Promoting Cancer Genomics Best Practices through Surveillance, Education and Policy Change in the State of Michigan

CDC Reverse Site Visit
May 11-12, 2010

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Michigan Department of Community Health
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The Ultimate Impact

A reduction in early cancer deaths (before age 50) through statewide surveillance and implementation of systems of care for inherited breast, ovarian, colorectal and other Lynch syndrome (HNPCC) related cancers that use best practice recommendations for family history assessment, cancer genetic counseling and testing.
Mortality Rates for Early Onset Cancer (ages 0-49 years) in Michigan
Mortality Rates Among All Ages in Michigan

Year

Age-Adjusted Mortality Rate (per 100,000)

Male Breast
Colorectal
Ovarian
Our Program’s Goals
2008-2011

- Develop and implement a model for surveillance of inherited cancers and use of relevant genetic tests; and share with other cancer registries and national programs
- Identify model provider education programs to increase use of appropriate screening, counseling and evidence-based genetic tests; and share with public health and/or clinical practice organizations
- Identify a model health insurance policy for BRCA1 & 2 cancer genetic testing; and share with health plans in Michigan and other states
Reduction in early cancer deaths in Michigan residents from appropriate use of cancer genetic services and tests

Health Plan Champion

Surveillance

Michigan Cancer Surveillance Program (MDCH)

Four Clinical Cancer Genetics Sites

MDCH Genomics Program

Genomics

CDC Office of Public Health

Policy

Michigan Cancer Genetics Alliance

Education

Michigan Cancer Consortium
Target Population

State of Michigan

♦ Public
  ~ 10 million residents
  ~ 6.9 million under age 50

♦ Health systems and providers
  – 186 facilities reporting to the Michigan Cancer Surveillance Program (excludes labs, dermatology and dental offices)
  – ~64,000 new reportable cancer cases per year

♦ Health insurance plans
  – 24 health plans
Estimate of Potential Michigan Lives Saved Because of BRCA Counseling and Testing

- Using general population estimates
  - 7,264 (0.33%) will likely be BRCA positive
    - 6,174 (up to 85% risk of BRCA-related cancer)
    - **5,248 lives saved** (85% or greater risk reduction with surgery)

- Using USPSTF family history guidelines,
  - 2,179,089 females ages 18-49 in Michigan in 2008
  - 9.5% (95% CI: 6.9-13.0) of women (ages 18-49) met at least 1 out of 4 USPSTF family history guidelines (2008 MiBRFS)
  - An estimated **207,013 women** in Michigan are meeting USPSTF guidelines and would benefit from genetic counseling
    - 8,073 to 33,950 women (3.9-16.4%)
    - **Potential of 5,833 to 24,529 lives saved**
    - But, only 10.6% receive genetic counseling and 4.6% genetic testing (2008 MiBRFS)

Potential of ~5,248 to 24,529 Michigan females 18-49 year old lives saved because of BRCA counseling and testing

Estimate of Potential Michigan Lives Saved Per Year Because of Lynch syndrome Counseling and Testing

- **5,196** Michigan colorectal cancer cases reported per year (2006)
  - Approximately **156** (3%) of those will be caused by Lynch Syndrome
  - If each case has 4 first degree relatives who accept screening and testing, **281 will have the mutation** (45% of first degree relatives with mutation)
    - **112** with CRC (40% risk for CRC)
    - **69 lives saved per year** (62% risk reduction with increased surveillance)
  - If perform cascade testing on 12 first and second degree relatives, **655 will have the mutation** (35% of first and second degree relatives with mutation)
    - **262** with CRC
    - **162 lives saved per year**

Potential of ~69 to 162 Michigan lives saved per year
• Understand current status of Michigan health insurance policies for BRCA1/2 testing with respect to USPSTF guidelines and related clinical services for BRCA1/2 mutation carriers; and for Lynch syndrome genetic testing with respect to EGAPP recommendations
  – 9 out of 24 health plans with written policies for BRCA coverage
  – Only 6 in alignment with USPSTF recommendations
    • Covers over 6.57 million Michigan residents
    • 1.15 million Michigan residents uninsured (2008)
  – No known health plans with written policies for Lynch syndrome testing in alignment with EGAPP recommendations
• Increase the number of health plans that have policies consistent with USPSTF guidelines

✓ Plan to publish findings in 2011
<table>
<thead>
<tr>
<th>Health Plan</th>
<th>BRCA1/2 written policy (Y/N)</th>
<th>USPSTF family history criteria (#/8)</th>
<th>Referral to qualified health professional prior to testing (Y/N) * Requires Genetic Counseling</th>
<th>Number of Michigan Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurant</td>
<td>N</td>
<td></td>
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<td></td>
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<tr>
<td>Care Source</td>
<td>N</td>
<td></td>
<td></td>
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<tr>
<td>Grand Valley</td>
<td>N</td>
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<tr>
<td>Great Lakes</td>
<td>N</td>
<td></td>
<td></td>
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<tr>
<td>Health Plan of MI</td>
<td>N</td>
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<td>HealthPlus</td>
<td>N</td>
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<tr>
<td>McLaren</td>
<td>N</td>
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<td>Medicaid- MI</td>
<td>N</td>
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<tr>
<td>Midwest</td>
<td>N</td>
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<tr>
<td>Molina</td>
<td>N</td>
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<tr>
<td>OmniCare</td>
<td>N</td>
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<tr>
<td>Physicians Health Plan</td>
<td>N</td>
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<tr>
<td>ProCare Health Plan</td>
<td>N</td>
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<tr>
<td>Total Health Care</td>
<td>N</td>
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<tr>
<td>Upper Peninsula Health</td>
<td>N</td>
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</tbody>
</table>
Number of Michigan Health Insurance Plans Consistent with USPSTF BRCA1/2 Guidelines

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Plans</th>
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</thead>
<tbody>
<tr>
<td>2008</td>
<td>2</td>
</tr>
<tr>
<td>2009</td>
<td>5</td>
</tr>
<tr>
<td>2010</td>
<td>0</td>
</tr>
<tr>
<td>2011</td>
<td>0</td>
</tr>
<tr>
<td>Goal</td>
<td>25</td>
</tr>
</tbody>
</table>
Activities

- Review Michigan health plan policies for consistency with USPSTF BRCA recommendation, coverage for clinical services for BRCA positive members, and consistency with EGAPP Lynch recommendation
- Disseminate USPSTF guidelines and need for related clinical services for BRCA 1/2 mutation carriers to health plans through multiple venues
- Track BRCA counseling and testing at 13 clinical cancer genetics clinics for members with and without health plan policies consistent with USPSTF
- Recognize health plans consistent with USPSTF
- Provide technical assistance to health plans
- Conduct a workshop for health plans and cancer genomics experts

Resources

- USPSTF BRCA Recommendations
- EGAPP Lynch Syndrome Recommendations
- Health Plan Champion
- Michigan Cancer Consortium
- Michigan Cancer Genetics Alliance
- MDCH Genomics Program

Policy

Performance Measure

- Use of family history, genetic counseling and BRCA 1/2 testing (as recommended by USPSTF) and related clinical services increases from baseline

Promote Use of Identified Health Insurance Policy Model
Surveillance Objectives

• To examine the epidemiology of multiple primaries, early onset breast, male breast, ovarian and Lynch syndrome cancers
• To answer questions about the use of genetic counseling and tests:
  – Who is accessing genetic counseling? and testing?
  – What providers are referring for genetic counseling?
  – Is referral for counseling appropriate using USPSTF family history guidelines?
  – For patients having BRCA testing, what are their test results?
  – Do health plan policies that are consistent with USPSTF guidelines influence visits?
• To assess barriers/facilitators to cancer survivors knowledge and attitudes about family health history, genetic counseling and testing
• To provide data that will reinforce educational messages to health care providers
Epidemiology of Colorectal Cancer, All Ages Compared to 0-49 Years

Michigan Age-Adjusted Incidence Rates for Colorectal Cancer by Year, 1990-2006 All Ages

Almost a 25% decrease from 1990 to 2006

Michigan Age-Adjusted Incidence Rates for Colorectal Cancer by Year, 1990-2006 Ages 0-49 years

An increase from 5.8 in 1990 to 6.8 in 2006 but not a significant change

Source: Michigan Resident Cancer Incidence File
Michigan Demographics of Select Multiple Primaries

- Breast-Breast Cases
  - 5,634 people
  - 16 were males
  - 87.7% were white and 11.1% were black
  - 30.4% are deceased

- Colorectal-Colorectal Cases
  - 4,369 cases
  - 53.2% were male
  - 86.2% were white and 12.3% were black
  - 50.8% are deceased

✓ Plan to Publish MDCH Burden Document in 2010
Network of Clinical Cancer Genetics Clinics With Board-Certified Geneticist/Genetic Counselors

ACCESS database update coming in May/June 2010
### Demographics of Patients Accessing BRCA Counseling Services in Four Clinics

#### Demographic Data from the Four Clinical Sites from October 2007-October 2009*

<table>
<thead>
<tr>
<th></th>
<th>Site 1</th>
<th>Site 2</th>
<th>Site 3</th>
<th>Site 4*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number (%)</td>
<td>Number (%)</td>
<td>Number (%)</td>
<td>Number (%)</td>
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<tr>
<td>Total Patients</td>
<td>299</td>
<td>307</td>
<td>248</td>
<td>249</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>12 (4.0)</td>
<td>11 (3.6)</td>
<td>5 (2.0)</td>
<td>16 (6.4)</td>
</tr>
<tr>
<td>Female</td>
<td>287 (96.0)</td>
<td>296 (96.4)</td>
<td>243 (98.0)</td>
<td>233 (93.6)</td>
</tr>
<tr>
<td>Race</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>White</td>
<td>230 (76.9)</td>
<td>226 (73.6)</td>
<td>194 (78.2)</td>
<td>228 (91.6)</td>
</tr>
<tr>
<td>Black</td>
<td>58 (19.4)</td>
<td>69 (22.5)</td>
<td>19 (7.7)</td>
<td>10 (4.0)</td>
</tr>
<tr>
<td>Other</td>
<td>11 (3.7)</td>
<td>12 (3.9)</td>
<td>35 (14.1)</td>
<td>11 (4.4)</td>
</tr>
<tr>
<td>Ashkenazi Jewish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>45 (15.1)</td>
<td>14 (4.6)</td>
<td>3 (1.2)</td>
<td>48 (19.3)</td>
</tr>
<tr>
<td>No</td>
<td>254 (84.9)</td>
<td>293 (95.4)</td>
<td>245 (98.8)</td>
<td>201 (80.7)</td>
</tr>
<tr>
<td>Referral Type</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Medical Oncologist</td>
<td>65 (21.7)</td>
<td>98 (31.9)</td>
<td>32 (12.9)</td>
<td>42 (16.9)</td>
</tr>
<tr>
<td>Surgeon</td>
<td>34 (11.4)</td>
<td>18 (5.9)</td>
<td>58 (23.4)</td>
<td>101 (40.6)</td>
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<tr>
<td>OB/GYN</td>
<td>56 (18.7)</td>
<td>23 (7.5)</td>
<td>59 (23.8)</td>
<td>44 (17.7)</td>
</tr>
<tr>
<td>History of Cancer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal History Only</td>
<td>13 (4.3)</td>
<td>21 (6.8)</td>
<td>9 (3.6)</td>
<td>17 (6.8)</td>
</tr>
<tr>
<td>Family History Only</td>
<td>129 (43.1)</td>
<td>116 (37.8)</td>
<td>103 (41.5)</td>
<td>89 (35.7)</td>
</tr>
<tr>
<td>Personal and Family History</td>
<td>155 (51.8)</td>
<td>169 (55.0)</td>
<td>136 (54.8)</td>
<td>136 (54.6)</td>
</tr>
</tbody>
</table>

*Only 1 year of data from October 2007-October 2008

Patients were included if they had an initial visit at that site; patients who only had follow-up data were excluded.

- Who is accessing cancer genetic counseling services?
- What types of providers are referring?
- Patients were included if they had an initial visit at that site; patients who only had follow-up data were excluded.

 ✓ Plan to publish in 2011
## Do Health Plan Policies Consistent with USPSTF Influence Visits?

<table>
<thead>
<tr>
<th>Health Plan</th>
<th>BRCA1/2 written policy (Y/N)</th>
<th>Consistent with USPSTF</th>
<th>Number (%) of Patients at 4 Clinical Sites Receiving Cancer Genetic Counseling</th>
<th>Number of Michigan Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aetna</td>
<td>Y (2008)</td>
<td>Y</td>
<td>28 (2.5)</td>
<td>280-291,000</td>
</tr>
<tr>
<td>Assurant</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCBSM; BCN</td>
<td>Y (4/2009)</td>
<td>Y</td>
<td>560 (51.9)</td>
<td>4.6 million; 625,000</td>
</tr>
<tr>
<td>Care Source</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cigna</td>
<td>Y (2009)</td>
<td>Y</td>
<td>21 (1.9)</td>
<td>pending</td>
</tr>
<tr>
<td>Grand Valley</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Lakes</td>
<td>N</td>
<td></td>
<td>10 (0.9)</td>
<td></td>
</tr>
<tr>
<td>Harrington - Beaumont</td>
<td>Y (2008)</td>
<td>Y</td>
<td>16 (1.5)</td>
<td>34,818</td>
</tr>
<tr>
<td>Health Plan of MI</td>
<td>N</td>
<td></td>
<td>3 (0.3)</td>
<td></td>
</tr>
<tr>
<td>HealthPlus</td>
<td>N</td>
<td></td>
<td>1 (0.1)</td>
<td></td>
</tr>
<tr>
<td>McLaren</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicaid- MI</td>
<td>N</td>
<td></td>
<td>33 (3.1)</td>
<td></td>
</tr>
<tr>
<td>Medicare</td>
<td>Y (2008)</td>
<td>N</td>
<td>111 (10.3)</td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>N</td>
<td></td>
<td>6 (0.6)</td>
<td></td>
</tr>
<tr>
<td>Molina</td>
<td>N</td>
<td></td>
<td>3 (0.3)</td>
<td></td>
</tr>
<tr>
<td>OmniCare</td>
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<td></td>
<td>4 (0.4)</td>
<td></td>
</tr>
<tr>
<td>Paramount</td>
<td>Y</td>
<td>N</td>
<td>2 (0.2)</td>
<td></td>
</tr>
<tr>
<td>Physicians Health Plan</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Priority Health</td>
<td>Y (2008)</td>
<td>Y</td>
<td>8 (0.7)</td>
<td>450,000</td>
</tr>
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<td>ProCare Health Plan</td>
<td>N</td>
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<td></td>
</tr>
<tr>
<td>Total Health Care</td>
<td>N</td>
<td></td>
<td>4 (0.4)</td>
<td></td>
</tr>
<tr>
<td>Upper Peninsula Health</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>United Health</td>
<td>Y (8/2009)</td>
<td>Y</td>
<td>31 (2.9)</td>
<td>570,000</td>
</tr>
</tbody>
</table>
BRCA Test Results From One Michigan Clinic

Is referral for counseling appropriate using USPSTF family history guidelines? Who is accessing BRCA testing? What are their test results?

• 342 included in analysis (excluded males, BART only, known mutations)

– 120 unaffected (35.09%); 62 (51.67%) met USPSTF family history
  • 46 underwent testing (38.33%)
    – Negative: 40 (86.96%)
    – Positive: 4 (8.7%)
    – Variant: 2 (4.35%)
  • 74 (61.67%) did not pursue testing
    – 34 (45.95%): not clinically indicated
    – 17 (22.97%): not the best test candidate
    – 7 (9.46%): do not want to know

– 222 affected (64.91%) (81.8% breast cancer only)
  • 178 (80.18%) underwent testing
    – Negative: 159 (89.33%)
    – Positive: 9 (5.06%)
    – Variant: 9 (5.06%)
    – Positive & Variant: 1 (0.56%)
  • 44 (19.82%) did not pursue testing
    – 18 (40.91%): not clinically indicated
    – 9 (20.45%): inadequate insurance coverage
    – 7 (15.91%): discuss with relatives

✔ Plans to Publish in 2010
Activities

- Examine existing cancer registry data to monitor early onset, multiple primary and male breast cancer incidence rates, trends, and mortality
- Collect and analyze data on use of family history, genetic counseling, and testing through MCSP chart reviews
- Form a network with thirteen clinical sites to collect and share data on referrals and use of BRCA testing and follow-up decisions and care after testing positive for a known or variant mutation
- Survey cancer survivors to assess barriers and facilitators to knowledge, attitudes, and use of genetic counseling and testing
- Explore feasibility of linking clinical sites BRCA positive patients with MCSP
- Investigate feasibility of using Medicaid claims to determine number of colorectal cancer patients having Lynch syndrome pre-testing or genetic testing
- Use BRFs to conduct surveillance on family and personal history of breast, ovarian and colorectal cancer and genetic services

Resources

- USPSTF BRCA Recommendations
- EGAPP Lynch & Gene Expression Guidelines
- Michigan Cancer Genetics Alliance
- MDCH Genomics Program
- Michigan Cancer Surveillance Program (MCSP)
- Four Clinical Cancer Genetics Sites

Surveillance

Performance Measure

★ A system for surveillance of BRCA 1/2, Lynch syndrome, and tumor profiling tests; with increased understanding of provider practices and patient knowledge

Promote Use of Model Surveillance System
Education Objectives

- Use statewide surveillance data in conjunction with USPSTF and EGAPP guidelines

- Increase provider awareness about EGAPP recommendations for Lynch syndrome/HNPCC and gene expression profiling tests for early stage breast cancer

- Increase use of USPSTF clinical practice guidelines for BRCA risk assessment and testing

- Change provider knowledge, attitudes and intentions to ultimately reduce the number of early cancer deaths
Activities

- Disseminate reports to hospitals on the number of potential patients needing BRCA, Lynch and gene expression profiling tests, based on MCSP data
- Disseminate USPSTF and EGAPP guidelines, written materials, risk assessment tools, website resources, and cancer genetic provider directory
- Provide free technical assistance to providers
- Provide free in-service presentations

Resources

- USPSTF BRCA Recommendations
- EGAPP Lynch & Gene Expression Guidelines
- Michigan Cancer Consortium
- Michigan Cancer Genetics Alliance
- MDCH Genomics Program
- Audience Response System

Education

Performance Measures

- Use of family history, counseling and BRCA 1/2 testing (as recommended by USPSTF) increases from baseline
- Knowledge of validity, utility, harms and benefits of Lynch syndrome and gene expression profiling tests increases from baseline

Promote Use of Model Provider Health Education Program
Developing a Provider Tool

**Background Surveillance Data**

- Approximately 94-98% of reviewed Michigan medical charts do not have a documented age of cancer diagnosis for affected family members
- Key informant interview reveal many Michigan providers:
  - Feel that they do not see patients with high-risk cancer family history
  - Do not feel confident in ability to identify high-risk family history
  - Uncertain where to refer

**Public Health Action**

- Used USPSTF and EGAPP guidelines (along with NCCN), to develop a new pocket tool for providers
- Four provider focus groups held (family medicine and oncology); unanimous agreement that tool would be used in practice
- The tool assists providers in:
  - Collecting cancer family history
  - Assessing the risk of hereditary cancer
  - Proceeding with referral and/or increased surveillance based on recommendations
Facility-specific Profiles

A Cancer Genetics Profile:
Prepared for
Oakwood Hospital

Focusing on Your Patients’ Hereditary Cancer Risk

March 1, 2010

Draft Hospital and Medical Center
on Hereditary Breast and Ovarian Cancer Syndrome (HBOC)
and Lynch Syndrome

Table 1. Number of early onset
Breast and Endometrial cases within your health system and within Michigan.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Breast (female)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Endometrial</td>
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</tbody>
</table>

Table 2. Number of colorectal and ovarian cancer cases within your health system and within Michigan.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Breast (male)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorectal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ovarian</td>
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</tbody>
</table>

Table 3. Number of cases with multiple cancer diagnoses
including breast, bowel, ovarian, and colorectal.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Multiple primary cancer diagnoses</td>
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<td></td>
</tr>
</tbody>
</table>

Prepared on March 1, 2010 by MDCH staff.
Contents

• Introductory letter
• Guidelines
  – USPSTF
  – EGAPP
  – NCCN
• Data Report
• MCGA Directory of Cancer Genetics Services
• Resources: informed consent brochure, newsletters, fact sheets
• Front cover: Resource CD, MDCH fact cards, and our new pocket guide

May 2010

Dear Healthcare Provider:

The Michigan Department of Community Health (MDCH) is pleased to provide this Cancer Genetics Profile. The profile highlights the number of cancer patients at your facility who may be at risk for Hereditary Breast and ovarian Cancer (HBOC) syndrome or Lynch Syndrome (also called hereditary Non-Polyposis Colorectal Cancer Syndrome or HNPCC). Patients who have early onset cancer, multiple primary diagnoses of cancer, rare familial history, or a significant family history are at increased risk for these conditions. These patients should be offered genetic counseling to discuss the risks, benefits, and limitations of genetic testing and to evaluate the need for increased cancer surveillance. Identifying those at risk for hereditary cancer benefits patients and family members who may be unaware of the familial risk.

As you may know, healthcare facilities in Michigan must report cancer diagnoses to the Michigan Cancer Surveillance Program (USPSTF). We analyzed case reports received in 2008-09 to create a summary specifically for your facility. In addition, your facility’s cancer registries will be sent the names of patients who might be at increased risk for hereditary cancer so you may determine if appropriate genetic services were offered. Indicated in this profile are:

- Facility report with the number of cancer patients at your facility who may be at risk for hereditary cancer.
- Clinical recommendations for patients with a family history of breast and ovarian cancer.
- Clinical guidelines for evaluation of patients with Lynch syndrome in colorectal cancer patients.

The resources and services provided in this profile may also be used to meet the Accreditation of Genetic Counseling Programs (ACOG) Cancer Program's Patient Care Improvement Standards. Standards 5.2 and 9.2 focus specifically on early detection, evaluation, and management practices and improving patient care, respectively. MDCH is sharing your facility’s data with you in order to promote evidence-based practices for the appropriate use of genetic services and tests. Your individual report will not be shared with any party outside your health system and is for internal use only.

The MDCH cancer genomics educator, Ms. Jamee McCloskey, MS, CGC, is available to discuss this report in greater detail. If you would like to contact Ms. McCloskey or if you have questions about hereditary cancer, please contact Ms. McCloskey at 810-335-3029 or mccloskey@Michigan.gov.

Thank you for helping to promote cancer genomics best practices within the state of Michigan.

Sincerely,

Gregory B. Degroot, MD, MPH
Chief Medical Executive
Dissemination of Facility Reports

- Using registry data, we are generating facility specific reports for all non-SEER facilities in 2010; SEER in 2011

- Dissemination will occur by region
  - Region 3 in May 2010
  - Regions 6/7 in June 2010
  - Region 5 in Sept 2010
  - Region 4 in Oct 2010
  - Region 8 in Nov 2010
  - Region 9/10 in Dec 2010
Websites

www.migeneticsconnection.org

www.michigan.gov/genomics

Information on Cancer Genetic Testing and Counseling:

Beyond September 29, 2011

• Increase % of women with appropriate family history receiving BRCA counseling (HP2020)
  – Address barriers to BRCA counseling such as geography
  – Measure effects of new service delivery systems such as Informed Medical Decisions, Inc.
• Increase % of appropriate BRCA testing
  – Cascade screening starting with affected family member
• Increase % of colorectal cancer patients having Lynch syndrome screening (HP2020)
  – Expand clinical sites surveillance and health plan education to Lynch syndrome and other hereditary cancer syndromes (such as FAP, MYH)
• Disseminate AHRQ/RTI tool to relevant providers and systems
• Additional surveillance
  – Newer cancer registry elements (site specific factors, family history)
  – BRFS call-back survey to collect additional family history, genetic counseling and testing information
  – Hereditary Cancer Expert Mortality Review
  – Early Onset Breast Cancer Survivorship Survey
• Public education regarding Lynch syndrome
• Linkage of databases
  – Infertility to MCSP
  – BRCA positive from clinical sites to MCSP
Female Breast Cancer, 0-49 years

Ten-Year Age-Adjusted Incidence Rates for Breast Cancer among Michigan Women, ages 0-49 years

Source: Michigan Resident Cancer Incidence File
**Infertility Project**

- Michigan one of the three states to perform linkage of ART registry with live births, infant deaths, hospital discharge
- Pilot project for Michigan - linkage with cancer registry
  - Infertility before and after cancer diagnostic and treatment
- Potential research topics:
  - Outcomes of ART Procedures for Patients Previously Treated for Cancer
  - Surveillance of cancer risk in women following ART
Cancer – live births linkage update

• Preliminary results:
  – 36,924 women born between the years 1955 and 1988 had a birth link
  – The number of linked cases diagnosed before, within and following the linked birth year varied by cancer site:
    • Over 90% of breast and uterine cases followed the delivery
    • 64% of ovarian cancer cases followed the delivery

• Next steps:
  – Random cases selected for linkage validation
  – Link with ART through live births when IRB approval is obtain
  – Conduct epidemiological studies
  – Use the findings to develop strategies and policies as appropriate
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Oakwood Hospital: Dr. Julie Zenger Hain

Health Plan “Champion”
Karen Lewis, Priority Health

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Kara Milliron, Co-Chair

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