Using "form to letter" functionality to improve clinical care and capture quality metrics for continuous improvement

Ilana Halperin MD MSc FRCPC Sunnybrook Health Sciences Centre



### **Presenter Disclosure**

 Faculty / Speaker's Name: Ilana Halperin MD -Assistant Professor, Clinician in Quality and Innovation, Department of Medicine, University of Toronto, OntarioMD Peer Leader, QHR Peer Leader

Relationships with commercial interests:
 – Speakers Bureau/Honoraria: QHR Technologies Inc.



## **Disclosure of Commercial Support**

 This program has not received any financial or in-kind support from commercial entities

Potential for conflict(s) of interest:
 – None



# **Mitigating Potential Bias**

 Accuro<sup>®</sup> EMR user - Working to build my knowledge of similar functionality in other EMRs to build on the work I am doing with QHR



# Objectives

- Review the role of the EMR in enabling point of care data collection
- Discuss the challenges of using EMR data for quality improvement
- Discuss the potential impact on future design for EMRs



## EMR: Meaningful Use

Meaningful use is using certified electronic health record (EHR) technology to:

- Improve quality, safety, efficiency, and reduce health disparities.
- Engage patients and family.
- Improve care coordination, and population and public health.
- Maintain privacy and security of patient health information.



## Sources of Data in the EMR

- Entered by clinician
- Flows into EMR



# **Clinician Entered Data**

- Real time
- Free text, unstructured, non-standardized
- Rapid data entry

- Templates, stamps, forms

Not good for large scale queries analytics or reporting



## Data Flows into EMR

- Consults notes
- Labs
  - Inconsistent naming of labs tests
  - Requirement for linking
- Hospital reports (diagnostic imagining, discharge summaries)
- Scanned documents



### Aggregated Data Can Flow Out of EMR

- Extracted, cleaned, standardized
- Not real time
- Requires extra resources
- Can then provide feedback on provider and system level performance for quality indicators.





Network: UTOPIAN Clinic ID: 34

### CPCSSN FEEDBACK REPORT: SENTINEL 00168

Data Up To: June 30, 2015

Indicators of Patients (%) \*





# Key Point-Turning Data into Information

### The biggest value of the EMR is not in the data you enter But the information you can retrieve from that data to help improve patient care

Jessica Widdifield, PhD



Tension Between Quality and Efficiency

- Quality indicators require standardized data to analyze
- Standardized data entry
  - clunky
  - time consuming
  - decrease efficiency
- Standardized tools vary across vendor



# What if more granular data could be used for QI within the EMR without compromising efficiency???

Point of care standardized data entry from patients and providers

Output a completed clinical note or consult letter Data continually added to a warehouse on the EMR server where reports can be run in real time



### A Case

- 28 F referred for new diagnosis of Type 2 DM discovered in the context of an infertility work up
- PMHx: PCOS, HTN and obesity
- Meds: Janumet and Ramipril



## QHR Accuro<sup>®</sup> Form to Letter Solution

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	Result	Sep 17, 2016			Lifestyle	
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	MICROALB/CREAT.	10			Family History	
	HDL	3.5 0.8			Type 2 diabetes [mother and fath	er]
	Triglycerides	1.5			Pregnancy History	
	Eye exam	2.0 July 2016			None Recorded	
	Glycemic target Pregnancy counselling	<7%			Cardiovascular Risk Factors	
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	Foot exam	Work with SUNDEC. try to loose 5-10 lbs prior to co	nception.		Diabetes Complications	
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					None Recorded	



### A Case

- 65 y.o F with Rheumatoid Arthritis
- Prednisone on and off for last 2 years
- BMD ordered by rheumatologist but requested that family MD follow up to determine need for osteoporosis therapy



## Telus PS Encounter Assistance Solution





# EA or FTL tools

### PROS

- Efficient clinical notes
- Standardized data entry
- Decision support built in
- Customizable
- All tick boxes traceable for data aggregation

### CONS

- Take time (and money) to build
- Decision support can become outdated
- Customizable



U of T Endocrinology - Diabetes Balanced Scorecard

- 5 ambulatory diabetes programs
- Inter-professional modified Delphi panel
- 35 performance indicators across 6 domains of quality (safe, effective, efficient, timely, equitable, patient-centred)
- Designed FTL tool to capture the clinician entered data needed for indicators



### **New Data Solutions**

- Query function with Accuro not robust enough
- Working with the QHR data development team on a new solution
- Data warehouse on the server
- User friendly tool for data analytics and ad hoc reporting



### **Future State** standardized data entry Efficiency tools Capture quality Quality Improvement indicators in real time Patient Centredness Performance feedback



## Implications for the Future

- Design data capture tools that enable efficiency and clinical flow
- Build in reminders / decision support into the standardized tools
- Vendors and OntarioMD Practice Advisors need to work with front line clinicians to balance the tension between standardization and customization of EMR data fields.



## Questions??? ilana.halperin@sunnybrook.ca



The views expressed in this publication are the views of OntarioMD and do not necessarily reflect those of the Province.

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	E	xercise prescription	✓ 30 min of moderate activity 3 times/ week.
		Other counselling	
	F	follow up	✓ Follow up in 6 weeks.
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G		t: 416.480.6100 www.sunnybrook.ca	
			es
\$		Canadian Diabetes Association's Driving Guidelines For Driving a Private (non-commercial) Vehicle	
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**		Hypoglycemia (low blood glucose) can affect driving. To ensure safety when driving and to avoid injury to yourself and others it is necessary to:	cations 🖸 😭 😽
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		2. Check that your blood glucose meter is measuring accurately (see pg.2).	al Capsule []
	ů.	<ol> <li>Take an active role in getting up to date information about avoiding, recognizing and properly treating hypoglycemia (see pg.2).</li> </ol>	00 MG TABLET []
		4. You must always measure your blood glucose level immediately before driving and at least every 4 hrs during long drives. If you do not have signs or symptoms of low blood glucose (that is, you have hypoglycemic unawareness) you need to test your blood glucose every 2 hours when driving.	ug Allergies
		5. You must not drive if your blood glucose level is less than 4.0 mmol/L.	<b>v</b>
		6. If your blood glucose level is less than 4.0 mmol/L treat it by taking carbohydrate	one]
-		wait a minimum of 45 to 60 minutes before driving. Recheck your blood glucose after 45 to 60 minutes and do not drive until it is over 5 5 mmol/	tatus [waiting for her prince to
••• • •	Tracking 🗳	<ol> <li>If your blood glucose is in the 4.0 to 5.0 mmol/L range before driving you should have a snack containing carbohydrate prior to driving.</li> </ol>	
⊠ 2 8= c	(0) Labs	8. Always keep a source of sugar to treat hypoglycemia within easy reach when	er [stepmother]
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### Ilana J. Halperin MD MSc FRCPC DIVISION OF ENDOCRINOLOGY & METABOLISM

2075 Bayview Avenue, Suite H1 21 Toronto, ON Canada M4N 3M5 T: 416.480.6056 F: 416.480.5122 ilana.halperin@sunnybrook.ca www.sunnybrook.ca

Sep 11, 2016

Dear Dr. Gregory House,

Re:	White, Snow
	21 Dwarves Cottage Way
	Neverland, ON S1S 1S1
	Home: (123) 456-7891, Cell: (000) 000-0000
DOB:	Aug 08, 1988
HC:	0000 000 00000
MRN:	123456

Thank for referring Snow White for a diabetes consultation. Endocrine Diagnoses: PCOS

Type 2 diabetes

#### PMHX:

Appendectomy Hypertension Acid reflux

#### Active Medications

Ramipril 5 mg Oral Capsule, JANUMET 50-1000 MG TABLET

### Known Allergies:

No Known Drug Allergies

### Family History:

depression (Cousin) bipolar disorder - stepmother Acne (Brother)

### Lifestyle Notes:

Non-smoker Alcohol use - none Relationship status - waiting for her prince to come

### Glycemic Control:

Current issues: Diabetes discovered 3 months ago in infertility clinic. A1C 8.5% Lifestyle management: Not exercising She is working with the SUNDEC diabetes education team. Current diabetes pharmacologic management: Janumet 50/1000 BID She is not doing regular blood glucose self-monitoring. She is not experiencing any hypoglycemia.

### Complication Monitoring:

Eye examination: Aug 2016. She has no symptoms of peripheral neuropathy. She has no chest pain. She has no shortness of breath.

### Physical examination

Blood pressure: 111/70 Heart rate: 90 bpm Weight: 125 kg Thyroid had normal size and texture. There was no cervical lymphadenopathy. Chest was clear. Abdominal examination was unremarkable. Peripheral pulses were palpable. Monofilament sensation was normal.

### Investigations

A1c: 7.5 % (Sep 11, 2016) Previous: () Albumin-creatinine ratio: 4.5 (Sep 11, 2016) Creatinine: 65 umol/L eGFR: 90 (Sep 11, 2016) Total chol: 4.5 mmol/L TG: 1.2 mmol/L LDL: 3.5 mmol/L HDL: 0.8 mmol/L (Sep 11, 2016) TSH: 2.5 Sep 11, 2016

### Impression and plan

**Glycemic Control:** Her glycemic control target is an A1c of <7% given desire to conceive. Her glycemic control is above our target. Will need to stop januvia and start insulin. Suggest Levemir 10 units QHS. Will work with RN to titrate to target fasting <6.0 and 2hr PC <7.5

**Complication Monitoring:** Retinopathy screening is up-to-date. Nephropathy: : Mild microalbuminuria. Suggested she remain on ACE-I until conception then will have to switch to safer med for pregnancy. There is no neuropathy. There is no evidence of macrovascular disease.

**Risk Factor Modification:** Her blood pressure is below the target of 130/80. Her LDL is above the target of 2.0 mmol/L. Lipids: Will not start statin as she is planning pregnancy.

**Other recommendations:** We reviewed hypoglycemia avoidance while driving: specifically that blood sugar should be above 5 mmol/L to drive, and a fast-acting carbohydrate source and glucose meter should be kept in the car. I counselled her on the importance of achieving excellent glycemic control prior to becoming pregnant because of the risk of fetal anomalies in the first trimester and potential worsening of microvascular complications during pregnancy. We set a new self-management goal: she will work with RD and aim for a 5-10 lb weight loss before pregnancy. 30 min of moderate activity 3 times/ week . I recommend that she receive the influenza vaccine.

Follow up: She will return for follow-up in 6 weeks.

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