Optimizing Cancer Screening using your EMR

A Case Study using OSCAR EMR

Urslin Fevrier-Thomas
Presenter Disclosures

• Presenter:
  • Urslin Fevrier-Thomas

• Relationship with Commercial Interests:
  • NONE

• Disclosure of Commercial Support:
  • NONE

• Mitigating Potential Bias:
  • The content of this presentation has been reviewed by a family physician to ensure that it remains unbiased and has no commercial representation
Learning Objectives and Agenda

Objectives:
- To optimize OSCAR EMR for proper documentation
- To identify patients due for cancer screening
  - Breast
  - Cervical
  - Colorectal

Agenda:
- Getting Started
- Data Standardization and Documentation
- Reporting
- Screening Activity Report (SAR)
- Getting More Involved
- Summary
About this Presentation

Cancer Screening Recommendations

• Provincial Cancer Screening Guidelines
• Primary Care
• OSCAR EMR
• Breast, Cervical, Colorectal cancers
Getting Started

Early detection and treatment

• Education
• Screening
• Accurate and Timely information

Information Technology

• Enables proactive Primary Care
Getting Started

• Why is this important?
• Up-to-date OSCAR EMR
• Access to
  • Demographic Report Tool
  • Ontario Prevention Report
• Contact your OSCAR Service Provider (OSP)

DATA STANDARDS
- Data entered into consistent fields
- Consistent terminology used
- Adopted by everyone using the EMR

Enables the creation of meaningful reports
About Cancer in Ontario

- 1 in 2 people will get cancer in their lifetime
  - 1 in 4 will die from cancer
- Lung cancer - most common cause of cancer-related death
- Breast cancer - most commonly diagnosed cancer in women
- Colorectal cancer - ranks #2 in incidence in men
- Up to 80,000 abnormal PAP tests require assessment each year
- Almost 15,000 patients in Ontario have a positive FOBT but no record of a colonoscopy
- Almost 3,000 patients with early treatable (colorectal) disease requiring follow-up
Data Standardization & Documentation
Using the Preventions Module

Any clinical recommendations yet to be completed will be flagged in red.
Provincial Cancer Screening Guidelines:
- MAM & FOBT every 2 years
- PAP every 3 years
- Colonoscopy every 10 years

Section 1: Prevention
Section 2: Results
Section 3: Comments
Section 4: Set Next date
## Data Standardization & Documentation
### Using the Preventions Module

**TEST, PATIENT F 61 years [B]**

**Immunization Schedules - Public Health Agency of Canad**

**Prevention Recommendations**
- FOBT is overdue for this patient
- No PAP records can be found for this patient
- Last Mammogram was done 4 month(s) ago
- Need to ask about Smoking

**Legend:**
- [ ] Completed or Normal
- [ ] Refused
- [ ] Ineligible
- [ ] Pending
- [ ] Abnor

### Legend Colors:
- Abnormal
- Ineligible
- Pending
- Other
- Refused
- Normal

<table>
<thead>
<tr>
<th>Test</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Td</td>
<td></td>
</tr>
<tr>
<td>Flu</td>
<td></td>
</tr>
<tr>
<td>PAP</td>
<td></td>
</tr>
<tr>
<td>MAM</td>
<td>61 years: Date: 2018-01-01</td>
</tr>
</tbody>
</table>
Data Standardization & Documentation
Breast Cancer Screening

Mammogram
- MAM - Preventions Module

Breast MRI
- Breast MRI - Preventions Module

History of Double Mastectomy
- MAM - Preventions Module - Ineligible
- Medical History – eChart
- Tickler – set reminder for next screening

History of Breast Cancer
- MAM - Preventions Module - Ineligible
- Disease registry - 174
- Tickler – set reminder for next screening
Data Standardization & Documentation

Breast Cancer Screening

High-Risk Criteria
- Carrier or First-Degree Relative of a Deleterious Gene Mutation Carrier
- Determined to be at >25% Lifetime Risk of Breast Cancer
- Received chest radiation before the age 30
- Part of the OBSP high risk program

Abnormal Findings
- MAM - Preventions Module

Exclusions
- MAM - Preventions Module

Remember to add the details in the Comments section
Data Standardization & Documentation

Cervical Cancer Screening

PAP
- PAP - Preventions Module

HPV
- HPV Swab - Preventions Module
- Medical History – eChart
- Tickler – set reminder for next screening

Colposcopy
- PAP - Preventions Module
- Tickler – set reminder for next screening

History of Cervical Cancer
- PAP - Preventions Module - Ineligible
- Disease registry - 180
- Tickler – set reminder for next screening
Data Standardization & Documentation

Cervical Cancer Screening

High-Risk Criteria
- History of dysplasia
- Immunodeficiency
- Cervical Cancer
- HPV positive

Abnormal Findings
- PAP - Preventions Module

Exclusions
- PAP - Preventions Module

Remember to add the details in the Comments section
Data Standardization & Documentation

Colorectal Cancer Screening

FOBT
• FOBT - Preventions Module

Colonoscopy
• COLONOSCOPY - Preventions Module

History of Colorectal Cancer
• FOBT - Preventions Module - Ineligible
• Disease registry - 153
• Tickler – set reminder for next screening
Data Standardization & Documentation

Colorectal Cancer Screening

High-Risk Criteria
• First-degree relative with history of Colorectal Cancer
• Inflammatory Bowel Disease
• Familial Polyposis
• Current or previous abnormal results (e.g. tubular adenoma, dysplastic polyp)

Abnormal Findings
• COLONOSCOPY - Preventions Module

Exclusions
• COLONOSCOPY - Preventions Module

Remember to add the details in the Comments section
Data Standardization & Documentation

Using the Tickler Module
Data Standardization & Documentation

Using the Tickler Module
Reporting

Ontario Prevention Report

- Track Prevention Progress
- Calculate Prevention Bonus

Create Templates (Patient sets)
- each physician
- each type of screening
Reporting

Demographic Report Tool
Reporting

Demographic Report Tool

- MRP1 Breast
- MRP1 Cervix
- MRP1 Colon
- MRP1 MAM
- MRP1 PAP
- MRP1 FOBT
Reporting
Ontario Prevention Report

Schedule Caseload Resources Search Report Billing In

**REPORT LIST**

1. EDB List 05
2. Active Patient List
3. Day Sheet
   - *All appointments*
   - Non Rostered Only
   - *Print Day Sheet for only new appointments*
   - *Lab Day Sheet*
   - *Billing Day Sheet*
4. Tabular-style Daysheet
5. Bad Appt Sheet
6. Patient Chart List
7. Old Patient List
8. No Show Appointment List
9. Consultation Report
10. Laboratory Requisition Report
11. Demographic Report Tool
12. Demographic Set Edit
13. **Ontario Prevention Report**
14. Demographic Study List
15. Chronic Disease Management

**Prevention Reporting**

- **Patient Set:** MRP1 Breast
- **Prevention Query:** Mammogram
- **As of:** 2018-03-31

Submit Query
Reporting
Ontario Prevention Report

<table>
<thead>
<tr>
<th>DemoNo</th>
<th>DOB</th>
<th>Age as of 2018</th>
<th>Sex</th>
<th>Lastname</th>
<th>Firstname</th>
<th>HIN</th>
<th>Phone</th>
<th>Address</th>
<th>Next Appt.</th>
<th>Status</th>
<th>Bonus Since</th>
<th>Last Procedure Date</th>
<th>Last Procedure</th>
<th>Next Contact Method</th>
<th>Contact</th>
<th>Roster</th>
<th>Physician</th>
<th>Bill</th>
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<td>2018-01-01-00-00</td>
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<tr>
<td>1085</td>
<td>1953-11-07</td>
<td>66 years</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>2019-01-01-00-00</td>
<td>2018-01-01-00-00</td>
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<td></td>
<td>John Smith</td>
<td></td>
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<tr>
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<td>1957-06-15</td>
<td>60 years</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>2018-01-01-00-00</td>
<td>2019-01-01-00-00</td>
<td>2018-01-01-00-00</td>
<td></td>
<td></td>
<td>John Smith</td>
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<td>2019-01-01-00-00</td>
<td>2018-01-01-00-00</td>
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<td></td>
<td>John Smith</td>
<td></td>
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<tr>
<td>5000</td>
<td>1963-01-15</td>
<td>55 years</td>
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<td>2018-01-01-00-00</td>
<td></td>
<td></td>
<td>John Smith</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Up to Date**: Green
- **No Prevention information available**: Pink
- **Ineligible**: Grey
- **Pending**: Purple
- **Overdue**: Red
- **Refused**: Orange
- **Recently Due**: Yellow

Total patients: 6
Ineligible: 1
Up to Date: 2 = 40%
Reporting

Ontario Prevention Report

Sort by **Status**

- List patients in various categories (e.g. those who are overdue)

**NOTE:**

- **Due** - will not account for manual input using the **Set Next Date** in the Preventions module
# Screening Activity Report (SAR)

Screening Activity Report (SAR) as of 31-Dec-2016

**Dashboard**

<table>
<thead>
<tr>
<th>Physician Level Summary</th>
<th>Breast Screening</th>
<th>Cervical Screening</th>
<th>Colorectal Screening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total eligible individuals</td>
<td>265</td>
<td>598</td>
<td>137</td>
</tr>
<tr>
<td>Total excluded individuals (due to previous cancer, surgery, or OBSP high risk)</td>
<td>13</td>
<td>53</td>
<td>2</td>
</tr>
<tr>
<td><strong>Action required</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abnormal screen, follow-up needed</td>
<td>114</td>
<td>201</td>
<td>149</td>
</tr>
<tr>
<td>Invalid result, repeat required</td>
<td>0</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>Overdue for screening</td>
<td>114</td>
<td>195</td>
<td>145</td>
</tr>
<tr>
<td><strong>Due for screening ≤ 6 months</strong></td>
<td>48</td>
<td>45</td>
<td>20</td>
</tr>
<tr>
<td><strong>Physician review required</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colonoscopy in the last 10 years or Flexible Sigmoidoscopy in the last 5 years</td>
<td>NA</td>
<td>NA</td>
<td>141</td>
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<tr>
<td>Review patient history</td>
<td>5</td>
<td>45</td>
<td>0</td>
</tr>
<tr>
<td>Abnormal screen, follow-up underway or completed</td>
<td>8</td>
<td>5</td>
<td>5</td>
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<tr>
<td><strong>No screening action required: normal screen</strong></td>
<td>90</td>
<td>292</td>
<td>82</td>
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</tbody>
</table>

**Note:** Data is reported as of the cut-off date. Recent screening and assessment activities may not be included due to data lag.
SAR – Common Uses

• Bring your EMR up to date
• Keep your EMR up to date by sorting monthly for recent screens
• Find patients who have screened positive and have had no follow-up
• Update screening data for new patients
• Not using EMR? The SAR can be used for point of care for screening.
• Audit practice to find & contact overdue patients ("triple reds")
• Calculate your preventive care bonus
# SAR – Screening Summary

Enrolled Patients Screening Summary as of 31-Dec-2017

**Physician:** DOCTOR SAR  
**CPNO:** 000000

<table>
<thead>
<tr>
<th>Surname 1</th>
<th>Given Name 1</th>
<th>HIN: 1000</th>
<th>Date of Birth</th>
<th>Age</th>
<th>Sex</th>
<th>Breast Eligible</th>
<th>Status</th>
<th>Cervical Eligible</th>
<th>Status</th>
<th>Colorectal Eligible</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>Y</td>
<td>Normal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surname 2</td>
<td>Given Name 2</td>
<td>HIN: 1001</td>
<td></td>
<td></td>
<td>F</td>
<td>Y</td>
<td>Action</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surname 3</td>
<td>Given Name 3</td>
<td>HIN: 1002</td>
<td></td>
<td></td>
<td>M</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surname 4</td>
<td>Given Name 4</td>
<td>HIN: 1003</td>
<td></td>
<td></td>
<td>F</td>
<td>N</td>
<td>Normal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surname 5</td>
<td>Given Name 5</td>
<td>HIN: 1004</td>
<td></td>
<td></td>
<td>M</td>
<td>N</td>
<td>Action</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>F</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surname 6</td>
<td>Given Name 6</td>
<td>HIN: 1005</td>
<td></td>
<td></td>
<td>M</td>
<td>N</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Surname 7</td>
<td>Given Name 7</td>
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<td></td>
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<td>M</td>
<td>N</td>
<td>Review</td>
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<td>Surname 8</td>
<td>Given Name 8</td>
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<td>M</td>
<td>N</td>
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</table>

Breast: Enrolled Patients 50-74

As of 31-Dec-2017

**Physician:** DOCTOR SAR  
**CPNO:** 000000

<table>
<thead>
<tr>
<th>Surname 1</th>
<th>Given Name 1</th>
<th>HIN: 40001</th>
<th>Age</th>
<th>Status</th>
<th>Breast Cancer (Date)</th>
<th>Mammography (Date)</th>
<th>Date</th>
<th>Result</th>
<th>Screening Recall (Date)</th>
<th>Date</th>
<th>Result</th>
<th>Most Recent Abnormal Mammogram (OBSP)</th>
<th>Most Recent Follow-up/Diagnostic Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>40001</td>
<td>40</td>
<td>Overdue</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surname 2</td>
<td>Given Name 2</td>
<td>HIN: 40002</td>
<td></td>
<td>Overdue</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surname 3</td>
<td>Given Name 3</td>
<td>HIN: 40003</td>
<td></td>
<td>Overdue</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Surname 4</td>
<td>Given Name 4</td>
<td>HIN: 40004</td>
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<td>Overdue</td>
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<td></td>
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</tr>
<tr>
<td>Surname 5</td>
<td>Given Name 5</td>
<td>HIN: 40005</td>
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<td>Overdue</td>
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</tr>
</tbody>
</table>
SAR – Screening Summary
SAR – Know the Colours

GREEN
NO ACTION REQUIRED

YELLOW
REVIEW REQUIRED

RED
ACTION REQUIRED

Screening Activity Report (SAR) as of 31-Dec-20

Dashboard

<table>
<thead>
<tr>
<th>Physician caseload summary</th>
<th>Hospital</th>
<th>Provincial</th>
<th>National</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total eligible individuals</td>
<td>125</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>Total excluded individuals (due to previous cancer, surgery, or 100% high risk)</td>
<td>19</td>
<td>19</td>
<td>2</td>
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<tr>
<td>Surveillance</td>
<td>114</td>
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<td>114</td>
</tr>
<tr>
<td>Clinical review (planned)</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Surveillance (unplanned)</td>
<td>113</td>
<td>113</td>
<td>113</td>
</tr>
<tr>
<td>Total active</td>
<td>228</td>
<td>228</td>
<td>228</td>
</tr>
<tr>
<td>Surveillance - 6 months</td>
<td>48</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>Physician caseload summary</td>
<td>125</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>Surveillance (planned)</td>
<td>114</td>
<td>114</td>
<td>114</td>
</tr>
<tr>
<td>Surveillance (unplanned)</td>
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<td>113</td>
<td>113</td>
</tr>
<tr>
<td>Total active</td>
<td>228</td>
<td>228</td>
<td>228</td>
</tr>
</tbody>
</table>

Note: Data is reported as of the cut-off date. Recent screening and assessment activities may not be included due to data lag.
SAR – Triple Reds
Filtering in Excel

<table>
<thead>
<tr>
<th>Action required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abnormal screen, follow-up needed</td>
</tr>
<tr>
<td>Invalid result, retest required</td>
</tr>
<tr>
<td>Overdue for screening</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Patient Information</th>
<th>Screening Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surname</strong></td>
<td><strong>Given Name</strong></td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Surname 14</td>
<td>Given Name 14</td>
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<tr>
<td>Surname 15</td>
<td>Given Name 15</td>
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<tr>
<td>Surname 20</td>
<td>Given Name 20</td>
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<td>Surname 316</td>
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<tr>
<td>Surname 326</td>
<td>Given Name 326</td>
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</table>
SAR – No Follow-Up

Screening Activity Report (SAR) as of 30-Nov-2013

Physician: HG-308 HS-22
CPSC: 79082
LHIN: North Simcoe Muskoka

<table>
<thead>
<tr>
<th>Physician Level Summary</th>
<th>Breast Screening</th>
<th>Cervical Screening</th>
<th>Colposcopic Screening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total eligible individuals</td>
<td>13</td>
<td>14</td>
<td>23</td>
</tr>
<tr>
<td>Total screened individuals (due to previous cancer, surgery or OSFP High risk)</td>
<td>8</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Action required</td>
<td>4</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Abnormal screen, follow-up needed</td>
<td>2</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Cervical rescreen, rescreen required</td>
<td>N/A</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Overdue for screening</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Age for screening 6 months</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Physician review required</td>
<td>4</td>
<td>5</td>
<td>7</td>
</tr>
</tbody>
</table>

Screening Activity Comparison

| Action required | 4 | 6 | 12 |
| Abnormal screen, follow-up needed | 2 | 3 | 3 |
| Cervical rescreen, rescreen required | N/A | N/A | 3 |
| Overdue for screening | 2 | 2 | 2 |

Note: Data is reported as of the scroll date. Recent screening and assessment activities may not be included due to delay.
SAR vs EMR

- Patients’ Roster Status
- PAP results done elsewhere
- Misplaced results - *may have not come to your office, forgot to input into EMR, etc.*
- Provincial & Regional comparative data

- BREAST - Double mastectomies, cancer history (date delay), results for non-OBSP screens
- CERVICAL – Sexual activity status, some hysterectomies, colposcopy pap results
- COLORECTAL – Colonoscopy results, colectomies, family history, high risk status
- Identification of Palliative patients
- Identification of patients who have declined screening
- Exclusions and high risk information
SAR - FAQ

• Where does the information come from?
  • Patients’ enrolment status; Cancer Care Ontario’s organized screening programs (OBSP, OCSP, CCC); OHIP billing codes; Ontario Cancer Registry

• Can I change a status, or remove a patient from my SAR?
  • It is not possible for a physician to manually change a status in the SAR. The status will only change when new information is received (i.e. OHIP codes)

• How can I track my non-rostered patients’ results?
  • OBSP: contact your local OBSP site; OCSP: Cytobase; CCC: no database (SAR is an available tool to track these patients)

• Will the SAR show me screens that I didn’t do myself?
  • Yes! If a patient has an OBSP mammogram, an out-patient pap test, a CCC FOBT or colonoscopy, screens will be populated in your SAR (i.e. female students who go away for post-secondary education and have a pap test, the result will be appear in your SAR).
Getting More Involved

Unattached Follow-up

• **Sign-up to take on unattached patients**
  – Requiring follow-up after an abnormal FOBT result
  – At high risk for colorectal cancer requiring a colonoscopy

• **CCO’s Contact Centre**
  – Patient Registration Form / Patient Attachment
  – Appropriate provider by geography

• **Selected Providers**
  – Obligation to complete follow-up
  – Can be removed from the Contact Centre list at any time
Getting More Involved

Physician-Linked Correspondence

• PEM physician name included in screening letters sent by CCO to rostered patients
  – Motivate patients to get screened
  – Colorectal cancer screening

• Complete Physician-Linked Correspondence Consent form
  – CCO Website
  – Fax, email, mail
Summary

Preventions

• Abnormal findings
• High Risk Patients
  o PAP - dysplasia/colposcopy, HIV positive, HPV positive, cervical cancer
  o COLONOSCOPY - positive family history of colorectal cancer, current or previous abnormal results (e.g. tubular adenoma, dysplastic polyp)
  o MAM - BRACA, chest radiation, >25% lifetime risk, OBSP high risk program

• Exclusions
  o PAP - total hysterectomy, not sexually active
  o FOBT - Positive family history, requires colonoscopy, colectomy, colon cancer
  o MAM - prophylactic double mastectomy, breast cancer

• Set Next Date manual input
  o Repeat screening
  o Outside normal guidelines
Summary

Provincial Cancer Screening Guidelines
- MAM & FOBT every 2 years
- PAP every 3 years
- Colonoscopy every 10 years

Registry
- Breast, colorectal or cervical cancer
- Exclude them from screening

Ticklers
- Set reminders

Medical History (eChart)
- High-risk
- History of cancer
- Other
**Summary**

**OSCAR Service Provider (OSP)**
- HPV Swab
- Breast MRI

**Bonus calculations**
- Ontario Prevention Report
- Roster list - keep updated
- Exclude in Preventions if needed

**Screening Activity Report (SAR)**
- Help keep your EMR up-to-date

**Unattached Follow-up**
- Abnormal FOBT- unattached patients

**Physician-Linked Correspondence**
- Encourage screening in patients