It's Healthcare, But Not as We Know It. Delivering Health in the Post-Pandemic Era

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AIDH

AUSTRALASIAN INSTITUTE OF DIGITAL HEALTH

*We are in the business of
leading & supporting
those who are
delivering the future of healthcare*

Australasia's peak professional body for the digital health, e-health and health informatics community. Members represent a broad and diverse stakeholder community including clinicians, researchers, healthcare managers and executives, data analysts, designers, project managers, business analysts, technologists, innovators and health informaticians. With clinical alliances, corporate collaboration, education sector support and strong government relationships. As a leading member of the global health informatics network, AIDH is also the forum for sharing international best practice, digital healthcare trends and health system innovation.

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WHAT IS DIGITAL HEALTH? AND WHY DOES IT MATTER?

White paper

DIGITAL HEALTH
WORKFORCE ACADEMY

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DIGITAL HEALTH

David Rowlands

https://digitalhealth.org.au/media-centre/publications/

THE ERA OF
DIGITAL HEALTH

The era of digital health is upon us. It is fundamentally different from what has come before, with profound influences on health and healthcare.

What has come before

ICT in Health   **1950s – 1960s**

1st WAVE

- Mainframe computers
- Focus on corporate support functions such as accounting and payroll
- Applications were function driven
- Industry agnostic (not health specific)

Health ICT   **1960s – 2000s**

2nd WAVE

- Practice management systems
  Big integrated systems
  Best of breed systems
- Focus was the healthcare organisation
- Corporate applications for logistics and performance management
- Health service provider centric

E-Health   **2000s – 2020**

3rd WAVE

- Enterprise and system wide information flows begin
- Shared health records and health information exchanges
- Focus on whole of health system Health system centricity
- Patient following but still provider centric
- Governments as key players in and funders of e-health
- Healthcare as a process rather than health as an outcome
- Bulk of healthcare data provider-originated and controlled

THE FOURTH WAVE:
DIGITAL HEALTH (2020+)

DIGITAL HEALTH =
HEALTH AND HEALTHCARE IN THE DIGITAL SOCIETY

Digital Health is about HEALTH

The 4th wave
A great leap forward along the evolutionary path of ICT in healthcare

Tech
Enabled by exponential increases in the pervasion of ICT throughout society

Decentralised
With service providers as participants, not controllers

Citizen centric
Driven by citizens' demands that their health and wellbeing are controlled by them and expectations for digital service delivery embedded within their life patterns

Data, data everywhere
Harvests data in real time from sources within and outside of traditional health settings

Knowledge
Generated via sophisticated analytics

THE DIGITAL HEALTH ERA IS CHARACTERISED BY
7 MAJOR SHIFTS

1. CITIZEN AND CONSUMER CENTRICITY

Citizens choose where and how they store their data, who they share it with and expect service models to fit their life flows

2. NEW ENTRANTS

Big tech disruption with non-healthcare companies becoming health data companies

3. INDUSTRY CONVERGENCE

The boundaries of health service delivery overlapping with other sectors /industries

4. ROLE CONVERGENCE

Boundaries of clinical professional practice diverge and meld

5. ORIGIN OF DATA

Vast amounts of new health and health-relevant data captured outside of traditional clinical care settings

6. ANALYTICS AND ALGORITHMS

New analytical capabilities drive new models of care

7. BROADER THAN HEALTH

Dissolving the arbitrary boundaries placed between health, aged care, mental health, social services and disability sectors

The shifts result in changes to

Longstanding business and funding models

Policy settings

Professional structures

The role of the citizen

DIGITAL HEALTH AND THE RESULTANT DISRUPTION PROVIDES OPPORTUNITIES AND CHALLENGES FOR

Citizens | Clinicians | Policy makers and regulators | Health executives | Technology suppliers | Media and influencers | Universities / educators

JOIN THE NATIONAL CONVERSATION AND HELP US CREATE HEALTH FOR THE DIGITAL SOCIETY

DIGITAL HEALTH WORKFORCE ACADEMY

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Daily updates

The Coronavirus Pandemic

Telemedicine on the rise in Saudi Arabia amid pandemic

Updated 29 April 2020

RASHID HASSAN

RIYADH: In response to the elevated risk level from the coronavirus disease (COVID-19) pandemic, various hospitals in Saudi Arabia have accelerated telemedicine health services, offering secure and virtual face-to-face interactions with doctors. Patients can now easily access medical consultations from the comfort of their homes.

Dr. Al-Jishi told Arab News: "Tele-psychiatry began in the 1950s when teleconferencing was used for group therapy and consultation liaison psychiatry. In the 1990s, video visits spread further to provide psychiatric care in underserved areas around the world. In the decades since, studies have shown 'telehealth' options to be equivalent to in-person psychiatric care in diagnostic accuracy, treatment and effectiveness."

ARAB NEWS

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Home Based Workforce Turns to TeleHealth: International SOS Expands TeleConsultation to 17 Countries and Territories Worldwide

Coronavirus Fuels Explosive Growth In Telehealth — And Concern About Fraud

Coronavirus: Virtual therapy is booming during the pandemic

FCC programs offer $300 million for telehealth support

Hancock: NHS needs to 'double down' on tech advances after Covid-19

Call the midwife: Telehealth has arrived

Telemedicine, Once a Hard Sell, Can't Keep Up With Demand

The new coronavirus outbreak is testing the industry's capacity, sending companies scrambling for doctors and new services

Doctors discover telehealth's silver lining in the Covid-19 crisis

Telehealth-bringing healthcare to you

Doctors turn to telehealth, patients avoid urgent care visit

Amid pandemic, a turning point for telemedicine

Issued on: 12/04/2020 - 03:46 Modified: 12/04/2020 - 03:44

Coronavirus has become the booster shot that telemedicine was waiting for in India

Paradigm shift in India's healthcare system: Telehealth, telemedicine being used amidst COVID-19 pandemic

Doctors turn to telehealth, patients avoid urgent care visit

1 minute left

COVID-19 PANDEMIC
THE FUTURE OF TELEHEALTH
CHANGES AFTER OUTBREAK

by: Brooke Reese
Posted: Apr 22, 2020 / 04:25 PM CDT / Updated: Apr 22, 2020 / 05:08 PM CDT

Rehab Therapist & Telehealth Pioneer Shares "Lessons Learned" in Net Health Webinar

Backed by years of experience, David Grigsby, MPT, cert MDT, offers advice for how to get started implementing telehealth services for physical therapy patients

By Net Health Systems, Inc.   Apr 23, 2020 Updated 2 hrs ago.

Trump signs executive order to expand telehealth, boost rural health care

by Heather Landi | Aug 3, 2020 5:43pm

Has Telehealth's Time Arrived?
Advocates hope that remote consultation will change patient habits and revolutionize the way that care is delivered—but lots of uncertainties remain.

Digital doctor demand goes through the roof
The coronavirus pandemic could be what pushes digital health into the mainstream — if these startups don't mess the next few months up.

Australia's telehealth revolution: Coronavirus is changing the way we access healthcare

Covid-19 ignited the adoption of telehealth. Now it's here to stay

Telehealth & Digital Health

(can be) big business

DIGITAL HEALTH VENTURE FUNDING
2016-H1 2020

ROCK HEAL+H

2018 $8.2B
2019 $7.4B
2020 $5.4B
2017 $5.8B
2016 $4.6B

Note: Only includes U.S. deals >$2M; data through June 30, 2020
Source: Rock Health Funding Database

TELEMEDICINE, HEALTH SERVICES

Livongo, Teladoc strike $18.5B merger, creating a digital health behemoth

Teladoc will acquire digital health company Livongo for $18.5 billion. The deal would combine one of the largest telehealth companies with a platform for managing an array of chronic conditions, including diabetes and heart disease.
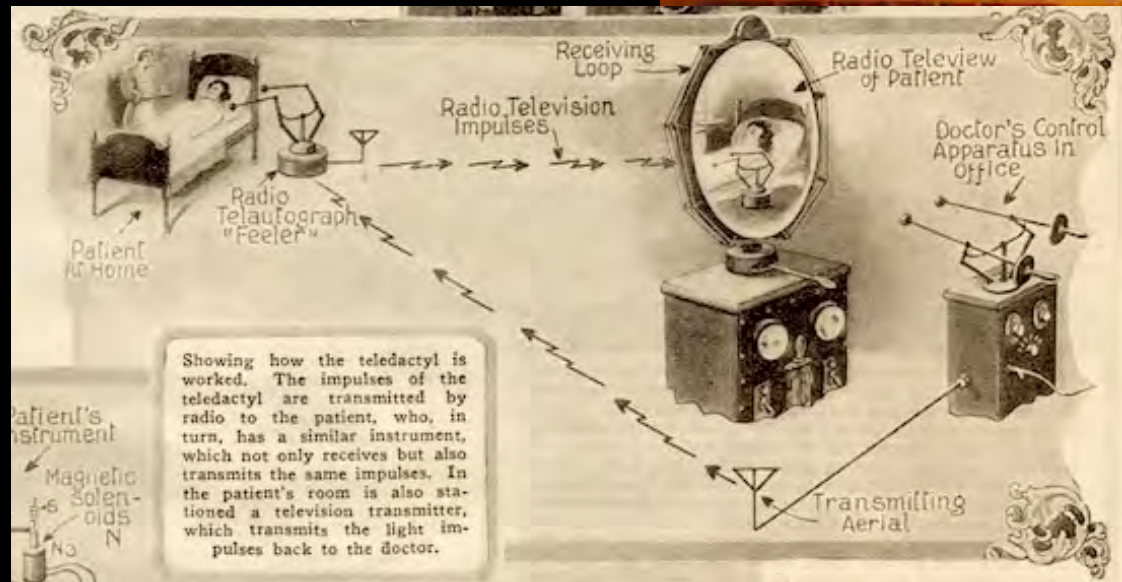
By ELISE REUTER

Post a comment / Aug 5, 2020 at 12:18 PM

Teladoc's virtual visits grow 200% in Q2

Teladoc continues to prosper from the boom in virtual care as revenue in the second quarter surged 85% to $241 million.

by Heather Landi Jul 30, 2020, 7:05 AM

TELEHEALTH PREDICTED IN 1925

1901 – first ECG transmission from hospital to lab 1.5kms

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Telehealth

- Govt – 10 years of innovation in 10 days
- Tele-mental health has long been an established part of the health system
- Evidence confirming its effectiveness

ICT® INFECTION CONTROL TODAY®

News | HAIs | Hand Hygiene | Disinfection | PPE | Environmental | Technology

Telehealth in the Time of COVID-19: A 20-Year Overnight Success

By **Jan Dyer**
April 8, 2020

EVERYTHING OLD IS NEW AGAIN 🤔😂

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Telehealth at Scale

- From limited utilisation to mainstream?

- The literature shows countries and health services have experienced anything from 300% increase to 2000%+ increase in the use of telehealth
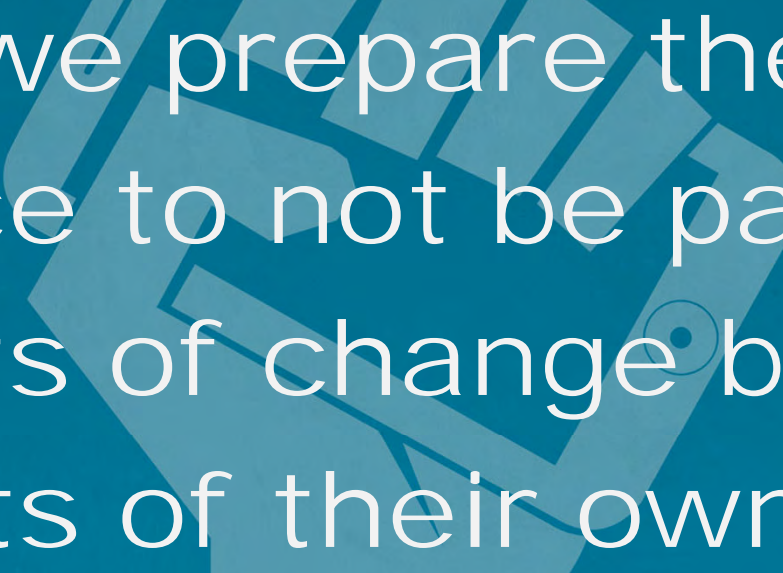
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KEEP
CALM
THERE'S A
PARADIGM
SHIFT
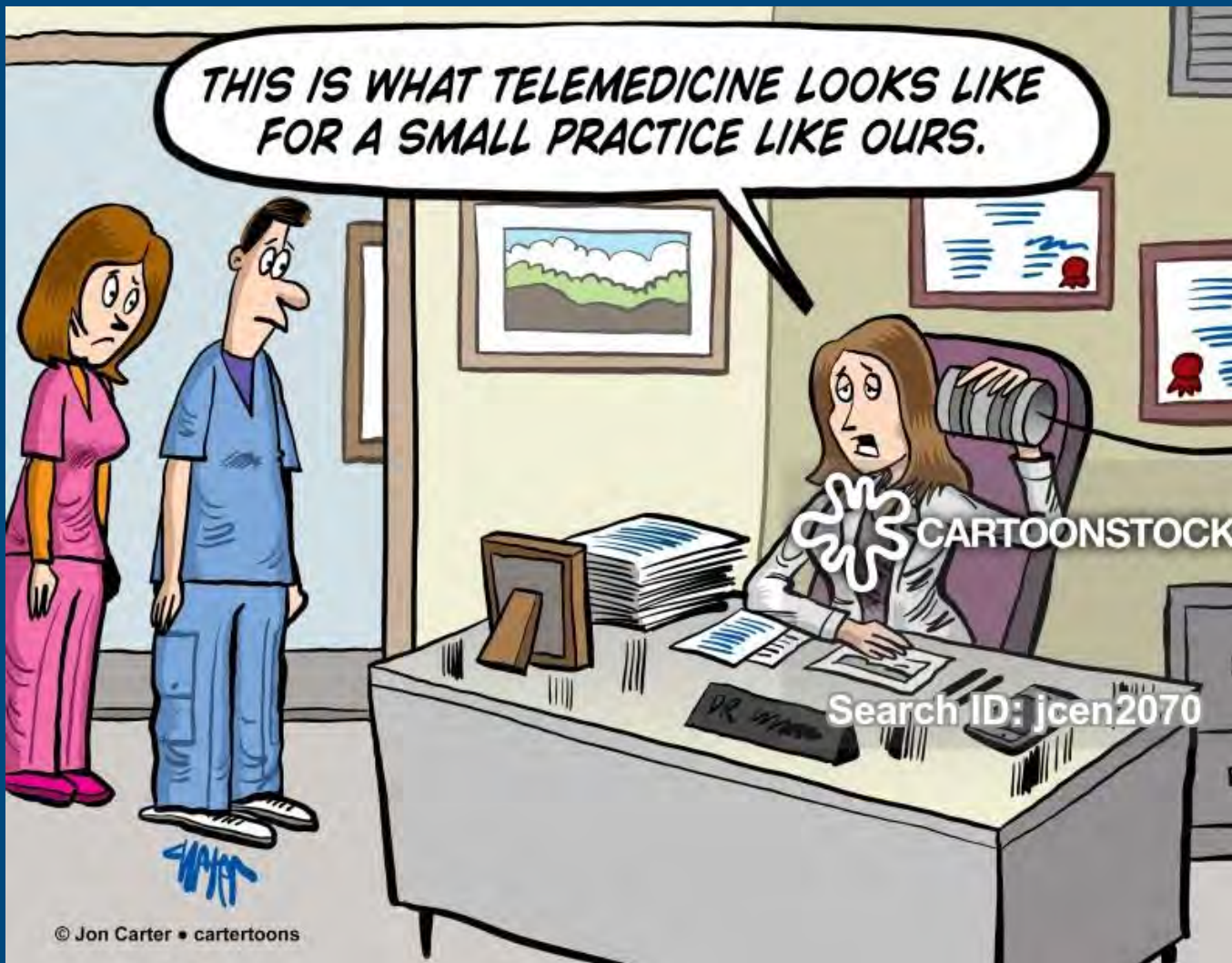GOING ON

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Healthcare is changing and evolving

Healthcare that was once delivered in doctor's offices and in hospitals will increasingly reach consumers over a phone (video), an app, a retail clinic – in people's homes and in their communities

How do we prepare the workforce to not be passive recipients of change but be architects of their own destiny

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Healthcare delivery in the post-pandemic era
Universal truths we can expect:

Transformed models of care

1. The technological approach will NOT be universal
2. Universally, every single healthcare organisation is going to have to re-write their business plan

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Healthcare delivery in the post-pandemic era a rise of:

1. A 'virtual first' approach

2. Clinicians and patients as collaborators and partners

3. Bring back the house call

4. Specialist virtual-only providers

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Healthcare delivery in the post-pandemic era
We will need:

1. Data
2. Data sources
3. Data interpretation
4. Data and technology standards

Digital divide – no person left behind

Healthcare Innovation
@HCInnovationGrp

There's been a telehealth surge across the U.S. in response to the pandemic, but many older U.S. adults are not ready for video visits, a new study finds

JAMA Study: 38 Percent of Older U.S. Adults Ill-Equipped for ...
72 percent of adults who were 85 years or older met criteria for unreadiness, according to the research.
🔗 hcinnovationgroup.com

11:05 PM · Aug 10, 2020 · Hootsuite Inc.

🔁 The Lancet Digital Health Retweeted

The Lancet Digital Health @LancetDigitalH · Jul 28
"The possibility that the current COVID-19 outbreak is an event likely to be repeated is chilling, but one that should prompt even greater efforts to abolish the digital divide." Geoff Watts reports on #COVID19 and the #DigitalDivide in the UK.

L
COVID-19 and the digital divide in the UK
Any health-care development that doesn't rapidly become available to all individuals has the unintende...
🔗 thelancet.com

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Healthcare delivery in the post-pandemic era
Workforce support and upskilling

1. **Specialists** in health informatics and digital health

2. **Digital health literacy** across all the health and care workforce

3. Define and set **standards** for **professional practice** and **professional practice guidelines**

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Healthcare delivery in the post-pandemic era
Workforce support and upskilling

4. **Skills development and validation** (tailored education, certification, CPD)
5. Professional **career pathways**
6. **Accreditation** of education programs
7. **Digital maturity modelling** and benchmarking of employer organisations

Workforce Development

Technology NOT to be a replacement for or 'solution' to under-staffing and resource constraint issues

@louise_schaper

Thank you

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LEADING AUSTRALASIA'S DIGITAL HEALTH MOVEMENT

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