

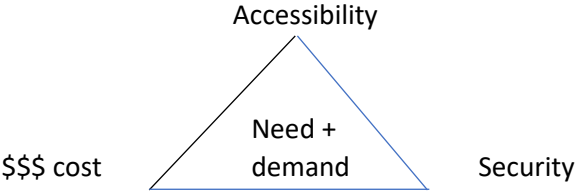
Discussion outputs from DIGITAL HEALTH LEADERSHIP SUMMIT, March 2021

Topic 14: Accessibility vs security of systems: How do we balance the tension in a way that makes sense for clinicians and consumers?

This topic was discussed by groups in Auckland, Wellington and Christchurch.

Auckland delegates' responses

Barriers/challenges	<ul style="list-style-type: none">• Business, multiple systems, lack of education on how to properly use the systems• Skimp on training on IT projects, i.e., RMOS well• Figure it out:<ul style="list-style-type: none">○ Breaches (some inside)○ Need better things than passwords○ Password changes every three months/multiple passwords○ Security becomes a barrier to the job○ High cost – clinicians pay cost to secure systems• Procurement of systems – look for cheapest/compromise security• Multiple systems and lack of interoperability• Consent:<ul style="list-style-type: none">○ How far can the organisation pass the data?○ Informed consent• Consumers – cyber naïve• New systems/applications – need accessibility without too many barriers, i.e., Privacy access assessment and Cloud risk assessment• Challenge creating flow from a browser site to other providers• App can be a barrier, as how to download• Systems must be robust/secure• Currently, patients believe GPs etc. own their data• Patient information access issues – can be too much, timing needs to be right
----------------------------	---

	<ul style="list-style-type: none"> • Ease of access vs. security • Patient portal – no multi-factor authentication • About risk and what is personally acceptable – informed consent key • Accessibility – extra secure but not accessible, i.e., break glass policies – difficult for next of kin to access information • Clinicians – also about protecting them • Portability needed, i.e., patient portal: <ul style="list-style-type: none"> ○ App ○ Browser access • Difficulties with patients interpreting their own notes, being supported to understand them – improve health literacy
<p>Solutions/ideas</p>	<ul style="list-style-type: none"> • Consumers: <ul style="list-style-type: none"> ○ Access via home ○ Multi-factor authentication • Technology won't solve the issue • User centric access – design in the way people work • Think long term, involve iwi • Look globally at developed systems – look outside to other systems, i.e., banks • Banks work – regulated, Privacy Act, law enforcement • Good law enforcement procedures, responsibilities of boards • Consumers should have a choice re access to data and where their health information is used • Consumers need control of their data – permission to share information • Consent from patient re sharing of data at sign-up, i.e., research, services • Achievable, need trust, cost high • Need and demand: <div style="text-align: center; margin-top: 20px;">  <p style="margin: 0;">Accessibility</p> <p style="margin: 0;">\$\$\$ cost Security</p> <p style="margin: 0; text-align: center;">Need + demand</p> </div>

- Ability to change consent
- Patient consent should be required before passing on data
- Educate:
 - as to why security is needed
 - impact if don't share data, i.e., health programmes, vaccination
- Tap on and off and sign on – accessibility for technicians
- Doesn't have to be a tension – remove it – make security that works around people
- Single sign-on
- Roadmap for accessibility without barriers
- Transparency – ability to consumers to access all their information which is held
- Education/selling to patients what the use of your data means for you and your community
- Education around what it can mean for your whānau/community
- Ownership of data and sharing – guidelines would be useful
- Guidelines needed re use of data - to mitigate the grey areas around the use of primary care data, e.g., historic data that sits outside the DHB (PHOs)
- Trusted leaders, e.g., COVID app NZ:
 - information stayed on phone
 - trusted
 - Melbourne app – open all the time
- Accessibility – give patients the choice to share their data with whom they like, easily, i.e., family members
- Patient information needs to be owned by the patient:
 - Can control who sees what information
 - Need transparency (understand who can see their information)
 - Needs to be choice for whānau accessibility
- Guidelines around being able to access data
- Australian health record – opt in /opt out choice
- Log into system lasting long enough to complete work, entering patient data during patient interaction
- Patients having choice and deciding who to share information with
- Assessment case by case – who being used by? Who for?
- Identity management – actively managed and context appropriate

Christchurch delegates' responses

Goals/observations	<ul style="list-style-type: none"> • Common understanding of terms • Clinical need = risk management • Consumer need is information I want in a way I understand • Common understanding of terms • Trust in systems/solutions to be used for main needs • Leverage data to make better solutions • Interoperability -joined up information • Co-design with patient centric approach • Patient and clinician collaboration • Built and information security is addressed • Anonymised and aggregated data to drive outcomes • Access along customer journey – right person, right time, right reason • Less siloed information between operators • Health eco-system accessibility (i.e., NGOs) • Practical realisation of health information platform • Single digital identity
Barriers/challenges	<ul style="list-style-type: none"> • Can we trust the provider accessing the data (scope of practice)? • Can the consumer trust the data security? • Who decides access? • Technical complexity of meeting customised solutions • Difference between what GP writes in notes vs. what they tell them • Encore rates/permissions in systems • Retaining information – to do list (for patients, e.g., intellectual disabilities) • Clinician – early access to complete notes → is it complete? • NEOs – not visible • Consumer access to episode of care

- Accuracy determined by consumer
- Philosophical and cultural problem, not tech problems`
- Consumers vs. junior doctor – why can doctor add notes, but not an informed consumer? (Risk – anyone could add notes to their record)
- Security is easy compared to privacy
- Don't want public seeing private information
- Patient expects that their clinician (or advisor) knows their record and no-one else
- Visibility of “my” data
- Options to modify/inform any profile/data
- Owner vs. custodian vs. security guard
- Uptake and implementation of a common interoperability standard
- “Telling my story over and over and over again”
- Time to access data
- Problem definition – not a natural tension, need trust – not competing
- Trust!
- Time for clinicians
- Data quality
- Consumer driven solutions (apps etc.)
- ICT challenges
- Who pays for innovation/development/support?
- Ethical tension to explore as well
- Physical and information security
- Consumers are using apps in the Cloud – commoditised → outside of Health Information Privacy Code
- Demand for access. Payment to be on secure network MFA
- Data lifecycle – cost of archiving/managing data/storage over time
- Streamlined security – key deliverable accessibility. Timelines give time back to clinicians.
- Who are the customers? They are both clinician and consumer. Need trust
- Common needs – if come from consumer perspective, you miss other aspects
- Ownership of data

	<ul style="list-style-type: none"> • Patch protection by providers • Siloed data • Defining the balance security/human error/accessibility • If we can crack it in the health space (personal), can we solve it elsewhere? • How do you minimise human error? Avoid Excel sheet of my information being emailed • Tension between clinicians, e.g., midwife vs. obstetrician • Scenarios for conflict: Custody battles, mental health, insurer incentives, → manage exceptions • Commercial sensitivity of data • Opt out should be allowed – we make it too difficult • Have we created a tension that doesn't naturally exist? • Why is health so difficult? vs. banking? • Avoid front page of the paper for wrong thing • ICT, including passwords, due to number of systems • Fear of practice • Identities auditing organisations and facilities (clinician) • Additional burden of auditing data • Clinicians moving across roles and facilities • What does "Joe Average" expect? • MoH mandatory standards, e.g., digital identity • Tension between accessibility and security, e.g., more access = less secure and vice versa • Security - treat the data with the respect it deserves • Could my information be used to prejudice me?
Solutions/ideas	<ul style="list-style-type: none"> • Co-design and development • No one size fits all – customised for user needs • Feedback loops to continuous development • Multi-institutional access – circle of care • Education for both clinicians and consumers • Interoperability • Safe identification of consumer

- Common understanding of terms, accessibility vs. security, privacy vs. consent
- New level of mid-tier systems, i.e., not clinical but appointment, continuity of care etc., permissions
- Selling points for consumer – you can hold onto it
- Dynamic situation, important feedback loops to adapt and change to best serve patient
- Recognise importance of non-clinical advisors/navigators, difference between clinical advice and interpreting and actions
- Patient is a source of their complete record
- Educational framework for consumer support
- Granular customised consent matrix
- “Gamify” data process to educate and encourage
- Awareness – what’s in it for me
- Uniform platform for systems use
- Springboard off compelling event (COVID) – don’t go backwards
- A “folder about their disease” (a story example)
- Co-design to help with balance of tension
- Validated identity
- Develop solutions for interoperability
- Clear statement of patient data ownership
- Read only access to data by patient, but add notes available
- Exceptions developed outside norm
- Teach, don’t preach. Need good consent process
- Data as competitive advantage
- Co-design with whole health network
- Outreach – engagement – education
- Leverage identity platform (RealMe)
- Governance framework defined by Ministry
- Ask why not? Start the journey!

Wellington delegates' responses

<p>Barriers/challenges</p>	<ul style="list-style-type: none"> • Managing data – who has access ? • How do we secure data? • How is the data used? • Where does the data flow? • Who owns the data (patient, GP, DHBs)? • nHIP: <ul style="list-style-type: none"> ○ Manager ○ My Health ○ Old fashioned • Wearable health and wellness data intersecting: <ul style="list-style-type: none"> ○ PHI ○ (FHIR) • Slack/Xero/ASB Banking/Tracer App/Cloud tools <ul style="list-style-type: none"> ○ SNOMED – clinical and general/common language ○ Interoperability between systems – tensions sharing records between systems • Balance of governance and accessibility • Mechanisms of consent • Data is not neutral • Marketing vs. consumer led • Development opportunities mindset – ‘not tensions’ • Clinicians’ stewards’ patient data – upskilling • Consumer responsibility • Access control • Wearable vs. DHI • Complexity of consent systems • Inconsistent practices • Maintain trust • Consumer expectations
-----------------------------------	--

	<ul style="list-style-type: none"> • Legacy technology vs. new stuff • Information overload • What does good look like – Slack, Xero, ASB Banking App/COVID Tracer App • How long would data be kept? • Consumer interpretation of clinical data: <ul style="list-style-type: none"> ○ Translation ○ Ongoing education • Does state override consumer data if safety concerns? • Fear of commercialisation of data • Where is the data kept? • Tension with legislation/unions and management and reporting
Solutions/ideas	<ul style="list-style-type: none"> • GP is the primary contact • Security and governance/ethics <ul style="list-style-type: none"> ○ Ability for consumer to make notes to provide updates re wellness ○ Access control – all/portion • Mechanism of consent • Mapping the patient journey • Open up secure data access: <ul style="list-style-type: none"> ○ API ○ Digital identity • Social license – needs to be earned • Education • Co-design • Clinician centred care • Patient centred care • Police/MOJ – checks • Security must be job zero • Synthetic data sets for testing new apps/research • Test data sets • Labs, MVP development

	<ul style="list-style-type: none">• Ask consumers – access and security – trade-offs:<ul style="list-style-type: none">○ Decisions – value○ Benefits• Research in healthcare technology• Relationships – consumer and provider – human interaction ↑ trust• Delegation of access – whanau – audit processes• Considerations of sensitive information• Including chat bots• UX and UI• Ongoing education• Focus on health – accessibility to start• Consumers must have options• Digital health passport• Option to see who accesses My Health data – choice. Only people who are involved in my health centre
--	---