



@KateQuirke4

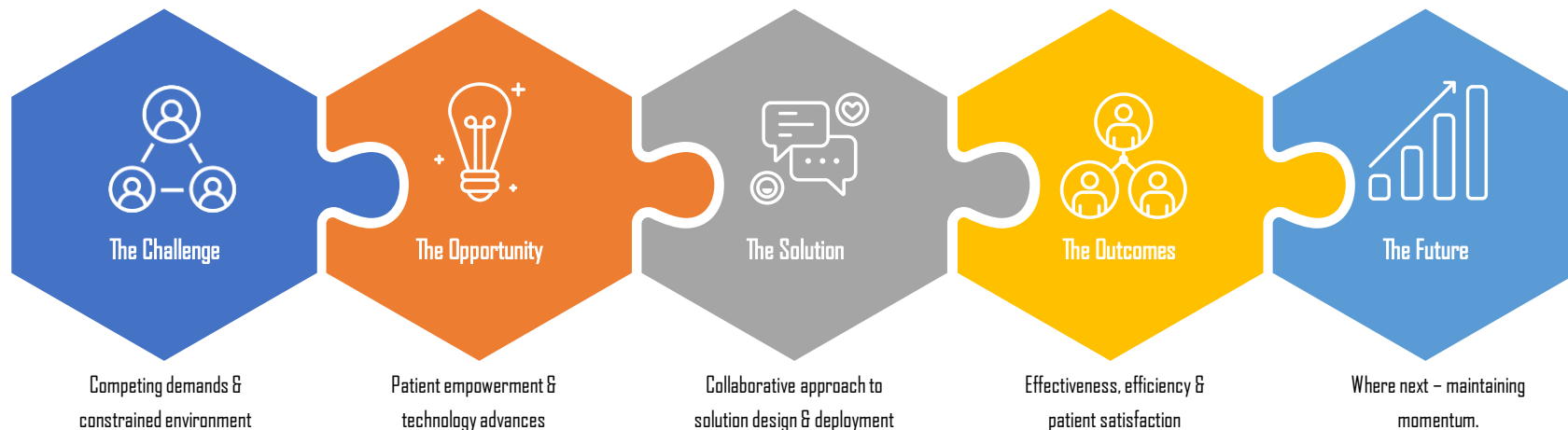
Virtual Care – technology & frameworks to support new models of care

Kate Quirke

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Alcidion



Agenda



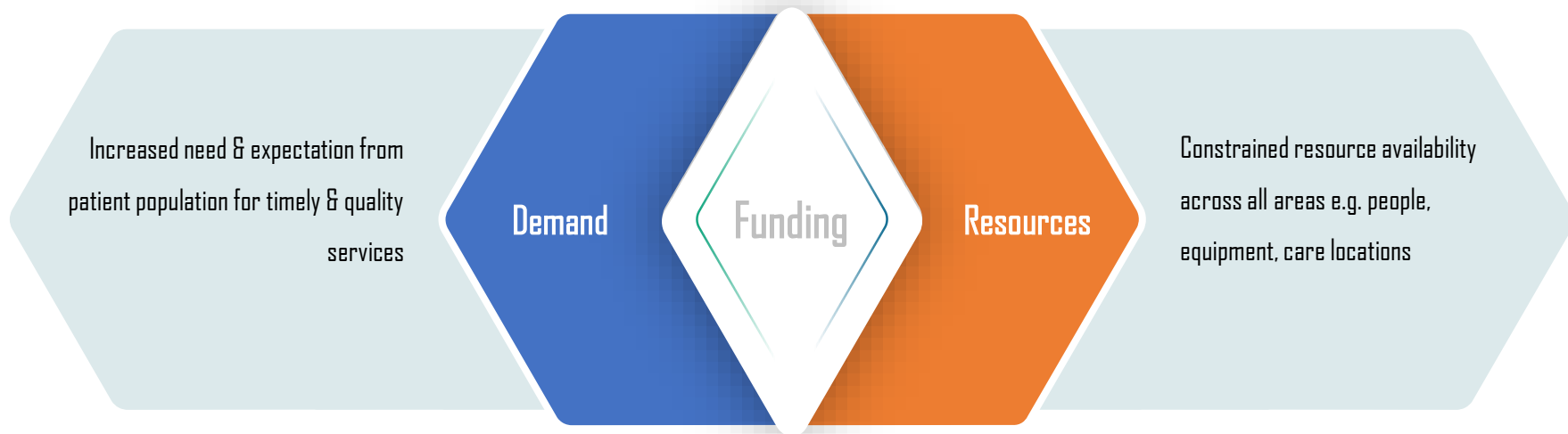


Supporting new models of care

- Setting the scene:
 - Telehealth accelerated during pandemic & creates opportunities to further improvement across healthcare system
 - Powerful new medical device technology is available & evolving – patient & provider perspectives
 - Adoption of digital capabilities is critical to lower barriers to clinical transformation



The Challenge



Funding remains same & models don't reflect care delivery



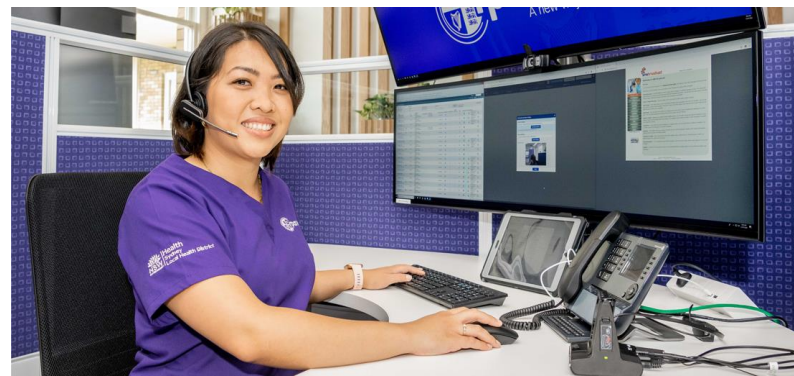
The Opportunity

- Apply modern technology to extend the reach of hospital-based care teams & avoid / minimise hospital stays
 - ✓ Candidate identification
 - ✓ Real-time interoperability
 - ✓ Tailored clinical information
 - ✓ Remote patient monitoring



Case Study: RPA Virtual

- Sydney Local Health District recognised need to expand resources to meet demand
- Determined that technology could be driver rather than “bricks & mortar” approach
- Identified Alcidion’s Miya Precision as platform to support virtual care & remote patient monitoring





The Solution

- FHIR event platform & FHIR based interoperability – Miya Precision
- Real-time, extensible, graphical UI highlighting tailored information to patient cohort
- Unified experience across all care settings:
 - “Round the clock” support
 - Measurable data to aid decision making
 - Smarter & safer care outcome



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COVID-19 Virtual Care

Patient	Stream	Location	Age	SARS-CoV2	ACD	Alerts	Comorb.	Contact	Review	Status	Symptoms	Tasks	Devices	Observations	Monitors
Jones, Mervin ID 029348203 8 Aug 1943	MED risk	Home Carer Wife	76 years	Positive Day 9 of disease	None		3	Today	Resp	Medium Temp	Temp > 38 Mild Cough Headache	<input type="checkbox"/> GP re ACD DUE <input checked="" type="checkbox"/> Refer comm. nurse <input checked="" type="checkbox"/> App installed	Device X 20 m ago	SpO2 96% Pulse 72 bpm Temp 38.2 °C	17/03 18/03 38.2 °C @ 02:24 18 Mar 20
Keen, Amanda ID 8239272278 3-Feb 1968	LOW risk	Home Carer Husband	52 years	Pending 32 hr ago	Full		No Sig.	Done 11:23 am	1:43 pm Resp	Low	Mod. Cough Mild SOB + 2 more	<input type="checkbox"/> Check results	Miya Care 27 h ago	SpO2 98% Pulse 68 bpm Temp 37.1 °C	15/03 16/03 17/03 18/03 37.1 °C @ 20:35 18 Mar 20

SARS-CoV-2 Test Result

Keen, Amanda 8239272278

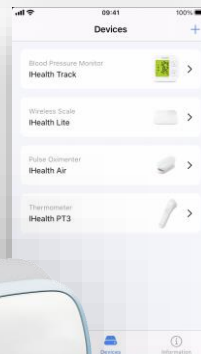
☐ Not Done
 ☒ Pending
 ☐ Positive
 ☐ Negative

SYMPTOMS & TEST DETAILS

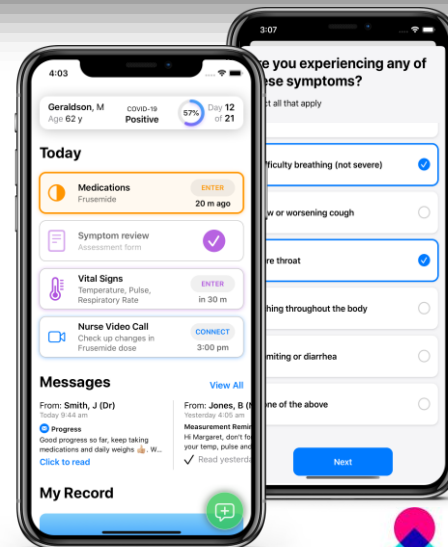
Date of symptom onset DD/MM/YY

Date of test DD/MM/YY Time HH/MM

Cancel Save



iHealth
Bioformis





Example Patient Cohorts

Acute Diverticulitis Home Monitoring

Patient	MyiaCare	Patient Tasks	Protocol	Contact	Medical Review	Symptoms	Flag	Observations	Heart Rate	Blood Saturation	Temperature	Docs
Ballard, Allyah NHI 3357973 53y		2 Overdue 0/9 Completed	ICAD, ...		UROL 37.7 d	Headache Nausea	Review Antib...	SpO2 94% Temp 35 °C HR 83 /min	83 /min @ 09:30 20 Apr 23	94 % @ 09:30 20 Apr 23	35 °C @ 09:30 20 Apr 23	
Bean, Blaze NHI 8652787 100y		0 Overdue 3/4 Completed	ICAD SD	Today	RESP			SpO2 96% Temp 37.2 °C HR 67 /min	67 /min @ 09:30 20 Apr 23	96 % @ 09:30 20 Apr 23	37.2 °C @ 09:30 20 Apr 23	

COPD Home Monitoring

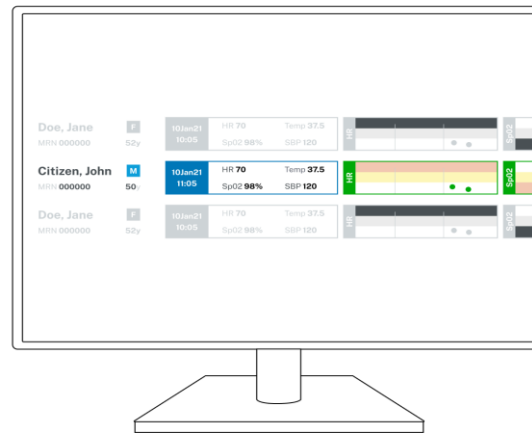
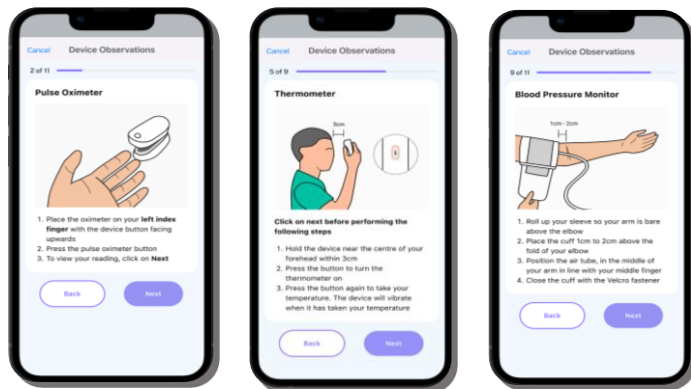
Patient Details	Myia Care	Stream	ACD	Care Protocols	Patient Tasks	Review Tasks	Review	Meetings	Risks	Comorb.	Symptoms	Location	Observations	SpO2
Bird, Lacey NHI 7422618 19y			Full Resuscitation	Exercise, REHA...	6 Overdue 0/12 Completed	6min Exercise Test Chest XRay	9 days	Today	MED	1	Mod SOB	H	SpO2 96% Temp 35 °C HR 77 /min	96 % @ 09:30 20 Apr 23
Burton, Xander NHI 2451876 32y			Full Resuscitation	Exercise	1 Overdue 0/2 Completed	Spirometry Retest	Tomorrow	No calls today	LOW	No Sig.	Wheezing	H	SpO2 98% Temp 35 °C HR 95 /min	98 % @ 09:30 20 Apr 23

Diabetes Home Management

Loc.	Patient Details	Note	MyiaCare	Tasks	Type	Referrals	Medications	Comorb.	Symptoms	Recent Labs	Care Protocols	Detected Issue	Meetings	Patient Tasks	Follow-up	BGL
2	Anthony, Lyra NHI 9608771 68y			Review BP (abnormal) Review Medications	Type 1	OPHT 38.9 d	Insulin	1	Blurred Vis...	HBA1C 6.7 LDL 25 mg/dL Creati... 0.9 mg/dL	Diet, DM, ...	10% increase in HBA1C	Today	2 Overdue 0/4 Completed	52 days	7.9 mmol/L @ 09:30 20 Apr 23
7	Byrd, Benson NHI 9977666 55y			Review Medications	Type 1	PHAR 38.9 d	Insulin	No Sig.	Headache	HBA1C 6.6 LDL 19 mg/dL Creati... 0.7 mg/dL	Diet, DM, ...		Today	1 Overdue 1/4 Completed	10 days	6.9 mmol/L @ 09:30 20 Apr 23



Virtual Care Home Monitoring



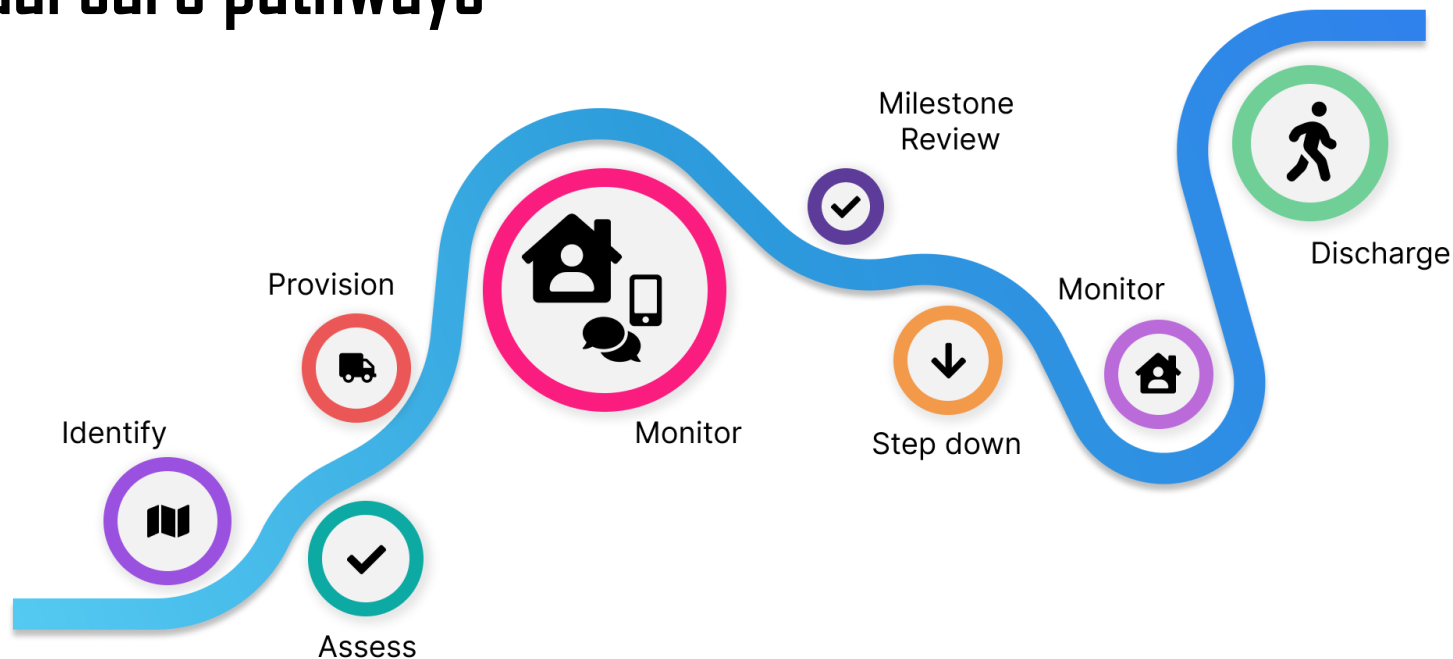


Benefits

- Tailored lists based on patient cohorts
 - Created via configuration rather than development
 - “Speed to value”
- Real-time information
 - Patient & clinical engagement
 - Remote patient monitoring & device integration
- Consolidated with digital patient record – not standalone



Virtual care pathways





The Outcomes - Patients

- Patients directly engage with their care team & actively participate in their health
 - Access not impeded by location, socio-economic status or language
 - High-risk patients can recover at home with dedicated care plans to manage their recovery
 - Hospital stay is minimised or avoided



The Outcomes - Clinicians

- Clinicians improve communication & heightened awareness through visibility of patient journey
- Real-time understanding of patient status
- Clinical Decision Support applied to highlight key criteria along with automation of common tasks



The Outcomes - Organisation

- Resource use optimised to rapidly target new patient cohorts & funding models
- Care delivery template utilised to rollout care to new cohorts for eligibility screening, equipment dispatch & remote management
- Consolidated monitoring command centre provides a tracking & management of patient remotely



The Outcomes

- RPA Virtual Clinical Trial
 - Clinical trials of home monitoring are rare & largely untested
 - Remote clinical trial (65 respiratory inpatients) gave the all-clear for use of Miya Care & iHealth devices for remote monitoring of BP, SPO2 & Temperature
 - Variance in readings with iHealth pulse oximeter was comparable to hospital devices (despite some issues raised re unreliability with cold fingers or movement)
 - User satisfaction using Miya Care with iHealth devices was found to be acceptable (SUS 78% for 8 patients)

*Lessons for remote monitoring from COVID-19
RPA Virtual 29 November 2022*



The Future

- COVID created “kick start” but we need to maintain momentum & extend model to other disease cohorts
- Technology is proven & accessible
- Model will save significant demand on scarce resources & money
- Patient satisfaction & experience improved through hospital avoidance

A bright, multi-pointed starburst or galaxy core is positioned in the upper right quadrant of the slide, set against a deep blue background filled with numerous small, distant stars.

What is stopping us?

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Thank you

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