

Managing Patient Roster Accuracy in Electronic Medical Records to Improve Care

Presenters:

Marjan Moeinedin, BHS. MSc.

Quality Improvement Decision Support Specialist

North York Family Health Team

Abel Gebreyesus, BA, MHI

Quality Improvement Decision Support Specialist

Queen Square Family Health Team

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Presenter Disclosure

Presenters: Marjan Moeinedin and Abel Gebreyesus

Relationships with Commercial Interests:

➤ We have no actual or potential conflict of interest in relation to this work.

Affiliation / Financial Interest:

➤ We have not received any financial support from any organization with respect to this work.



Objectives

- Outline the benefits of having accurate data on patient roster status
- Discuss the patient roster clean up process and improvement within two Family Health Teams (North York and Queen Square)



Background

- Electronic Medical Records (EMRs) are valuable for improving quality of health care services
 - EMR data integrity is key to trusting the information needed to make informed decisions
 - EMR data quality may not be optimal

Opportunity for Improvement:

- We don't know if roster status is accurate in our EMRs. "Is this patient rostered?"
- We don't know if all eligible patients were offered the option to roster.



Definition

Patient Rostering:

A formal patient **registration** with a family physician or team establishing a dual **relationship** that facilitates:

- continuity of care from patients
- accountability from physicians/team

Source: Collage of Family Medicine of Canada (2012). Best Advice: Patient Rostering in Family Practice. Retrieved from http://www.cfpc.ca/best advice patient rostering family practice/



Improving EMR Roster Accuracy at QSFHT & NYFHT

In order to support a robust roster system, we first focus on improving roster accuracy in EMRs:

- 1) Roster eligible patients; **EMR** roster status must match roster status in **Ministry** records
- De-Roster patients that are deceased & inactive



Why should We Support Roster Management?

Better Access

• Define panel size

- Timely access to appointments
- Access to all care providers in the enrolling group
- Access to comprehensive range of services
- After hour clinics and advisory phone services

Better Care

• Physician/team patient relationship

- Patient adherence to care
- Chronic disease management
- Clinical outcomes
- Information sharing and access to information needed for referrals

Improved FHT Accountability

- Performance indicator for the FHT
- Engage physicians





A Physician Experience!

"We need to **know who our patients are**. ...how many of them have diabetes, what proportion of children are obese, If we don't know **which patients are rostered**, ...we **can't** accurately monitor and **manage the quality of care** we provide.

Knowing who our patients are is **fundamental to providing better care.**"

Dr. Michelle Greiver, Family Physician North York Family Health Team





PDSA - Framework





Do



Study



ACT

What is going on?

- Define the problem
- Understand the system
- Set objective
- Plan to carryout (Who, what, where, when)
- Plan for data collection

How can it be done?

- Execute the plan
- Document observations and processes
- Analyze the data

What to expect?

- Complete the analysis
- Examine the results

What changes are to be made?

- Reflect on plan and outcomes (adopt, reject or modify)
- Communicate the results
- Plan for next cycle







Stage 1: Plan



Objective:

- NYFHT: Reduce patient roster discrepancies between EMR and Ministry roster lists to 5% or less by end of August 2015
- QSFHT: Decrease the gap between EMR patient rostered and Ministry lists by 3-5% (annually) towards 0% gap (clean rostered list) and maintain it

Prediction:

The discrepancies in NYFHT patient rostering is maintained or reduced to 5% or less in 2015

Assemble a team:

Select team members

Who/What/Where/When:

- Who: Physicians/Leaders/Admin Assistants/clerks/ QUDSS/
- What: update the patient roster lists for individual FHT physicians
- Where: North York FHT / Queen Square FHT
- When: April August 2015

Measures:

- Total rostered Patients in EMR
- Current performance
- % of discrepancies corrected
- # of roster invitation letters sent

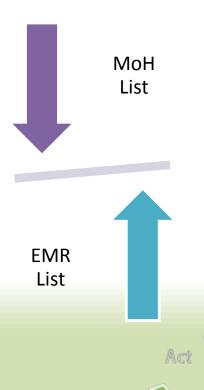




Stage 2: Do Process Implementation

Step 1: (Data Manager/QIDSS)

- ✓ Receive the list from the Ministry
- ✓ Query patient list from EMR
- ✓ Develop a formula to compare the two lists
- ✓ Create a list per physician
- ✓ Obtain physician's confirmation
- √ share with Admin/Clerk staff





Stage 2: Process Implementation (cont'd)

Step 2: (Admin/Clerk)

 Compare the Ministry roster list to the EMR list and update the EMR by rostering/ de-rostering accordingly

De-roster deceased; **inactivate** patients not rostered and **not seen** for 3 years

- Give their list of unrostered Active patients to physicians. Ask them to select patients for roster invitation mailing and return the list
- Mail roster invitation



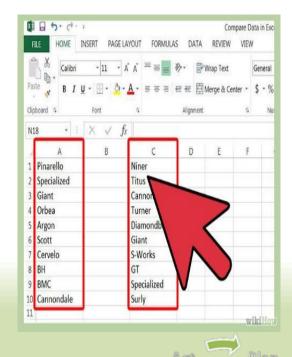




Stage 3: Study Analyze the Results & Summarize

Step 3: (Data Manager/QIDSS)

- Analyze the results
 - Was there an improvement in patient rostering?
 - What were the lessons learned?
 - Any unintended consequences?









Stage 3: NYFHT Roster Comparison 2011-2015

Year	Total Rostered Patients in EMR	# of Updated Discrepancies	% of Updated Discrepancies	Invitation Letters Mailed
2011	58,933	7,767	13%	-
2012	62,850	3,398	5%	1,758
2013	64,733	2,398	4%	1,173
2014	66,200	3,864	6%	1,789
2015	66,085	2,837	4%	1,293

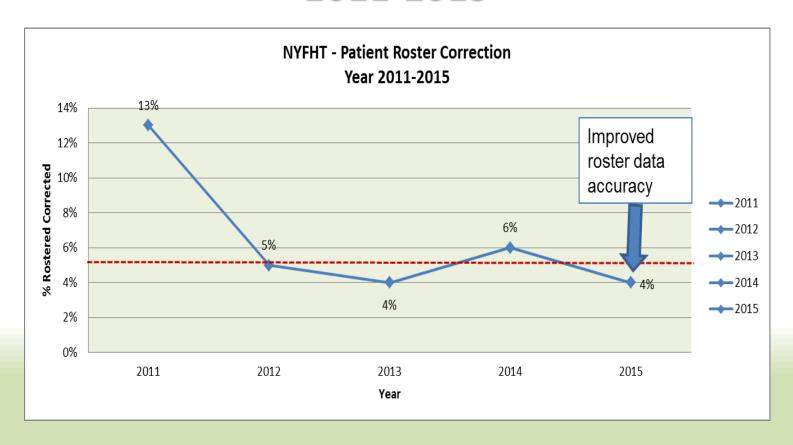








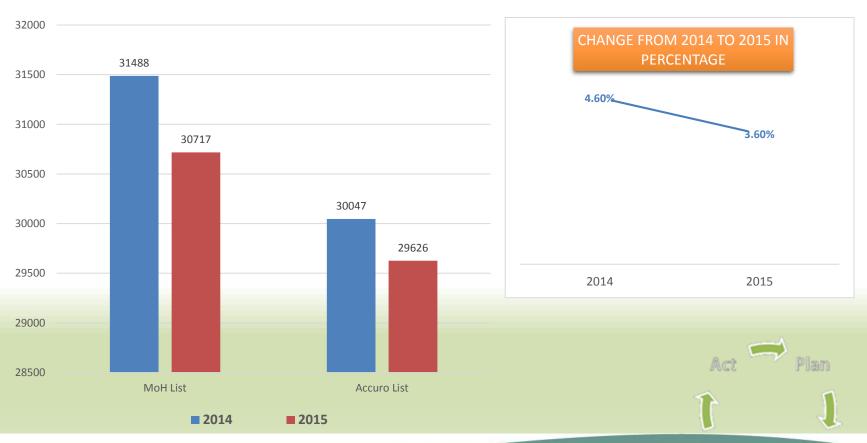
Stage 3: NYFHT Comparison Run Chart 2011-2015







Stage 3: QSFHT Year to Year Comparison





Stage 3: Lessons Learned

Challenges:

- > Obtain physicians' agreement to participate
- > Ensure the report forwarded by the Ministry is accurate!
- > Be aware of data discrepancies:
 - ✓ Ministry data:
 - Different rostering physician than in the EMR
 - Different date of birth than in the EMR
 - EMR data:
 - Missing health card numbers









Stage 4: Act

Reflect & Celebrate Improvements

- Reflected on our plan and outcomes
 - Standardized the successful processes
 - Modified the areas that further development was needed
- Communicated the results and celebrated the success with the physicians/team
- Plan for another cycle
 - ➤ Will repeat the cycle in April 2016











Acknowledgment

The success of the project was due to the valuable work of the following team members:

- Physician Leader/Champion
- Data Manager
- Office Managers/ Admin Staff
- Summer Students/Data Clerks
- FHT Physicians
- FHT Leadership





Reference Manual

Patient Enrolment/Consent Process Manual:

http://www.health.gov.on.ca/english/providers/pub/primarycar
e/proces enrolment/proces enrolment.pdf



Family Health Team



Thank you!

