Meaningful Use Cancer Reporting in Maryland: What Do You Mean?

NAACCR 2016 Annual Conference, St. Louis, MO

Carmela Groves, RN, MS,¹ Diane Ng, MPH, CPH,¹ Delores Rich, MLS,²

¹Westat, ²Maryland Department of Health and Mental Hygiene, Maryland Cancer Registry
Objectives

- Describe operational aspects of validation testing files
- Discuss development and implementation of tools
- Provide status of testing
- Discuss challenges, next steps
MU Cancer Reporting

Maryland Department of Health and Mental Hygiene (DHMH)

Meaningful Use Office

Maryland Cancer Registry

Westat
Westat’s Role in MU

- Perform validation testing
- Develop procedures, tools
- Communicate with providers, vendors, partners
- Set up transport option
- Participate in conference calls and discussions
Tools Developed

- Procedures, guidelines
  - Registry operations
  - Guidance to providers
  - Common testing issues

- Database to efficiently track MU providers and related events
  - Moved from Excel spreadsheet to Access
Steps Related to Validation Testing

Registration and set up
- EP registers with DHMH; DHMH sends list of active EPs to Westat
- Westat imports data related to new EPs into Access database
- Westat IT manager creates account for file uploads and sends information to EP to begin testing

Testing with fake data
- Westat asks the EP to send a test file within 15 days
- If the file does not “pass,” give EP another 15 days to send a corrected file
- If the EP does not send a file within 15 days, send a follow-up email; if an EP that does not send a file or does not respond in 30 days or more, notify DHMH that the EP is non-responsive

Testing with real data
- Once an EP “passes” with fake data, ask to send a test file with real patient data
- Similar follow-up to testing with fake data occurs

Production
- If an EP “passes” with real patient data, the EP is ready for production
- Ask EPs that provide oncology services to submit bi-monthly and EPs that do not provide oncology services to submit quarterly
- Files are routinely reviewed for quality assurance
Procedures for Testing
Tracking before MU Database

- Excel spreadsheet
  - 4,983 rows, 45 columns
    - Rows: individual providers for each registration
    - Columns: variables (e.g., date started testing, status, facility info)
### Excel Data File

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>No</td>
<td>Yes</td>
<td>7/5/2015</td>
<td>9/2/2015</td>
<td>X</td>
<td>9/24/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>No</td>
<td>Excluded</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Yes</td>
<td>Yes</td>
<td>7/6/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38</td>
<td>Yes</td>
<td>X</td>
<td>9/8/2015</td>
<td>7/13/2015</td>
<td>7/13/2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Yes</td>
<td>9/22/2014</td>
<td>10/13/2014</td>
<td>10/13/2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>No</td>
<td>Excluded</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>No</td>
<td>Yes</td>
<td>7/5/2015</td>
<td>9/2/2015</td>
<td>7/13/2015</td>
<td>7/13/2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td>9/24/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>No</td>
<td>Excluded</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>Yes</td>
<td>Excluded</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>86</td>
<td>No</td>
<td>Excluded</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92</td>
<td>Yes</td>
<td>4/3/2015</td>
<td>4/14/2015</td>
<td>4/14/2015</td>
<td>9/12/2015</td>
<td>Upload to doc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>164</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td>X</td>
<td>9/24/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>195</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>196</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>197</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>199</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>No</td>
<td>Excluded</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>201</td>
<td>No</td>
<td>Excluded</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>202</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td>X</td>
<td>9/24/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>211</td>
<td>No</td>
<td>Yes</td>
<td>7/6/2015</td>
<td>9/2/2015</td>
<td>9/24/2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **A:** Started Testing?
- **B:** Follow-up email for non-submission?
- **C:** Date of follow-up non-submission email?
- **D:** Date non-responsive provider (never initiated testing)?
- **E:** If yes, date sent to DHMH?
- **F:** If yes, date sent to provider (initiated testing)?
- **G:** Date account info emailed to provider?
- **H:** Date First Te Date Started Ti Date Prod Fille Reed
- **I:** Method of file transfer (production)?
MU Tracking Database
MU Tracking Database
MU Tracking Database

- Improvements with process of identifying new EPs
- Improved time management
- Better tracking of communication and “events”
- Ability to easily run queries and generate reports
## Status of Testing

### Meaningful Use Summary

<table>
<thead>
<tr>
<th>Facility Status</th>
<th>Test Status</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>Not Started</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>Passed</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Started</td>
<td>36</td>
</tr>
<tr>
<td>Excluded</td>
<td>Not Started</td>
<td>103</td>
</tr>
<tr>
<td></td>
<td>Started</td>
<td>19</td>
</tr>
<tr>
<td>Inactivated</td>
<td>Not started</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Started</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>254</td>
</tr>
</tbody>
</table>

*Tuesday, May 17, 2016*
Status of Testing, May 2016

- 124 Active
  - 78 not started testing
  - 36 in testing
  - 7 passed testing
  - 3 in production

- 122 Excluded

- 8 Inactivated
Total EPs Registered for MU Cancer by Month, Mar 2014-May 2016
Challenges

- Technology-driven
- Interpretation of testing results
- Missing data
- Vendor workflow
- Inquiries from providers, vendors
Next Steps

- Perform quality assurance testing on production files
- Develop procedures for exporting files out of eMaRC
- Assess impact of MU on reporting
  - Attempt matches of MU files to the registry database on a patient level
  - Conduct analysis to see if MU files contain useful information, with a specific interest in staging and treatment data
Summary and Conclusion

- Multi-faceted program
  - Technology-oriented
  - Automation
  - Cancer registration/EHR focus
    - Innovative approach to increase reporting and improve data quality
    - Role of registrars important
      - Monitor data
      - Quality assurance
Acknowledgements

- **Westat** (Diane Ng, Serban Negoita, Dylan Holt, Erika Wilson, Krishna Hari)
- **Maryland Cancer Registry, DHMH** (Kimberly Stern, Delores Rich)
- **Meaningful Use office, DHMH** (Patricia Schwartz, Naima Garrett)
- **CDC** (Wendy Blumenthal, Lindsay Ryan)
Thank you!