Fraser Health: Health Information Strategies for Today and Tomorrow



Agenda

- Welcome to Fraser Health
- Empower Patients
- Accelerate Primary and Community Care Innovation
- Transform Clinical and Acute Care Systems
- Advance Innovation and Analytics
- Strengthen our Digital Health Foundation

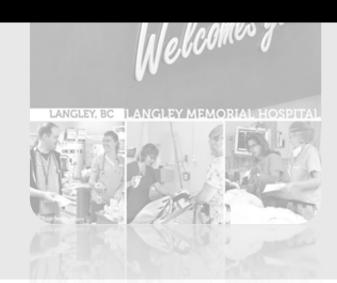






Fraser Health







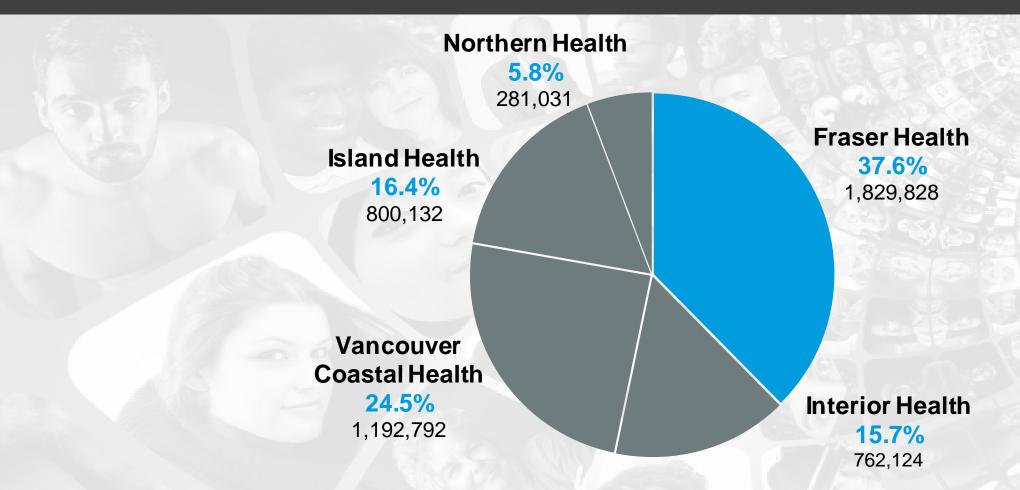
From Burnaby to Hope

- 20 Municipalities
- 32 Indigenous Communities,
 including 5 Métis Chartered Communities
- 12 Acute Hospitals
 and 1 Outpatient Care and Surgical Centre
- © 130+ Communities Sites





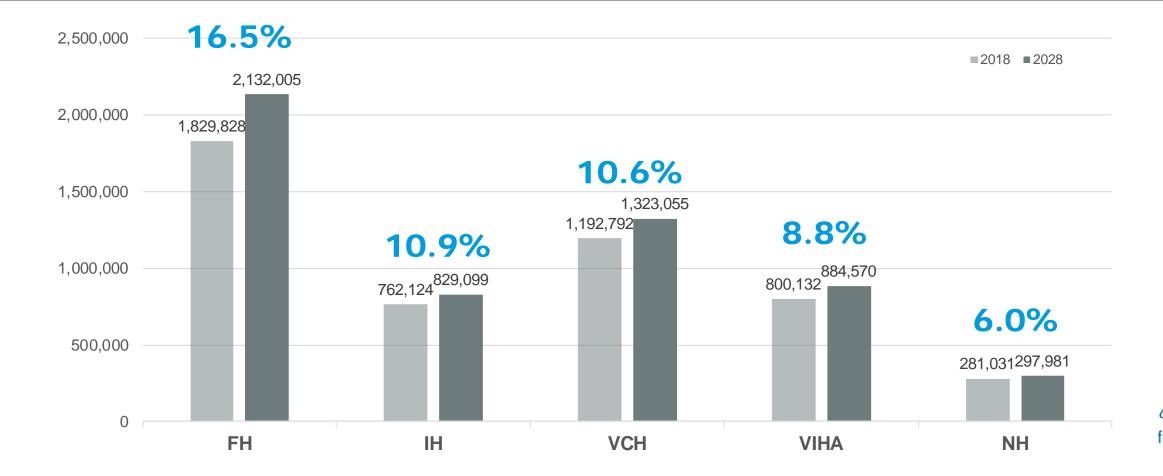
BC Population:By Health Authority, 2018



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BC Population: Projected Growth, 2018-2028







26,000+ Professional Staff

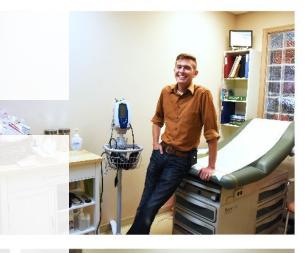




Physicians



Registered Volunteers



4,500+

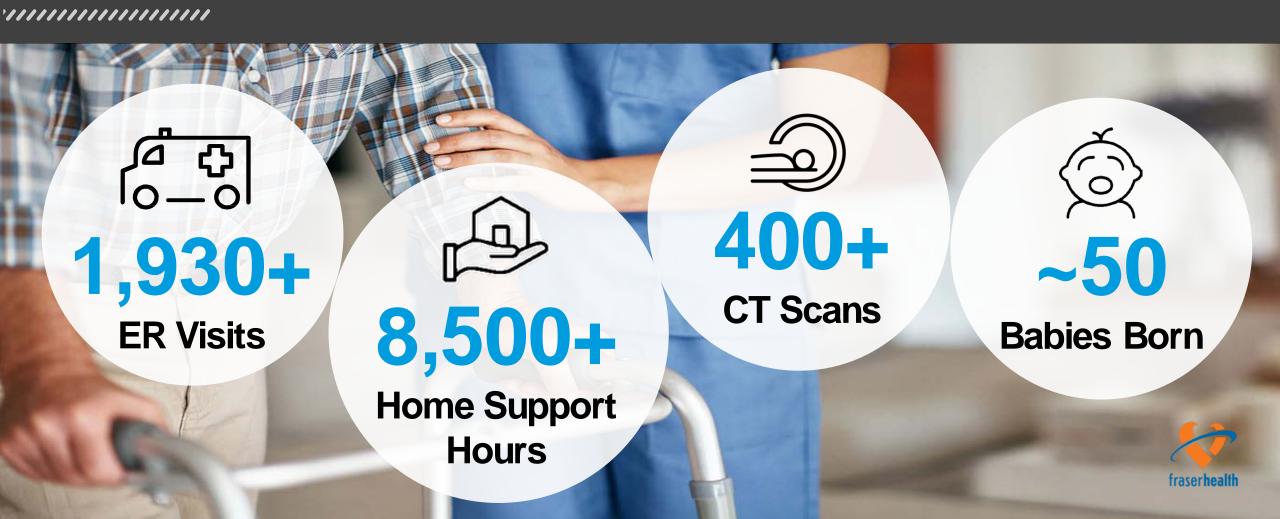


1000's

Vendors & Contractors



Every Day



Our Story



Our Mission

What is Our Purpose

To improve the health of the population and the quality of life of the people we serve.

Our Vision

What We Want to Achieve

Better health.
Best in health care.

Our Values

What Guides Our Behaviour

Respect, caring, and trust characterize our relationships.



Health Informatics Capabilities



Workforce Enablement

Empower a transformed and collaborative workforce through the provision of innovative information management services and technology



Success through Partnerships

Fostering and enhancing progressive partnerships with vendors, service providers, business consumers, and the broader community



Data as Strategic Asset

Data is treated as a strategic asset that has value to Fraser Health



Technology Enabled Performance Management

Transparent, accountable, and informed decision making at the person, population, and organization level



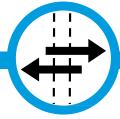
Informed Decision at the Point of Service

Convergence of information, methodology, and technology supporting evidence-informed decisions at the point of service



Patient Centric Information

Single view of a person across the continuum of care



Information without Boundaries

Seamless flow of information across organizational boundaries within the province of British Columbia



Health Care Anywhere

Access to health care information services wherever and whenever it is needed



Our Core Health Information Systems



Acute Care

v5.67

33,000+ users
All FH Acute sites
3M+ persons in MPI

Primary Care

v8.2

630+ users42 clinics36,700+ clients

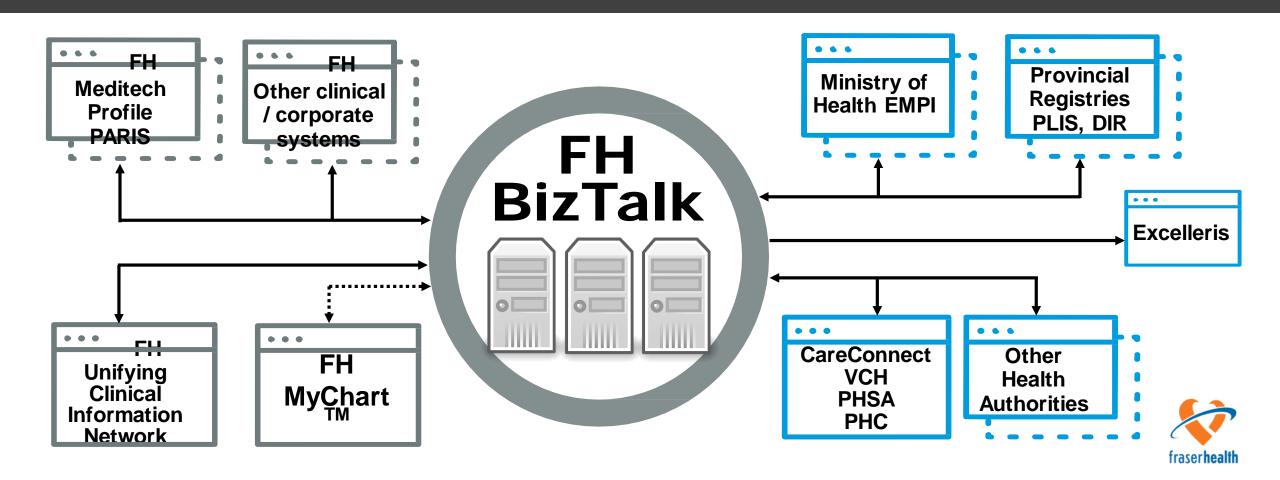
Community

v6.2

3,600+ users 119 offices 263,000+ clients



Health Information Integration & Exchange







Empower Patients







Patient Experience

Dedicated department at Fraser Health

Vision:

 "Leading transformation of practice for remarkable patient and provider experiences."

Outcomes:

- Patients and families involved in healthcare from bedside to boardroom
- Patient will experience high quality care that is centred on them
- Patient and family centred care is integrated throughout the organization
- Providers are engaged and deliver excellent care in a healthy environment

Partnering with Patients

Goals:

- Providing access for patients to their health record
- Ability to self enter personal health information
- Easy access to trusted patient education materials online

Approach:

- Patient Advisory Committee partnership
- Strategic approach developed
- Proof of concept with high interest populations
- Quantitative and qualitative evaluation processes





MyChart™ Personal Health Record



A complete online personal health management and continuity of care record solution

Key features to Enable, Connect, and Inform patients, families, and health care providers from anywhere, anytime



Clinical Information



Record Sharing



Messaging



Health Tracking



Upload Additional Information



24/7 Access Anywhere



MyChart™ Patient Portal Impact

MyChart™ reduces adverse drug events in outpatient settings.

MyChart[™] helps with collaborative symptom tracking between health care providers.

MyChart[™] supports transition and continuity of care.



89%

"MyChart™ helps me self-manage my own or my family member's health condition."

84%

"I am more likely to have a test performed... to have access to results online."

93%

"I would grant temporary access to hospital ER physician to provide information about my health"



Changing Paradigm

- Request for Information
 - Redaction processes currently done manually
- Pediatric population
 - Mature minors
- Changing documentation practices
 - Practices that are inherent in the culture of professions
- Disruption = Innovation









Accelerate Primary and Community Care Innovation



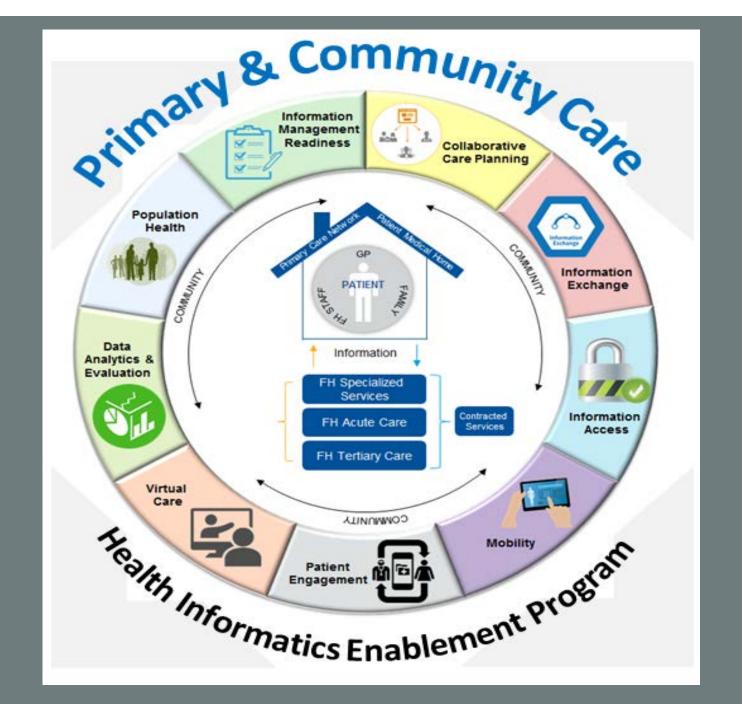




Primary and Community Care Redesign

- Strong partnerships established between Divisions of Family Practice and Fraser Health
- Long standing working group established to foster a strong working relationship between FH IM/IT and the various Divisions of Family Practice operating in the FH region:
 - Identify and prioritize opportunities for improvement where wider collaboration between the Divisions of Family Practice and FH is necessary to support service delivery
 - Collaboratively identify solutions aligned with each organization principles and actively pursue
 - Wider collaboration and communication to support service delivery





Provides an integrative framework with coordinated oversight to many of our current projects

Aimed at **enabling** clinical areas

To advance the Ministry of Health's strategic transformation agenda for **patient-centered** integrated primary & community care







Transform Clinical and Acute Care Systems

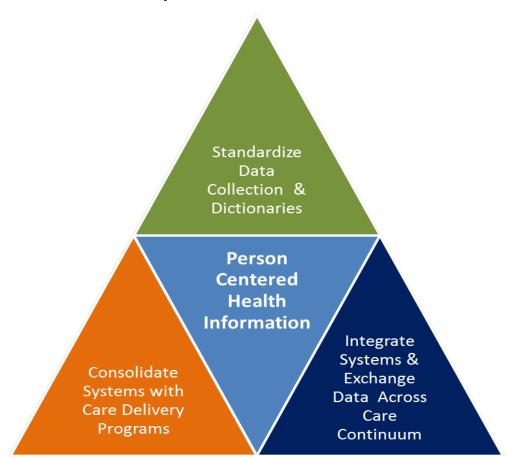






Fraser Health CIS Journey

Long standing goal to create person centered health information





	Fraser North HSDA				Fraser East HSDA				Fraser South HSDA			
Functionality / Site	ВН	RCH	ERH	RMH	CGH	MSA	FCH	MH	LMH	DH	PAH	SMH
eMPI	MEDITECH Magic				MEDITECH C/S			MEDITECH Magic		Eclipsys		
Electronic Medical Record		MEDITE	CH Magic						MEDITECH			
Registraton		MEDITE	CH Magic			MEDITI	ECH C/S		MEDITEC	H Magic	Eclip	osys
Electronic Legal Record (SCA)												
Patient / Clinic Scheduling		M	SM]				MEDITECH			
Emergency Dept. Mngt												
Peri-natal Mngt												
OR Management		M	SM			MEDITI	ECH C/S		MSM		НВОСС	MSM
Anaesthesia Management												
Physician Workload Mngt												
Physician Documentation												
CPOE / POM												
Nursing Documentation												
Allied Health eDocumentation		MEDITE	CH Magic			MEDITI	ECH C/S		MEDITECH			
Patient Order Entry		MEDITE	CH Magic						MEDITEC	H Magic		
Pharmacy		MEDITE	CH Magic			MEDITI	ECH C/S					
Closed Loop Medication Mngt												
Medical Imaging		MEDITE	CH Magic			MEDITI	ECH C/S		MEDITECH		MEDITECH	MRM
PACs / Specialty Modalities		G	SE .			Agfa Tele	Radiology				Agfa mp	
Laboratory		MEDITE	CH Magic			MEDITI	ECH C/S		MEDITEC	CH Magic	Eclipsys	SOFT
Food & Nutrition Mngt		M	SM			M	SM			Sasq	uatch	Eclipsys
Transcription Services		MEDITE	CH Magic			MEDITI	ECH C/S		MEDITECH	MSM	Dictaphone	Dictaphone
Dictation		Dictaphone			Lanier Dictaphone Lanier			Dictaphone				
Dictation Radoliogy	Tapes	Tapes	Dicta	phone		Lanier		Tapes	D	ictaphone	build & voic	e

	Fraser North HSDA					Fraser East HSDA				Fraser South HSDA				
Functionality / Site	ВН	RCH	ERH	RMH	CGH	ARH	FCH	MH	LMH	DH	PAH	SMH	JP	
еМРІ						MED	ITECH C/S	5.65						
Electronic Medical Record						MED	ITECH C/S	5.65						
Registration						MED	ITECH C/S	5.65						
Electronic Legal Record (SCA)		2014				MT 5.66			2014					
Patient / Clinic Scheduling						MED	ITECH C/S	5.65						
Emergency Dept. Mngt						MED	ITECH C/S	5.65						
Peri-natal Surveillance & Mngt		GE surv.				GE surv.						GE	GE surv.	
OR Management						MED	ITECH C/S	5.65						
Anaesthesia Management						GE						GE	GE	
Physician Workload Mngt						MED	ITECH C/S	5.65						
Physician Documentation						MEC	ITECH C/S	5.65						
CPOE / POM														
Nursing Care & Documentation						MED	ITECH C/S	5.65						
Allied Health eDocumentation						MED	ITECH C/S	5.65						
Patient Order Entry						MED	ITECH C/S	5.65						
Pharmacy						MED	ITECH C/S	5.65						
Closed Loop Medication Mngt														
Medical Imaging						MED	ITECH C/S	5.65						
PACs / Specialty Modalities							GE							
Laboratory						MED	ITECH C/S	5.65						
Food & Nutrition Mngt							CBORD							
Transcription Services					mMc	dal Outso	ırce to ME	DITECH C/:	S 5.65					
Dictation							mModal							
Dictation Radiology						Lanier	(speech reco	gnition)						

Clinical and Acute Care Transformation

- Clinician and Professional Practice led program that supports clinical transformation through the:
 - Creation of one accessible, individualized, and integrated plan of care across the care continuum for all professions involved in supporting patients/clients/residents
 - Upgrade of the core acute healthcare information system to the newest version, MEDITECH Expanse, with Advanced Clinical Systems to optimize quality and safety



Integrated Plan of Care

Objectives:

- Creation of a unique person-centered and point of care electronic healthcare information system
- Improving data capture, data quality, and consistency of documentation
- Embedding decision-making support into clinical tools
- Reducing redundant documentation

Enables:

- Transition from paper to electronic charting in Meditech Patient Care System (PCS) module
- Standardized documentations for multiple professions all in one place



June 2018

Facility Spotlight: Royal Columbian Hospital, est 1862

1 of only 2 Level 1 Adult Trauma Hospitals in BC

- ✓ Cardiac Care
- ✓ Neurosurgery
- ✓ High-riskObstetrics
- ✓ Neonatal Intensive Care
- ✓ Acute Mental Health



15,000+ Trauma Cases

940+
Open Heart Surgery

260+
Air Ambulance Flights

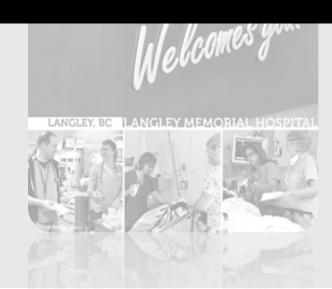






Advance Innovation through Analytics







Becoming an Insight Driven Organization

 Dedicated Integrated Analytics Team supporting operational and performance reporting within Fraser Health

 In 2017, Fraser Health Executive and members of the Leadership Team established a vision for integrated data and analytics with the objective for Fraser Health to become an Insight Driven Organization



Guiding Principles

- 1. Information is managed as a key health sector asset
- 2. Analytics supports strategic and operational needs of Fraser Health
- 3. Information and analytics is governed using clear roles and responsibilities minimizing the spread of accountability
- 4. Information and analytics is made accessible to support internal and external sharing and use
- 5. Single source of truth for data and analytical insights



Integrated Data and Analytics Objectives



Re-align core clinical and business data assets and data analytics resources across FHA that will operate under a new **Target Operating Model**



Establish robust **Enterprise Data Strategy** with foundational data collection, management, access, and use capabilities that will enable consistent and coordinated use of data analytics infrastructure and delivery capabilities



Adopt a coordinated approach to **analytics service delivery** with common standards, robust analytics practices, and a transparent coordination of priorities across business and clinical areas



Establish new **Governance Structure** overseeing data collection, management, access, and use to ensure that the data and analytics investments deliver maximum value for FHA and the community.



Develop and prioritize value-based use cases that support FHA strategic and operational objectives



Refresh and enhance **technology infrastructure** to provide enablement of data warehouse and Meditech data repository applications with additional self service enhancements

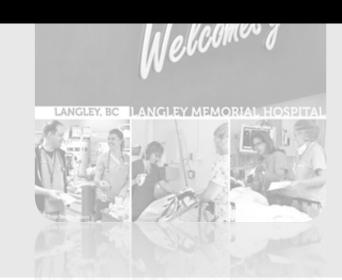






Strengthen our Digital Health Foundation

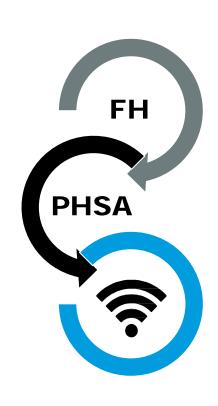






Wi-Fi Enablement across Fraser Health

Guests Acute **Non-Acute** Complete In Progress All acute sites + Planning Campus-wide corporate office by 2018 Voice-grade **2018**: Proof of Concept at 3 sites All FH acute sites **2019-2020**: 65 by 2021 community sites



FH Team

- Define and manage project
- Liaise and consult with business areas
- Engage facilities management

PHSA Tech Services

- Manage network core, edge switches, routers
- Design, survey, deploy, and monitor Wi-Fi



Enterprise Mobility Management

CONTINUING MISSION:

"To achieve successful foundations and platforms that enable widespread and high-value use of modern mobile devices in Fraser Health."

FH Enterprise Mobility Management Ecosystem										
END USERS	APPLICATIONS	DEVICES	CONNECTIVITY	SECURITY	MIDDLEWARE	INFRASTRUCTURE				
FH Staff	Clinical and Business Apps	Smartphones	Corporate Wi-Fi	2-Factor Authentication	Mobile Device Management	Mail Exchange				
FH Physicians	Productivity Apps	Smart Tablets	Access from the Internet	Verified Secure Access	Mobile App Catalogue	Enterprise Systems				
FH Contractors	Network and Collaboration	iOS 📫		AES 256-Bit Encryption						

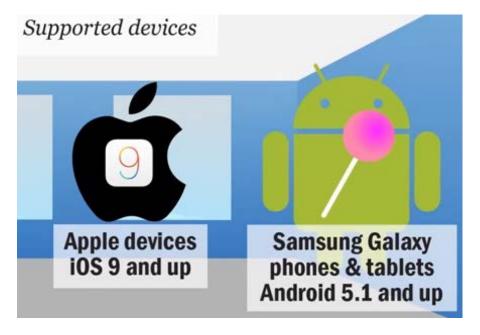
Choose Your Own Device

The establishment of an Enterprise Mobility Management platform allows Fraser Health users to have the option for a Choose Your Own Device

program:

Corporate Devices (Standard)

Personal Devices (BYOD)

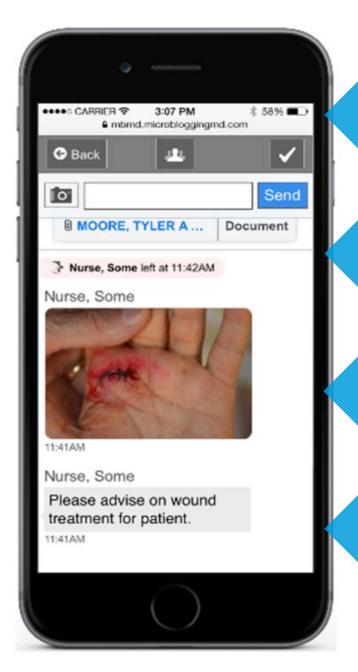




Secure Messaging **Project**

Through MicroBlogging MD





What It Is

Fraser Health's only approved secure text messaging service

Goals

Communicate confidential information easily and securely

Added Value

Enhance timely coordination of care, clinical workflows

Current Status Roll-out in progress





Moving Forward

- Fraser Health is working toward a transformed healthcare delivery system – where patients and families are meaningfully engaged and empowered to manage their care
- Enable clinical areas for patient-centered integrated primary & community care
- Implementation of Advanced Clinical Systems to support the changing health care paradigm
- Continue driving Integrated Analytics strategy and roadmap
- Continue to support integration and interoperability to strengthen our foundation
- Continue to align with the Digital Health Strategy





Thank You

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