

One Patient,
One Record

Dr Douglas Kingsford CMIO, Interior Health Authority





Dr Douglas Kingsford

- CMIO & Executive Medical Director, Interior Health Authority
- Primary care physician, engineering PhD in Al
- Informatics experience over 20 years
- IMIT Standing Committee, Health Information Standards
 Standing Committee, co-chair Information Privacy and Security
 Standing Committee, Joint Collaborative Committees IMIT
 Clinical Advisory Group, EMR Working Group, Clinical Oversight
 Committee; Canada Health Infoway's Digital Health Alliance
 Steering Committee



Presenter Disclosure

Presenter: Douglas Kingsford

Relationships with commercial interests:

- No current affiliation with any commercial organization.
- Relationships with government organizations as per previous slide.
- Member of Health Data Coalition Technical Advisory Group.
- Created AI search engine for finding the optimal provider for referral, and for optimizing referral form content. Not offered commercially in Canada, and outside scope of this presentation.



Agenda

- Introduction –
 One Record vs One Virtual Record
- 2. Where are we now?
- 3. What's the vision?
- 4. What's the near-term roadmap?
- 5. Conclusions

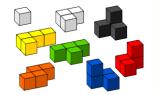


Current Context

- Many siloed systems across the sector.
 Can't see each other's records, even within teams.
- Lots of faxing, phoning, mail, text, email.
- Patients can see little; few virtual interaction options.
- Uncertainty around consent, permission, agreements for data sharing.
- Billing model doesn't well support team-based care, new electronic interactions.



Current Context - Tech



- >95% EMR uptake (but no provincial oversight)
- Large hospital IT system projects underway
- Distribution of lab/DI results, reports (hub-and-spoke)
- 2-way messaging within some vendors, but not between
- Regional patient portals Excelleris, IHA MyHealthPortal, RelayHealth, Telus PHR, KindredPHR, individual EMRs
- Regional provider portals CareConnect, UCI, Excelleris Remote login to hospital systems – Cerner, Meditech
- Meds: PharmaNet (has limitations, not integrated)
- Public Health: Panorama, PARIS, MOIS
- Emerging QI tooling PSP, HDC, Telus



Who is working on this?

Collaboration between many stakeholders:

- Doctors of BC and JCCs led by DTO
- Vendor Community
- Individual Health Authorities
- Ministry of Health
- JCC IMIT Clinical Advisory Working Group
- IMIT Standing Committee
- Information Privacy & Security Standing Committee
- Health Info Standards Standing Committee
- EMR Working Group
- Enterprise Architecture Working Group
- Collaborations with Divisions of Family Practice



First Nations Health Authority

Health through wellness



BRITISH Columbia

Ministry of Health

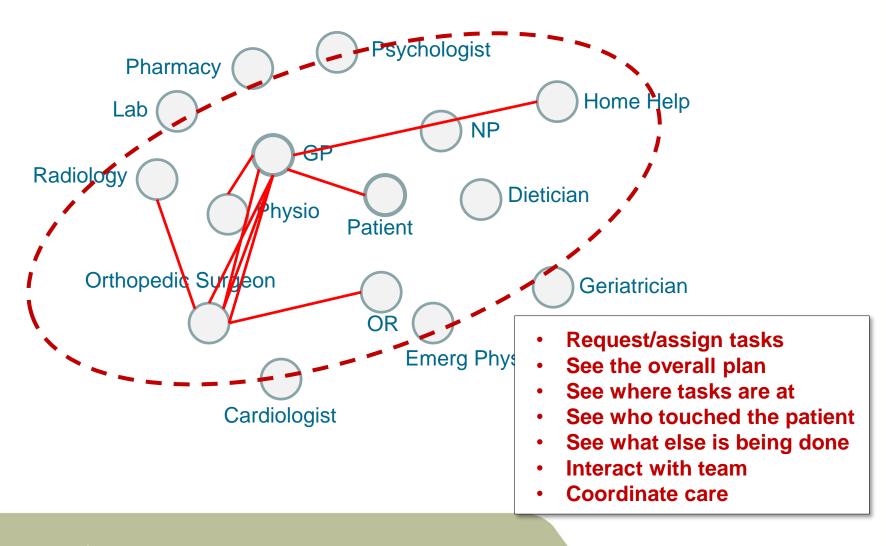
Roadmap

- 1. Longer-term Strategic View
- 2. Short-term Tactical View

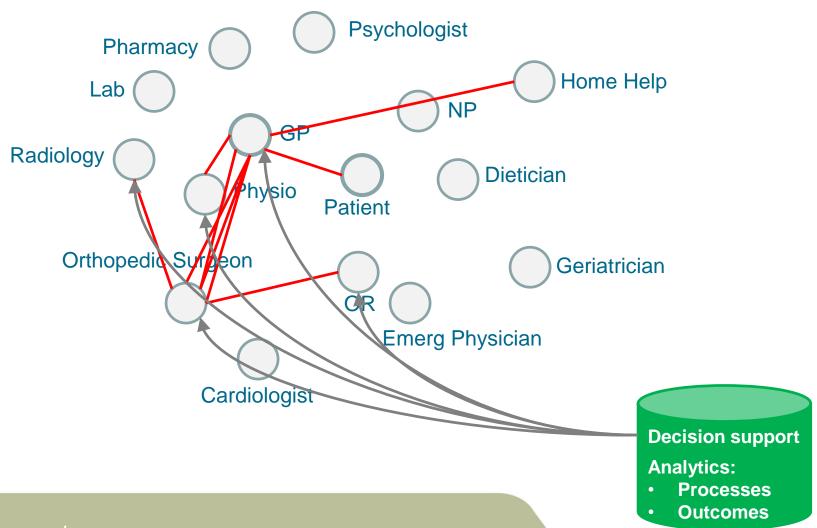




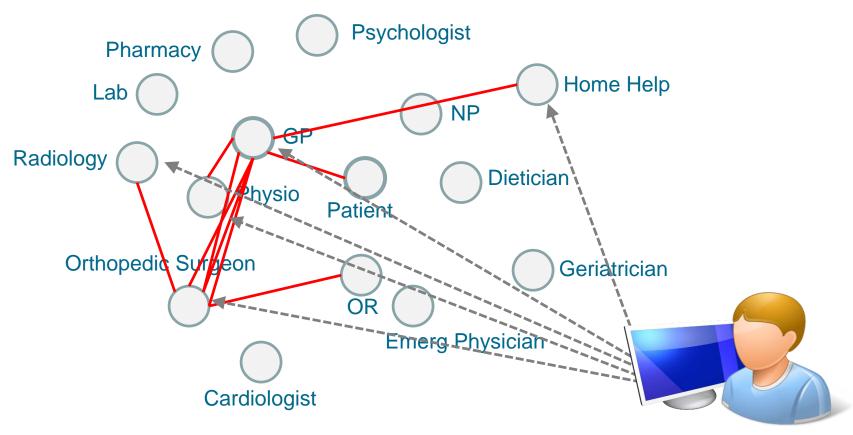
Typical Clinical Scenario



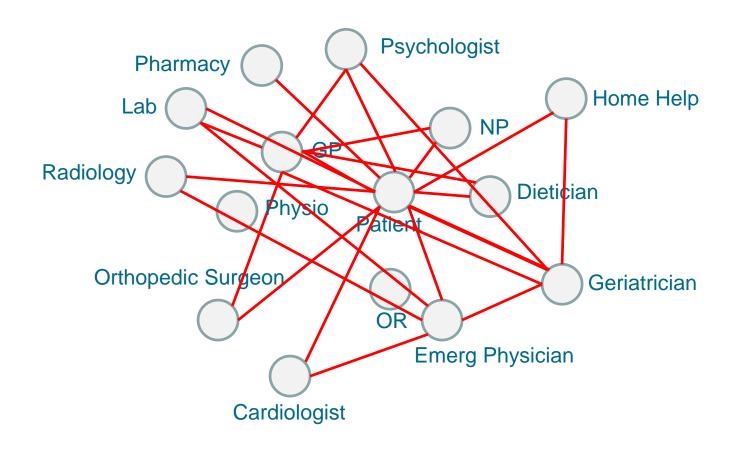
Typical Clinical Scenario



Typical Clinical Scenario

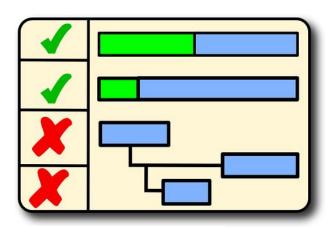


- Reading results, reports
- Tracking progress
- Interacting with team
- Participating in care
- Controlling access



- Differing perspectives, varying processes
- May be more than one process/plan executing
- Multiple systems involved
- Everybody wants to control their own processes, data
- Info needs, processes often vary with local context
- Distrust of central systems controlling data, workflow

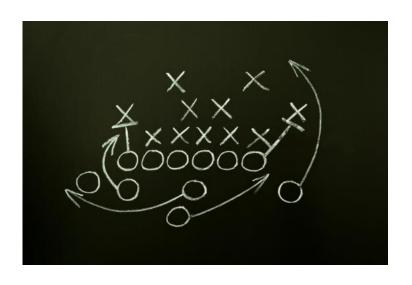








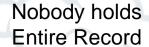
Game plan vs Coaching











Supportive **Payment Model**



Care coordination, workflow













Reporting, Analytics

Identity, Relationships

Role-based **Access Control** Coding

Security, Authentication

Event Notification



Integrated with EMR

Web-based apps, decision support, other systems

Retrieve records. data ("pull")





integration

Bidirectional

Meds. Public Health, Other



BC/national systems

Your EMR: One interface

One virtual record

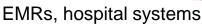
Access info: Interact with care team, EMRs, devices Send/receive docs, info, IM, updates, workflow (messaging, "push")

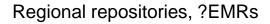




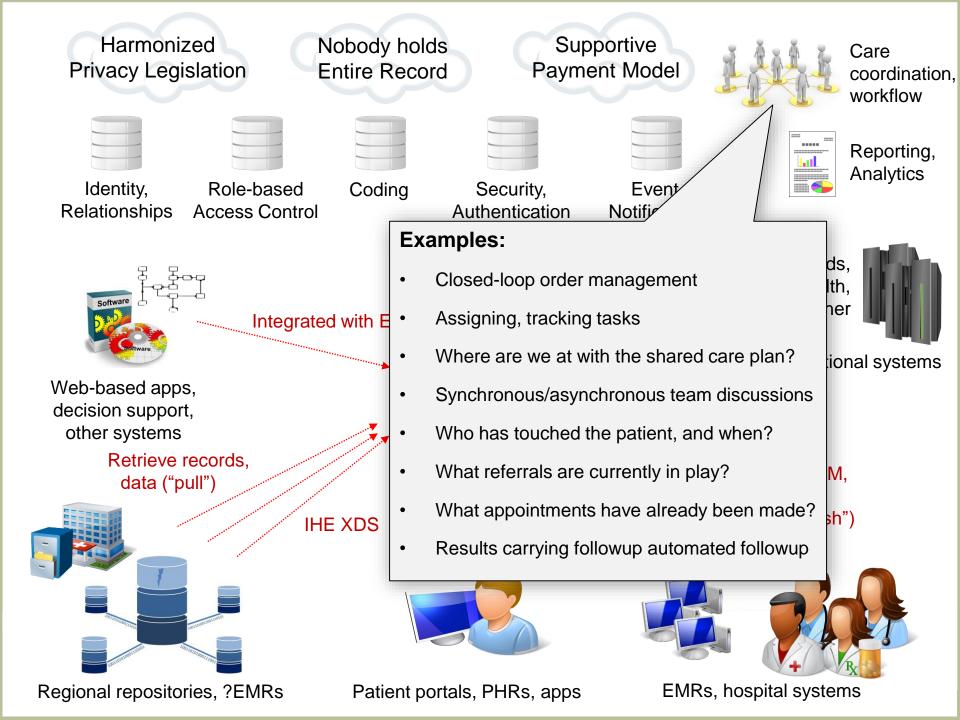


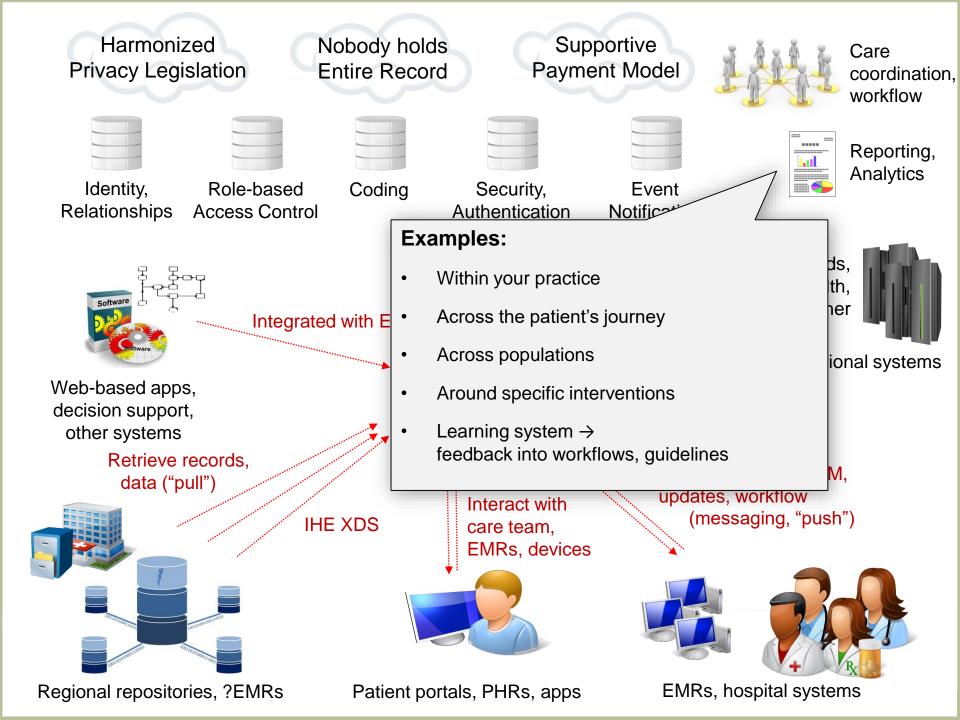
Patient portals, PHRs, apps











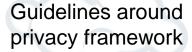
Roadmap

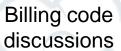
- 1. Longer-term Strategic View
- 2. **Short-term Tactical View**





Focus on Standards







Provincial work on Shared Care Plans; Care coordination using messaging



Identity –
Provider Location
Registry integration



Secure network, Authentication



PharmaNet integration (Meditech, Cerner, CareConnect)



Emerging QI tools from HDC, CPCSSN, Telus; PSP dashboard

IHA/NHA leading interoperability with

CDX

Clinical Data eXchange



- Clinical summaries
- Narrative care plans
- Notifications



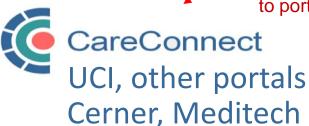
Your EMR: Improved integration

Log into portal/CIS; Launch CareConnect in context from EMR

Some can upload content to portal, CIS

Access info; exploring link to EMRs

Bi-directional cross-vendor messaging: eReferral, eConsult, clinical summaries, shared care plans, reports, notifications, structured data, etc





Patient portals, PHRs





EMRs, hospital systems

Summary

Short-term

Longer-term

- Mainly human-readable data
- 2-way communication
- Transitional use of portals
- eReferral
- eConsult
- Clinical summaries
- Narrative shared care plans

- Distributed data access
 → virtual single record
- Machine-readable data
- Managed workflow
- Seamless ecosystem of EMRs, portals, virtual care
- Embedded decision support
- Advanced analytics



