

Island Health: Who Are We?

Excellent care for everyone, everywhere, every time.



What is IHealth?



One Person. One Record. One Plan for health and care.

Anticipated Benefits:

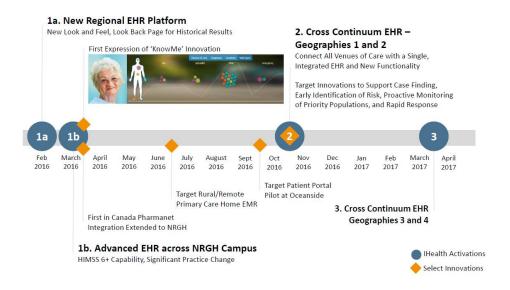
- Evidence and standards are embedded into practice to improve patient quality and safety
- Clear communication over time and space
- Through one platform and patient story, patients and providers collaborate on goals and plans for health and care, which are shared, monitored, and refined over a person's lifetime

Definition of Journey

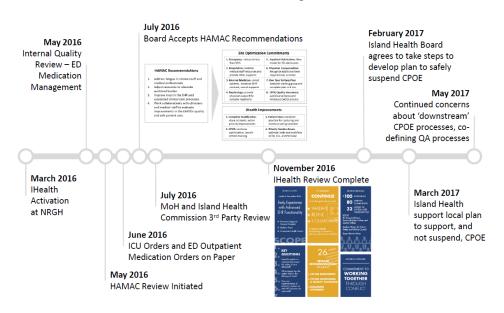
- **1. a.** The act of traveling from one place to another, especially when involving a considerable distance; a trip.
- b. A distance to be traveled or the time required for a trip.
- **2.** A process or course likened to traveling, such as a series of trying experiences; a passage.



Our Planned Journey Schedule



Our Actual Journey Schedule



Reaching the Summit of EHR Benefits Realization



May 2017...

 Embarked on the development of an EHR Adoption and Use (EAU) Model

- Why?
 - To realize the benefits of EHRs, there is a need for a comprehensive framework and model to better understand the variables that contribute to EHR adoption and use



Framework/Model Development

 A literature review of existing technology adoption and use and quality frameworks was conducted from May-June 2017



- Variables/constructs and dimensions from the frameworks were extracted
- Similar constructs and definitions were combined and an overarching framework was developed

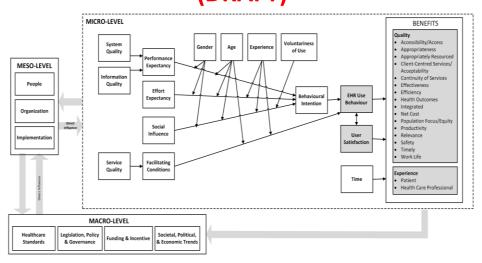


Framework/Model Development (Cont.)

Ten technology adoption and use and quality frameworks were included in the development of the EAU Model:

- 1. Unified Theory of Acceptance and Use of Technology (UTAUT)
- 2. Canada Health Infoway's Benefits Evaluation Framework
- 3. UVic eHealth Observatory's Clinical Adoption Framework
- 4. Island Health's Quality Framework
- 5. BC Health Quality Matrix
- 6. Clinical Systems Transformation Benefits Framework
- Agency for Healthcare Research and Quality (AHRQ) Domains of Health Care Quality
- 8. Health Quality Ontario's Quality Attributes
- 9. Accreditation Canada's Dimensions of Quality Care
- 10. Dr. Morgan Price et al.'s Clinical Adoption Meta-Model

EHR Adoption and Use (EAU) Model (DRAFT)



Randhawa, G.K. & Wright, M. (2017)

EAU Model: A "Map" To Reach the EHR Summit



- EAU model can be used by health care organizations to guide the planning, implementation, and continuous EHR evaluation
- Construct definitions available upon request

EHR Benefits Realized

Quality & Safety

- o 2,000+ patient mismatch alerts
 - Patient chart does not match the patient in front of the nurse at the time of medication administration
- 5,100+ drug-interaction alerts
 - o Over 890 of these resulted in a change in clinical decision
- 8,200+ drug-allergy alerts
 - o Over 2,200 of these resulted in a change in clinical decision
- Elimination of transcription steps in ordering results in faster care
 - Median time from ordering to antibiotic administration reduced by 55 minutes
 - o X-rays taken 102 minutes faster
 - Laboratory test results obtained 112 minutes faster
 - o Time to blood product administration also reduced

EHR Benefits Realized (Cont.)

- Streamlined Infection Control
- Sepsis Alerts
- Issues of Legibility
- Interdisciplinary Plan of Care
- Communicating with Community Physicians





