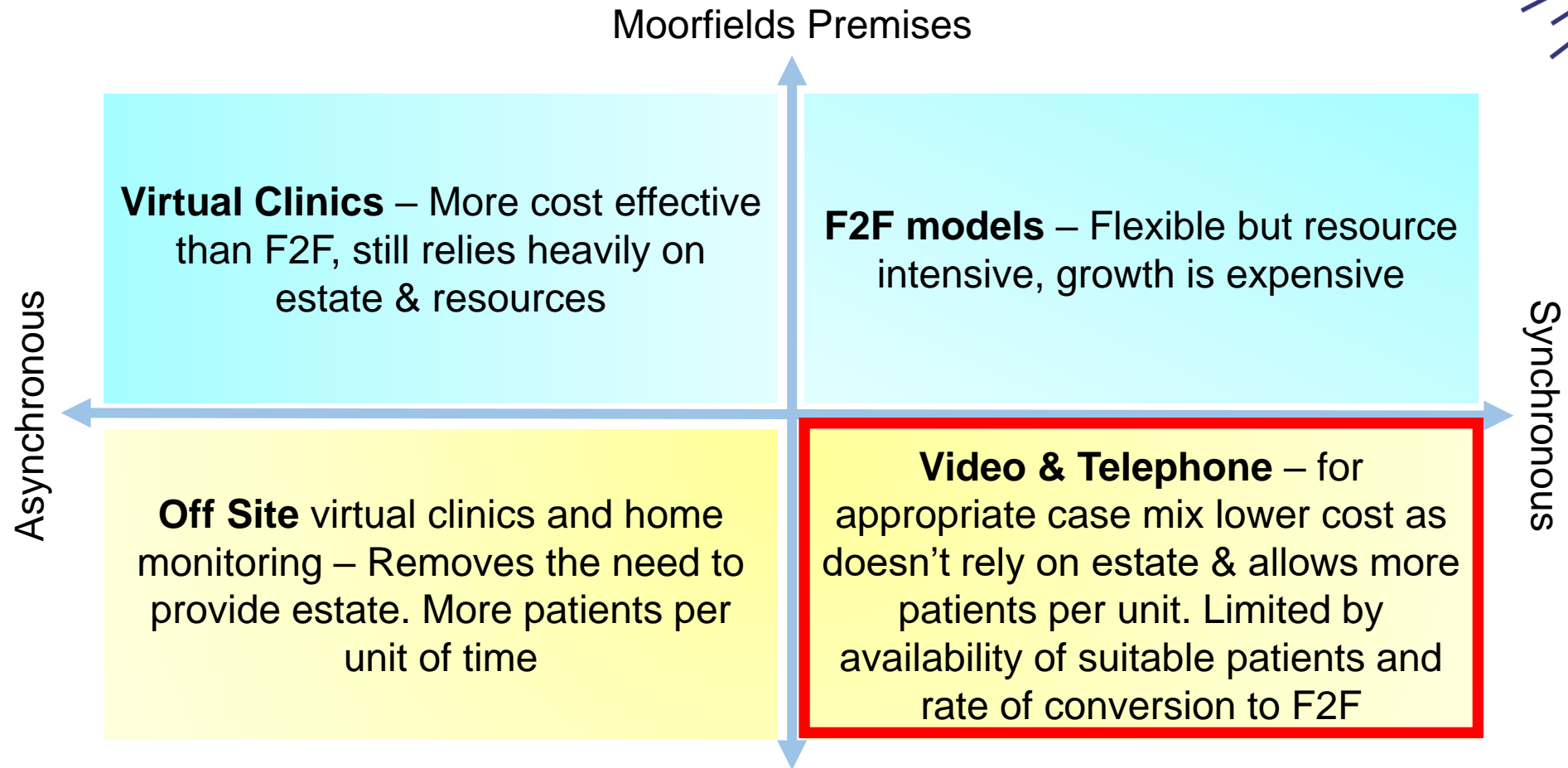
Peter Thomas

Chief Clinical Information Officer and Consultant Ophthalmologist
Moorfields Eye Hospital

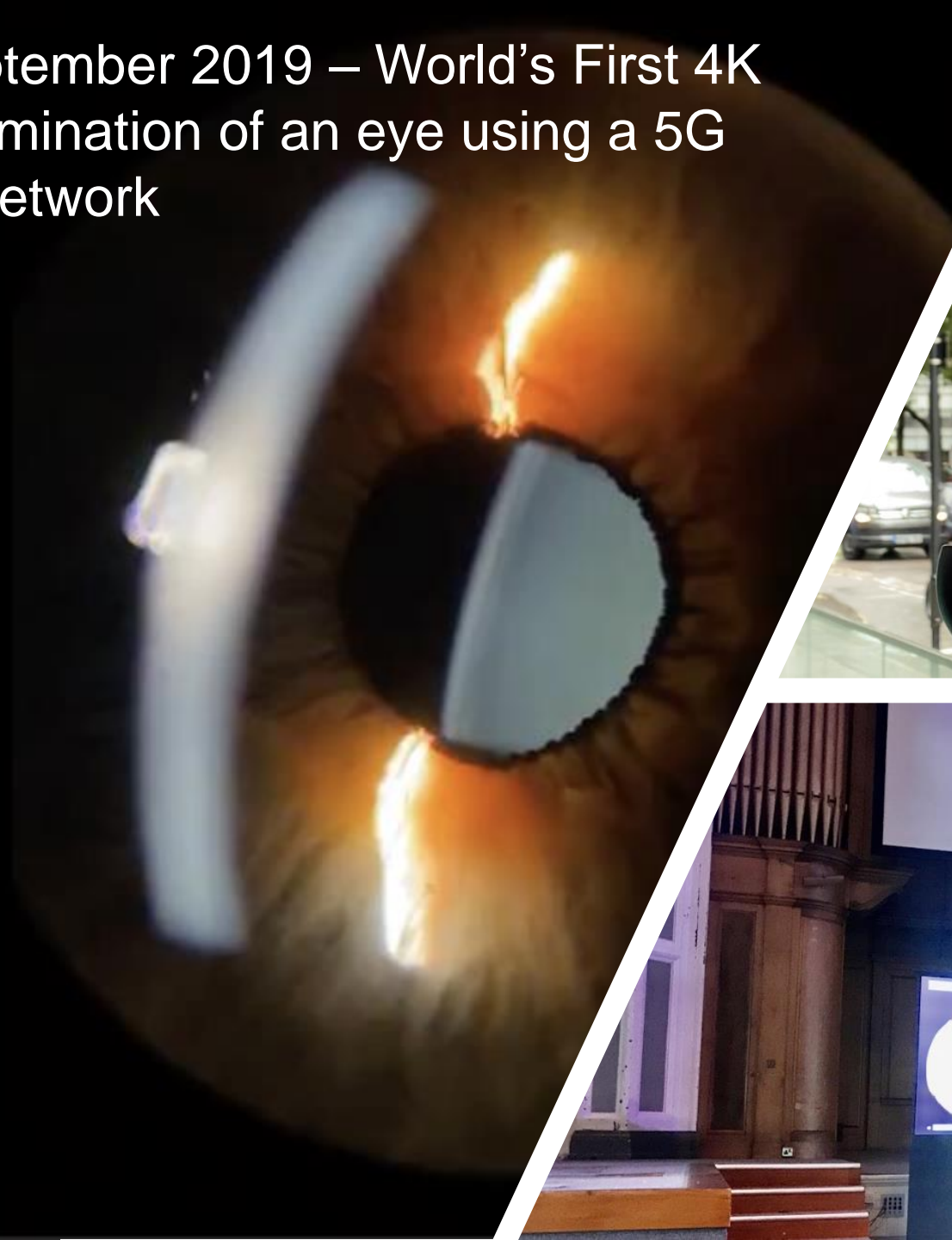
March 2023



A taxonomy of models of care



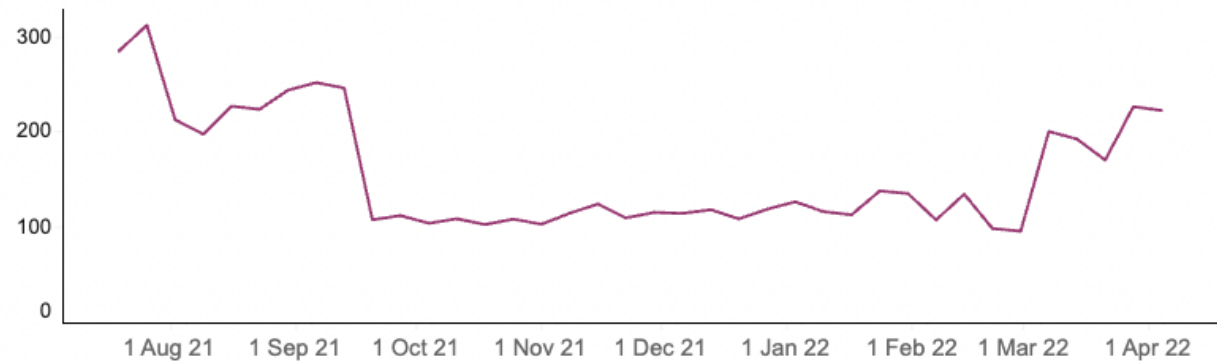
26th September 2019 – World's First 4K tele-examination of an eye using a 5G phone network



'Number of consultations' for Moorfields Eye Hospital NHS Foundation Trust

Trend Analysis

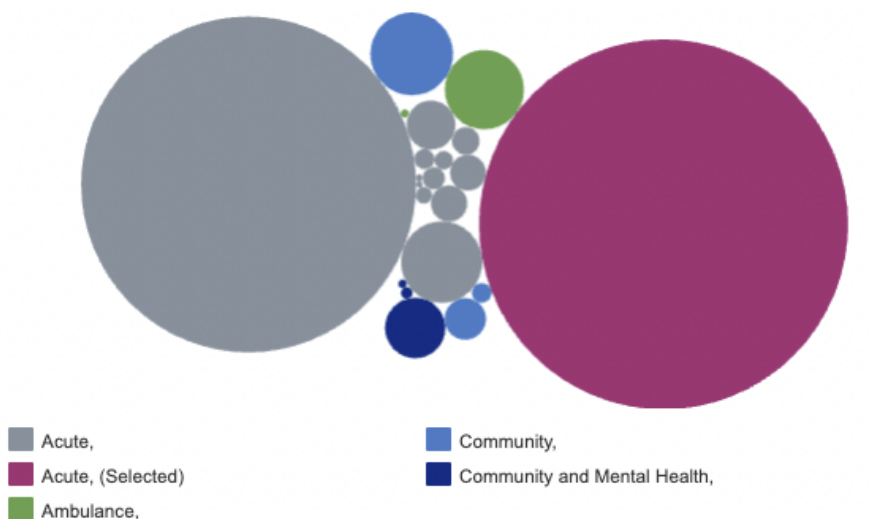
Number of consultations for clinical specialty 'Urgent and emergency care', by week
 (* denotes all)



Please note: Data are only available from 1st April 2021.

By Provider Type and Provider

Number of consultations, for specialty 'Urgent and emergency care'

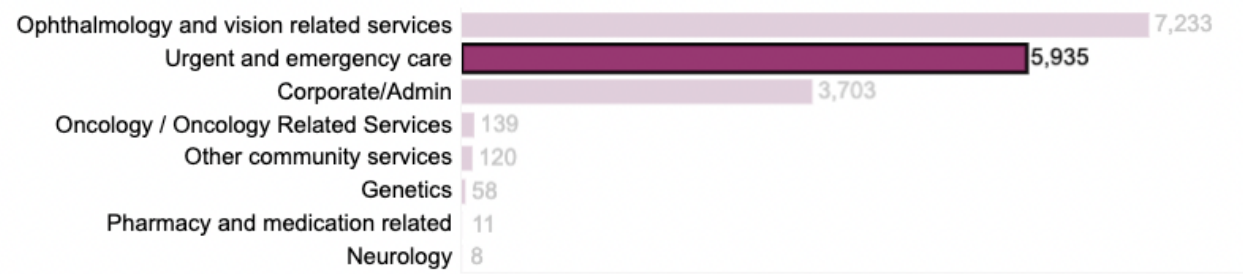


- Acute,
- Acute, (Selected)
- Ambulance,
- Community,
- Community and Mental Health,

By Specialty Level

(use chart as filter)
 Number of consultations by specialty

For 'Moorfields Eye Hospital NHS Foundation Trust', 44.1% of total activity, is available by clinical specialty.



View by Provider

(use as a filter)
 Moorfields Eye Hospital NHS Foundation Trust
 Number of consultations across all clinical specialties

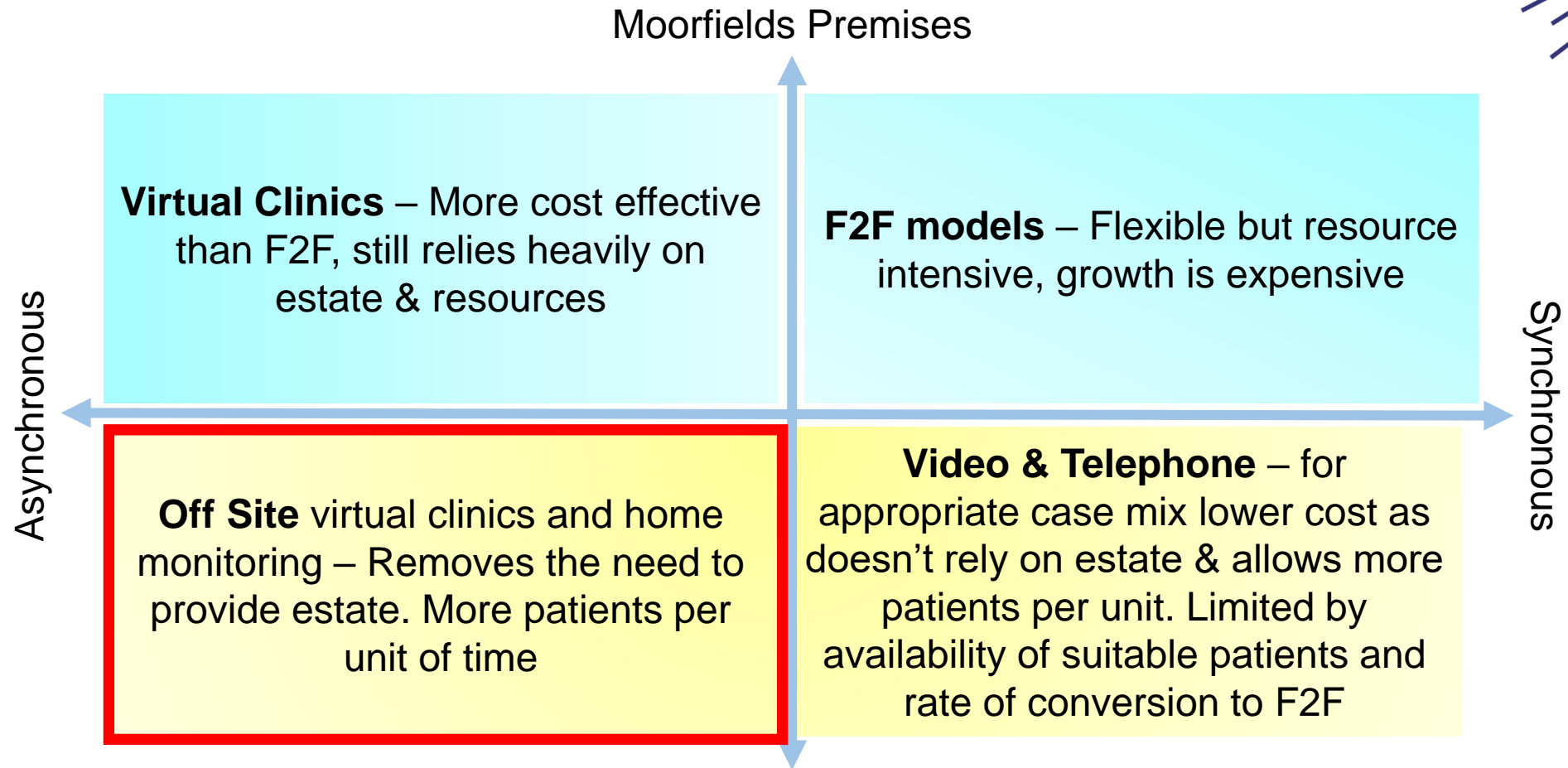


Please note: The data in the dashboard represents a subset of video consultation activity. NHS England and NHS Improvement do not have access to activity data for all video consultation platforms that providers and systems are using. Please refer to the cover page for full details and notes on interpreting the data. If you have any queries or comments, please contact nhsi.OTPAnalysts@nhs.net.



| | A&E video | Outpatient video | Outpatient telephone | Total | Equivalents |
|--|----------------------|-------------------------|-----------------------------|--------------|--|
| Travelling distance saved (km) | 246,316 | 241,542 | 926,436 | 1,414,294 | 1.8 times to the moon and back |
| Travelling time saved (hours) | 9,983 | 9,604 | 36,837 | 56,424 | 6.4 years of life |
| Travelling expenses saved (£) | £68,132 | £65,446 | £251,020 | £384,599 | 10.9 years of average UK salary |
| Volume of CO2 emissions saved (kgCO2) | 21,226 | 20,416 | 78,306 | 119,948 | 51,103 litres of petrol burned |

A taxonomy of models of care







Free parking

BRENT CROSS

BRENT CROSS
SHOPPING CENTRE

MENT C

Moorfields Eye Hospital and Moorfields Eye Centre
NHS

Moorfields at
Hoxton



Moorfields Eye Hospital and Moorfields Eye Centre
NHS

Moorfields at
Brent Cross

Appointment by referral only.
Moorfields Advanced operates a walk-in service from 9am to 4pm.

World leading
experts in eye care



Smartphone-based vision testing

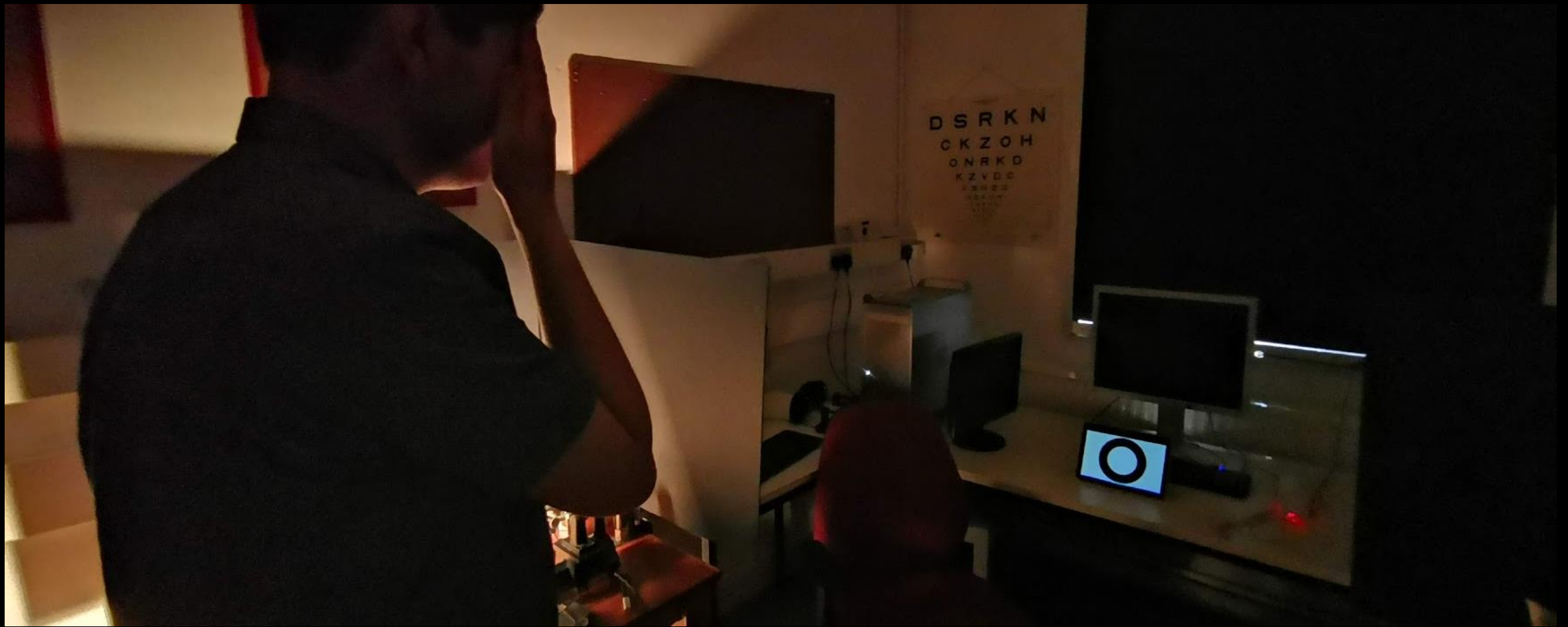


Source: alleye.io



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DSRKN
CKZOH
ONRKD
KZVDC



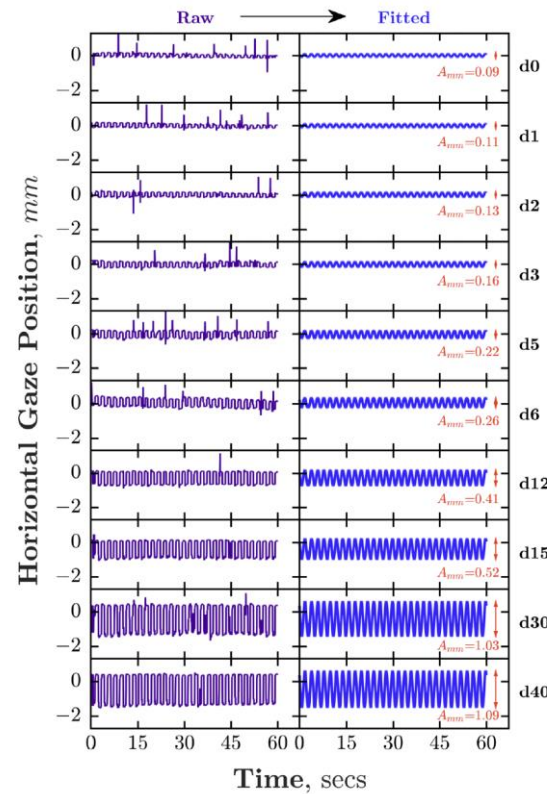
0-1 secs



1-2 secs



59-60 secs



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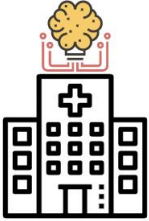
How to scale?



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There are **two** conceptual types of hospital that digital transformation could realise



The Smart Hospital

A physical hospital in which care is improved and made more efficient by technology.

The operational model of a smart hospital is very similar to that of a traditional hospital.

Conservative digital ambition.
Limits growth with fixed patient pool.
Does not fully utilise financial investment.
Some benefits are not achieved unless services can be scaled.
Glass ceiling to innovation capability.



The Digital Hospital

An organisation that delivers care via digital channels. Best understood as a telemedicine organisation, e.g. Babylon Health.

The operational model of a digital hospital is likely to be quite different to that of a traditional hospital.

Decouples service delivery from real estate and physical interaction.
Can achieve growth by scaling services within its operational model, and is best placed to take advantage of technology and analytics.
Forms partnerships with other providers to support end-to-end care.

Mercy Virtual Care Program

About Mercy

Home > About Mercy > Mercy Virtual Care Program

Mercy Virtual Care Services

Mercy Virtual delivers virtual care services to 600,000 patients across seven states (Arkansas, Kansas, Missouri, North Carolina, Oklahoma, Pennsylvania & South Carolina), improving patient outcomes and access while reducing the total cost of care. Operating 24 hours a day and is staffed with more than 300 clinicians, it's often called a *hospital without beds*.

Delivering Care Wherever It's Needed

Mercy's virtual care program creatively combines people and technology to extend Mercy's reach and services well beyond the walls of doctors' offices, hospital campuses and other traditional facilities.

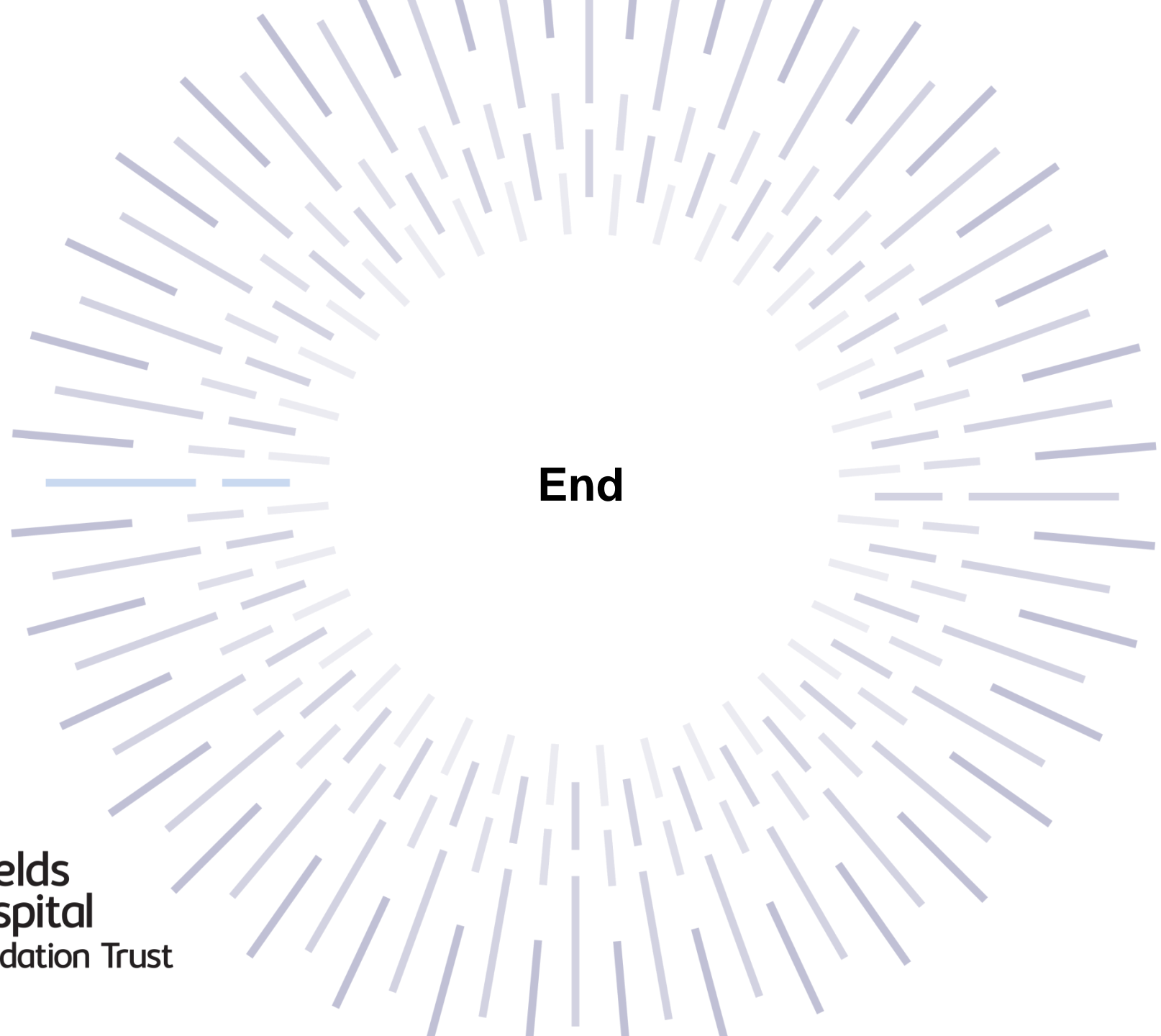


By studying the impact of new approaches and then putting new technologies to the test, Mercy ultimately hopes to provide better care through more convenient and lower-cost locations.

Mercy Virtual Care Center

The first of its kind, Mercy Virtual Care Center began operating in October 2015 without a single patient in the building.

Virtual care is delivered using highly sensitive two-way cameras, online-enabled instruments and real-time vital signs, allowing clinicians to "see" patients. Patients may be in one of Mercy's traditional hospitals, a doctor's office, or, in some cases, the patient's own home.



End



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