#DHSS23

Simon Wallace

CCIO

Nuance Communications, a Microsoft company



The Complexity of Healthcare

"Medicine used to be simple, ineffective and relatively safe"

"Now it is complex, effective and potentially dangerous"

Professor Sir Cyril Chantler, Honorary Fellow, ULC Partners
Former Chair of General Medical Council Standards Committee – stated in 1998

EDITORIAL

List of covid-19 symptoms must be updated

Pailure to list new variant symptoms is a threat to pandemic control in the UK

variant of SA35-07/-2 m/s the US, and the Week! Bookh Organization wanting distinct of Buree will have been informal section the next on complete weeks," we must respond and offant our approaches to meet the challeness Kyoses, Although studies have found. factoricion is less likely to cause severe lines from the delta sortant, this highly infectious strain of SARS-CoV-2 has drived covid-19 rates to the highest version in the UK. The KES remains stresched to breaking point, with several hospitals decision critical incidents' because of rising

programs and stable finances. Acceptable boosting worthwards of the policy control, man, and include system maximum are stable system maximum as a stable system and the system of the stable system and the stable system and the stable system and patter boost. So any other many depth of the stable should also a forgation and the presentant to conducting to fall of these stable stable system and patter boost said to be so that the government to conducting to fall of the stable stable system and the system and the

monging. That ornizon infection produce milder symptom and causes less sewer tilmen to extistely a good fring. but in aboreon that it is much. harder to detect, making an effective esting programme more cruckal han ever Given that we now know iron, research such as the 200 study that the retinary wenders of the organic warrant include many nose headache, letione, successor, and one desac 'this professed is underbrid that the government has not updated is afficial-and now outdoed-list of symptoms, which highlights high temperature, a new continuous court g a loss or change to sense of smell

Maggle Ras, president, faculty of Fuelic Health, London Provident publicagous

Training Private any 2000



Across the world, government agencies, including MTIC and the symptoms of US Centers for Disease Control and Prevention, have podeted their case variant includ definition of covid-19 to include more disease symptoms, thus areally reducing the Emerhold for people to instand isolate when appropriate. Unless the UK follows the clear exidence on the examplores caused by the omicron variant and updates its guidance in step with global partners we will see the effectiveness of our evapouse programme compromised b

un unfit case delication. Scroping so with covid-19

Signific to improving donestic and international vacatise uptake, fire importance of a well functioning testing seeing current be overemphasised in our efforts to tackle could 19. The Scientific Advisory Group for Expenserative recommends that we prioritise the upid resting of symptomatic people over testing active promotic people in outbrook areas to have the greatest effect. on Mentifying cases and reducing transmission. With the government's definition of coeld-19 symptoms not reflecting the evidence on omicross. infected people are not testing as lealaring and are continuing to spin this highly infectious virus.

this highly infections virus.
Of course, if government itsens
to estimate and expands the case
distribute for costd-19, the number
of secole meding and believing

well tamour. This likely turnous in domain and be matched with increased opportly within the testing system. Provides have wareful the plannar to a error fire of horse likely and the plannar to a error fire of horse to fixed horse to the old horse people of the old horse people in the discharge held to other horse to the charge held to be provided and dangerous disturbing to support and help the public in tribing weep parton possible in present the speed of model (a). He powerment the speed of model (a) the powerment in the provided held of model (b) the powerment in the provided held of model (b) the powerment and approximately meaded their power powerment and deletified on model for their consistence of model (b). The powerment may not the power power them to the power their provided and deletified on model for their consistence of their power powerment and deletified on model for their consistence.

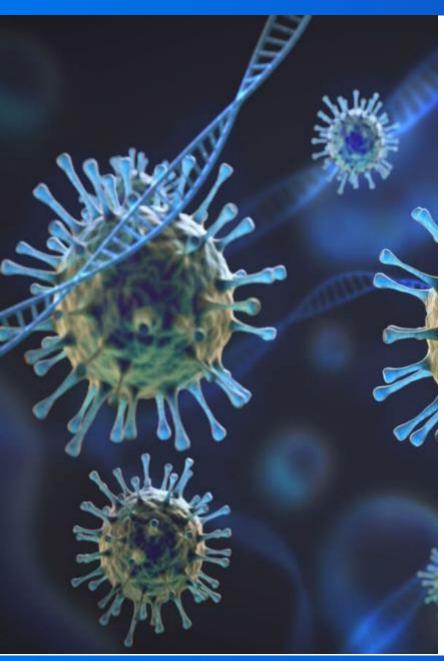
As well as a well functioning testing coolers, these mean be before support for those required to isolate us a regul of a positive test result. Throughout the pandentic we have seen the plant mesquence of health temperation pley out, with the communities most at risk of serious illness from power-19 also the local likely to come keward for unting and waxing ton. Although some femoral support is available for those who need it to self-isolate, these pachages do not so far ensuch, or move fast enough to offer the safety net needed by individuals and families in our mosdisadvantaged communities

Currenission to control and prevent the spread of covid-19 to cave lives and protect the NESS remains unchanged, and booring specifie uptake alongside our two, trace, and isolate-conten penalty our most important mais in achieving this aire. But if these servers are re-continue to delive results, they trust be supported by timely and accurate public health managing. Not following clear evidence and updating the case definition for posid-19 is a follow of government that threatens the effectiveness of the measures we have put in place to control the spread of the disease. City Brit and BAY 1980 (PM of 21)

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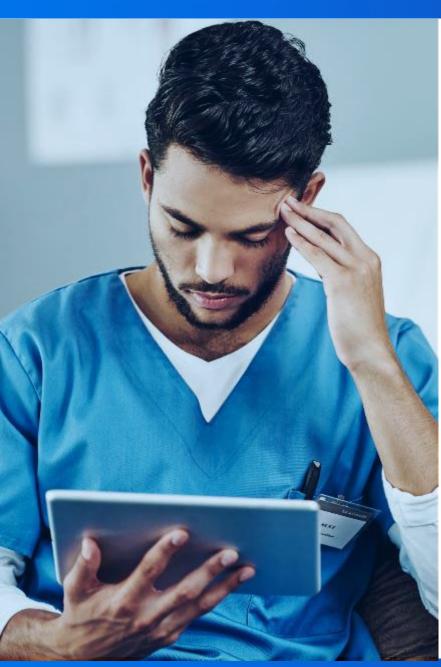
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The Importance of Clinical Documentation

The Increasing Complexity of 21st Century Medicine COVID-19 has demanded detailed documentation

- Medicine has become more complex and so has the documentation needs:
 - COVID has demonstrated this with new symptoms, treatments and outcomes
- This requires detailed quality recording in all document types, particularly the narrative (free text), for example:
 - Admission note, ward round note, progress note, operation note, discharge summary, outpatient letter.



Clinical documentation and administrative burdens continue to overwhelm clinicians

13.5 hours

per week (a third of working hours) is spent on clinical documentation.¹

25%

more time is spent on clinical documentation than 7 years ago.¹

3.2 hours

per week spent out of hours on clinical documentation.¹

62 minutes

per day is spent searching for missing information.¹

£57K

per annum - the value of time for a Consultant Doctor generating clinical documentation and searching for missing information.¹

68%

of clinicians felt it was likely or very likely their notes would be more complete with more time.¹

85%

of NHS healthcare professionals felt the burden of clinical documentation is a significant contributor to burnout.²

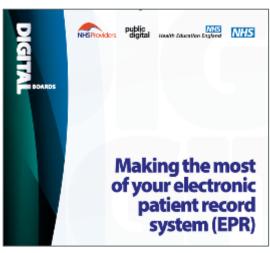


The usability conundrum of electronic patient records

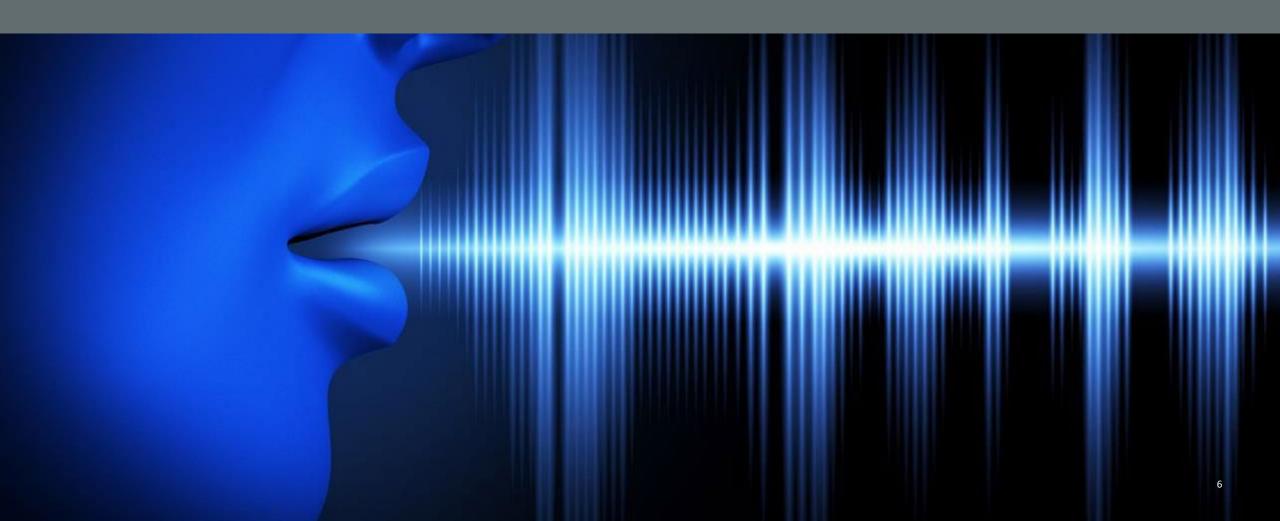
Various research indicates:

- Clinicians report usability problems to be the most common barrier in using EHR systems [1]
- Clinician burnout has been linked to increased documentation, following the adoption of the EHR.
- In a 2019 survey, no UK ED EHR system met the internationally validated standard of acceptable usability for information technology.
- NHS Providers Report a few key takeaways:
 - A non-optimised EPR creates burnout and frustration for staff.
 - You cannot rely on staff motivation alone for the EPR to be used as it is intended.
 - Start by simplifying the EPR and making it as easy to use as possible...





To speak or not to speak...







Al-powered Clinical Speech Recognition

- Transforms spoken words into text
 - Speech is at least 3x faster than typing
 - No voice profile training required and 99% accurate
 - Cloud based: Single voice profile mobility accessible on different devices in different locations, including from home
 - Templating feature promotes adoption of PRSB, GIRFT
 - Voice commands simplify repetitive tasks such as EPR navigation
- Key focus: Giving time back to clinicians
 - Improves quality of clinical documentation and clinical safety
 - Voice reduces the burden of repeatable, onerous tasks in the EPR
 - Streamlines documentation workflow and accelerates turnaround times







The Topol Review

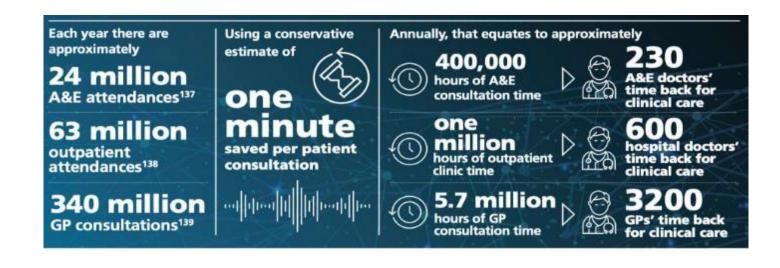
Preparing the healthcare workforce to deliver the digital future

An independent report on behalf of the Secretary of State for Health and Social Care February 2019



Report: Impact of Voice in Preparing NHS Workforce for Digital Future

- Innovative technologies -- genomics, digital medicine, AI, and robotics – key to improve services
- Speech recognition and natural language processing (NLP) in top 10 digital technologies impacting NHS workforce 2020-2040:





NHS Long Term Workforce Plan

June 2023



The first comprehensive workforce plan for the NHS, published June 2023

4. Reform – Working and training differently

- Administrative automation: significant workforce benefit can be gained from the automation of administrative processes, including through AI applications such as speech recognition.
- 44% of all administrative work in general practice can be mostly or fully automated.
- A number of hospitals and general practices have already begun to use speech recognition technology to record clinical documentation, allowing staff to focus on patients as well as minimising manual record keeping and improving the quality of data input.

https://www.england.nhs.uk/long-read/accessible-nhs-long-term-workforce-plan/

Unlocking the value of voice recognition

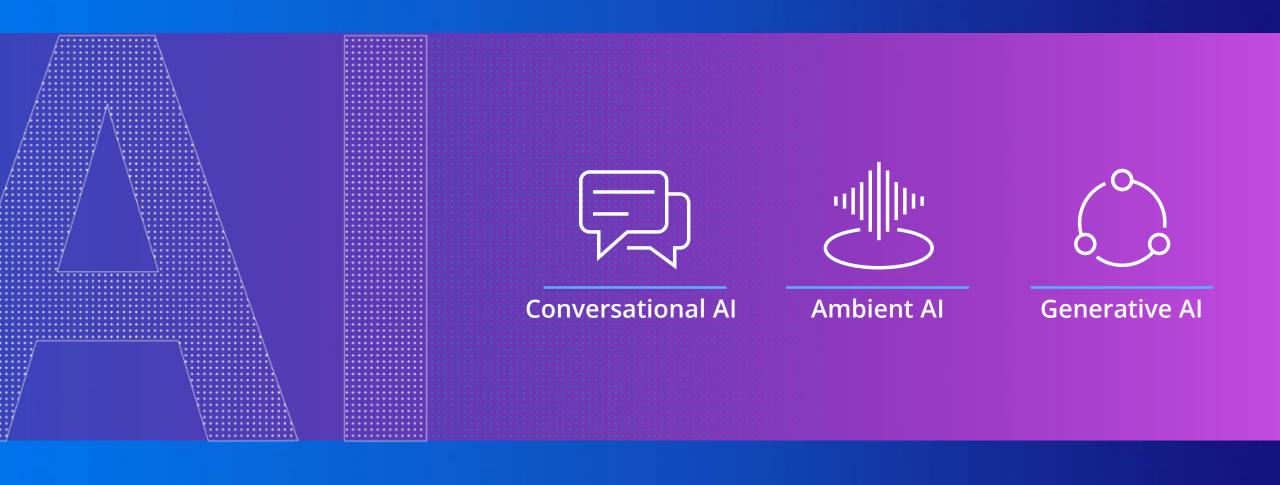
Empowers clinicians and accelerates digital transformation

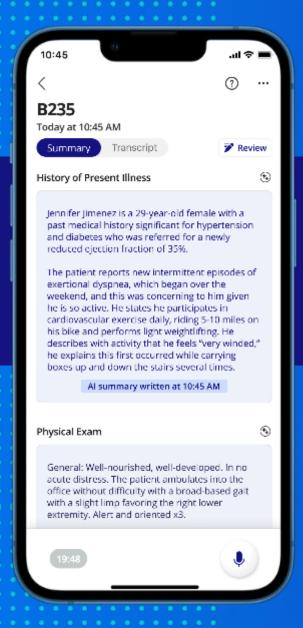
- Voice reduces the burden of repeatable, onerous tasks in the EPR:
 - Simplified, intuitive navigation
 - Streamlined request of investigations and order sets
- Voice increases adoption of the EPR:
 - Voice enabled templates to improve the experience
- Voice is the foundation on the path to "Ambient clinical intelligence" or conversational AI
 - Increasing interactions within the EPR is voice driven
 - Increases quality 1:1 doctor/patient engagement
 - Removes clicks and typing no back turned to patient





Introducing Ambient + Generative Al





DAX™ Express



Trained on millions of encounters



Standard format



Integrated with Dragon Medical One



Available in seconds



Scalable

Workflow-integrated, fully automated clinical documentation that delivers a draft patient note for clinician review, editing, and signature.



27-28 July

Peter-Marc Fortune

CCIO and Consultant Paediatric Intensivist Royal Manchester Children's Hospital

Overview



- 10 hospitals
- 2 community care organisations
- Largest provider of specialist services in England
- Leading trust in NW for research & innovation
- 28,000 staff + 8,000 associates
- Pre go-live
 - 3 PAS
 - 3EPRs
 - Multiple LIMS
 - Multiple dictation / VR platforms





A tale of simultaneous go-lives!

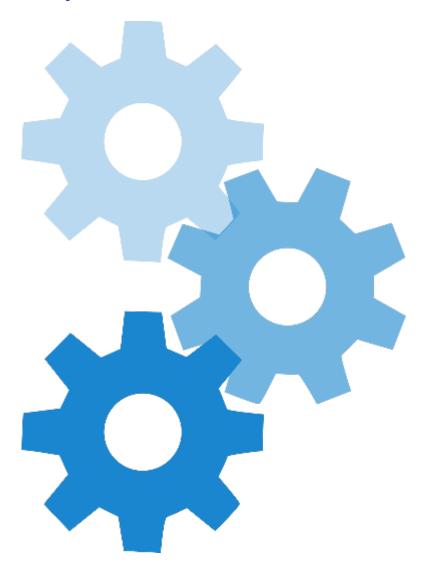


Epic & Nuance



Operational Readiness





- Configuration
 - Harmonisation
- User Provisioning
- Templates
 - Theatre List
 - Outpatient
- Clinical Backload
 - Significant overhead
 - Continues post go-live
- Technical
 - Test, test, test
 - Technical dress rehearsal





User Training – Epic & Nuance

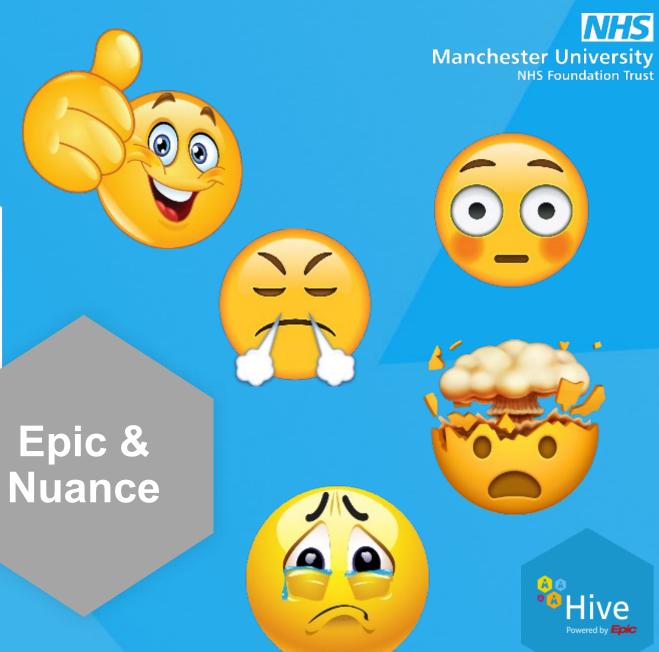




- Face to face
- On-line power points, tip sheets, videos

- Playground environments available
- Advance programme for super-users
- Mixed engagement











Go-live

Challenges





Overview & Summary





- VR was essential at go-live
- Simultaneous launch sub-optimal
- Technical performance/support critical

 Optimisation requires knowledge of both platforms to delivery synergy





27-28 July

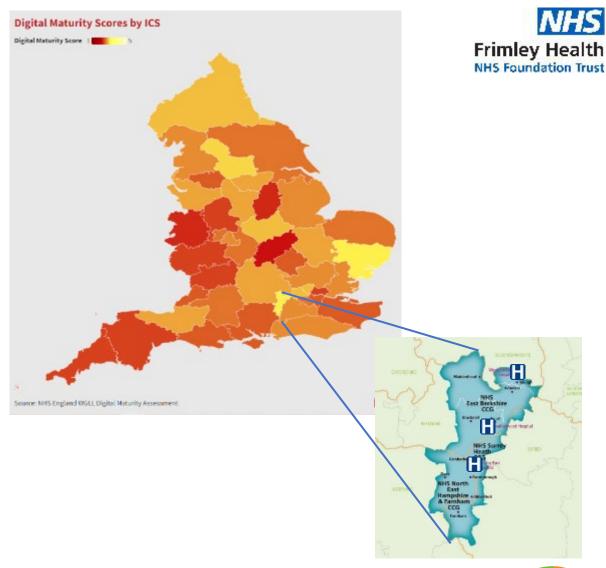
Graham Smith

CCIO and Consultant Orthopaedic Surgeon Frimley Health NHS Foundation Trust



Background

- 800 000 patient population
- Two acute hospitals
- New elective hub
- Epic EPR June 2022

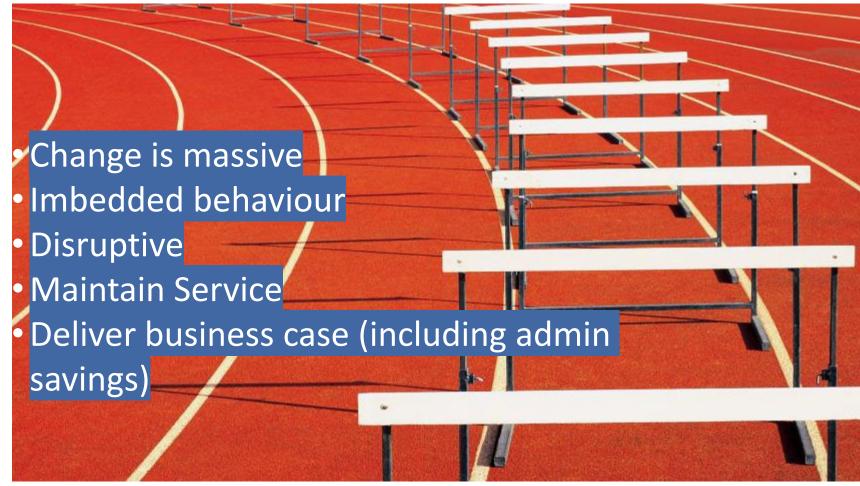








Challenge

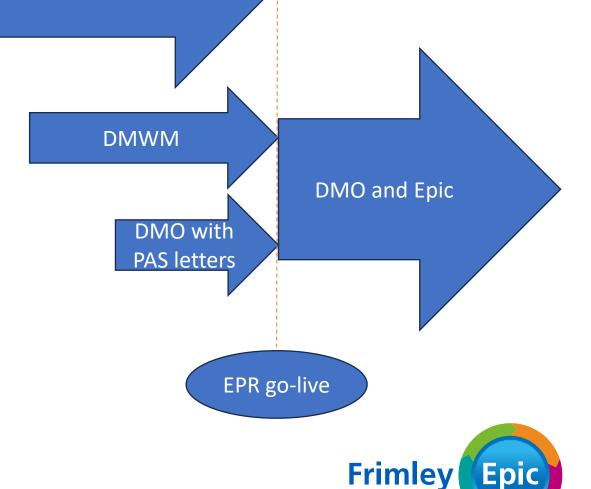






Old systems

- Frimley's strategy = phased approach
 - pre-EPR
 - Reduces go-live impact
 - Early benefits realisation
 - DMO-driven EPR based transcription from go-live
 - Single process
 - Benefits delivery at pace



Frimley Health
NHS Foundation Trust





Outcomes

- 698 active users, 81 000 minutes dictated per month (June 23)
- Savings of £20.7k/month (outsourced transcription)
- Letter turnaround transformed:
 - Ability to send letters to patients and GPs immediately.





27-28 July

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Thank you

Audience Q&A