Doctors, Data and Decisions

COACH Clinician Forum

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EMR Implementation

- Accomplished in Ontario for Primary Care
- Significant uptake in Specialist market
- Moving from basic to enhanced use
- EMR as tool for improved care and opportunity to contribute to system improvements

OntarioMD's EMR Maturity Model

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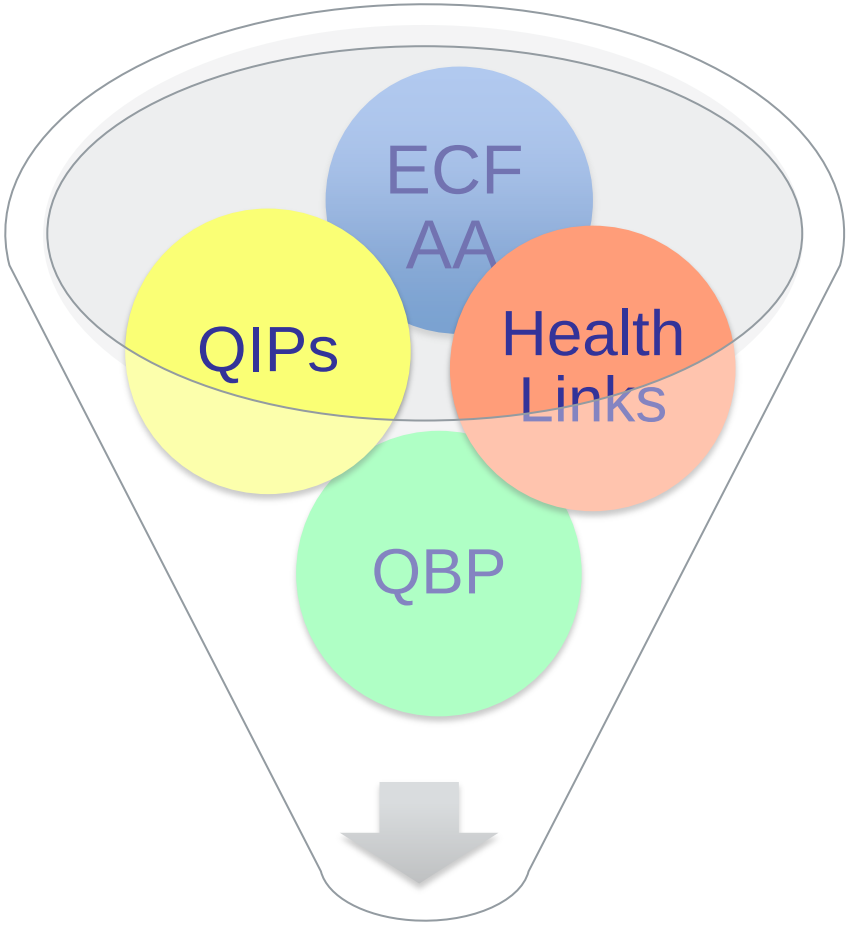
Supporting Physician Participation



Innovations in Care / Showing Value

OMA Leadership in eHealth

Bringing Data analytics to the Community Physician

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i4C

INSIGHTS4CARE

Better Information.
Improved Care.

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Vision: The vision for the i4C program lies in facilitating **optimal use of EMR data** by physicians and the broader health care system for **improving direct patient care**. This vision will be enabled through a **suite of technology-based services** designed in the best interest of patients, physicians and other health care providers **and will inspire meaningful use of EMRs**.

i4C Six Objectives

1. Leverage the OMA's unique role to represent and serve physicians and advocate for the health of all Ontarians
2. Provide physicians with important clinical and individual patient insights from their EMR data
3. Design a 'one-stop' technical solution
4. Facilitate sharing of de-identified data into a larger aggregated data set
5. Deliver direct value to physicians
6. Articulate specific roles for OntarioMD and the OMA

Why OMA?

Clear policy, governance and guidelines are critical to any future use of health care data. The OMA is bringing the physician voice to the table.

OMA SGFP

OMA Medical Assembly

Canadian Institute for Health Information
Institut canadien d'information sur la santé

OMSA

ICES Data Discovery Better Health

ONTARIO HOSPITAL ASSOCIATION

afhto association of family health teams of ontario
60 St. Clair Avenue East, Suite 800, Toronto ON M4T 1N5

UTOPIAN UNIVERSITY OF TORONTO PRACTICE-BASED RESEARCH NETWORK

Stakeholders who have provided Letters of Support and Endorsement

Canada Health Infoway
Inforoute Santé du Canada

Ontario Health Quality Ontario

ASSOCIATION MÉDICALE CANADIENNE
CANADIAN MEDICAL ASSOCIATION

Ontario College of Family Physicians

CMPA THE CANADIAN MEDICAL PROTECTIVE ASSOCIATION

CPCSSN RCSSSP

Timing is everything…

Physician Leadership roles

- Governance space and policy creation
- Sustainability and health system spend conversations
- Patient advocacy and privacy
- Putting evidence to practice

All of the above incorporate use of EMR data by clinicians and the rules of engagement to ensure it is done well.

Physicians views on data use

- http://youtu.be/YOTvh01HMZc

Clinical decision support tools

- Computerized Provider Order Entry (CPOE)
- “Smart forms” in the EMR
- Rules based decision trees (i.e.: drug interactions checkers)
- EMR reminders and alerts

Current CDS pros/cons

TOOL	BENEFITS	LIMITATIONS
CPOE	• Guide informed testing and Rx • Many exist (COTS) • Commercial so network for changes and dissemination • Proven to change behavior if consistently used • Well studied	• Poorly integrated • Do not use patient data • Drive action not knowledge • No predictive capacity
SMART FORMS	• Work well with defined actions (as CPOE) • Popups to embed evidence • Can be created locally • Malleable • Can be written by regular users	• Easily over ridden • Usually not commercial • Specific to each EMR • Hard to disseminate • No responsibility for upkeep

Current CDS pros/cons

TOOL	BENEFITS	LIMITATIONS
RULES BASED	• use data in real time • Data not re-entered • Can guide more complex decision making • Can be mixed and overlapped • Predictive capability	• Immature • Medico legal considerations if used or avoided • Clinician trust • Little reliability /validity testing
ALERTS / REMINDERS	• Built into many EMRs • Flexible • Part of current workflow • Used for individuals and populations	• For individuals, must be in record at the time • For populations not run routinely • No predictive capability

A new paradigm

- Data use outside of the EMR structure
- Use of both structured and unstructured data
- Natural Language Processing understands
- Predictive analytics
- Ability to centralize
- Ability to personalize
- Adaptive learning systems now possible

Real-time clinical insights

Representing the physician's perspective in the health policy debate

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Better Information.
Improved Care.

Consolidate multiple sources of medical info

Reduce physician's administrative burden

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THE PROBLEM

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THE SOLUTION

i4C SERVICES CONCEPTUAL MODEL

i4c Prequalified Vendors

- IBM
- Intersystems
- Deloitte/SAP/PHEMI
- Alere Analytics/Dapasoft/Microsoft
- Thoughtwire
- HQIC
- Informatica
- Advanced Software Concepts
- McKesson
- TimeAccount
- Privacy Analytics Inc

Thank you!

Questions?

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