Know the Flow – An Overview of Central Cancer Registry Data Operations

Maryland Cancer Registry
Tumor Registrars Association of Maryland
March 14, 2014
Central Cancer Registry Data Operations

- Objectives
  - Provide the members of TRAM an overview of MCR operations
  - Provide an overview of processing and consolidation of abstracts received by the MCR
  - Discuss process improvement initiatives
Central Cancer Registry Data Operations

- Registry Plus Suite of Products developed by the CDC/NPCR
  - Web Plus
  - EMaRc Plus
  - Prep Plus
  - CRS Plus
  - GenEdits Plus
  - Registry On-Line Help
Central Cancer Registry Data Operations

MCR Consolidated Record

- Hospitals
- Physicians offices
- Radiation Therapy
- Ambulatory Surgery
- Interstate Data
- Independent Labs
Central Cancer Registry Data Operations

- **Methods of Transmission**
  - Web Plus
    - Uploads
    - Direct Data Entry
  - EMaRc Plus
  - Interstate Data Exchange via use of a DocServer
Central Cancer Registry Data Operations

- The Web Plus Direct Data Entry is basically an on-line abstracting tool for facilities to utilize. We have different abstracting forms for different types of facilities:
  - Laboratory
  - Ambulatory Surgery
  - Physician Office
  - Hospital
  - Radiation Therapy

- As you can imagine, each facility has unique data to report.
Central Cancer Registry Data Operations

- Web Plus Direct Data Entry
Central Cancer Registry Data Operations
Central Cancer Registry Data Operations

- **Facility Uploaders**
  - Create a batch of abstracts and upload the data all at once.
  - Report either monthly or quarterly
Central Cancer Registry Data Operations

Web Plus

Upload Abstract Bundle

Select your upload type. NAACCR V13.x, Non-NAACCR, or NAACCR V12. If you have selected either NAACCR file upload option, the files must be in the correct NAACCR version record layout. NOTE: If you are uploading a NAACCR version 13.0 file, edits will be automatically run upon upload of the file and the edits error report will open in a separate window. For files uploaded in NAACCR version 12.x or NAACCR version 13.0 file formats, the file will be uploaded and submitted for edits processing by your central registry. You will be notified via e-mail when your error report becomes available for viewing.

- NAACCR V13.x File
- Non-NAACCR File
- NAACCR V12 File

Select a file to upload: Browse

Comment

Upload
## Central Cancer Registry Data Operations

![Web Plus interface with bundle submissions](image)

<table>
<thead>
<tr>
<th>Facility</th>
<th>Original File Name</th>
<th>Internal File Name</th>
<th>NAACCR Version</th>
<th>Date Uploaded</th>
<th>Status</th>
<th>Total Abstracts</th>
<th>Abstracts with Errors</th>
<th>Total Errors</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002463.ML7</td>
<td>F0005745.ML7</td>
<td>NAACCR</td>
<td>1/31/2014 1:56:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>00080257</td>
<td>SGA0318.XVA</td>
<td>F0005744.ML7</td>
<td>1/31/2014 11:00:00 AM</td>
<td>Bundle Exported</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002209.ML7</td>
<td>F0005743.ML7</td>
<td>NAACCR</td>
<td>1/30/2014 5:39:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002217.ML7</td>
<td>F0005742.ML7</td>
<td>NAACCR</td>
<td>1/30/2014 5:29:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00053204</td>
<td>CE09080.XYA</td>
<td>F0005741.ML7</td>
<td>1/30/2014 1:35:00 PM</td>
<td>Bundle Exported</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00053204</td>
<td>CE09280.XYA</td>
<td>F0005740.ML7</td>
<td>1/30/2014 1:21:00 PM</td>
<td>Bundle Exported</td>
<td>54</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00053204</td>
<td>CE09280.XYA</td>
<td>F0005735.ML7</td>
<td>1/30/2014 1:19:00 PM</td>
<td>Bundle Exported</td>
<td>75</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002066.ML7</td>
<td>F0005737.ML7</td>
<td>NAACCR</td>
<td>1/20/2014 12:40:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002362.ML7</td>
<td>F0005735.ML7</td>
<td>NAACCR</td>
<td>1/20/2014 12:45:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002142.ML7</td>
<td>F0005735.ML7</td>
<td>NAACCR</td>
<td>1/20/2014 11:40:00 AM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002216.ML7</td>
<td>F0005735.ML7</td>
<td>NAACCR</td>
<td>1/20/2014 3:07:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002162.ML7</td>
<td>F0005735.ML7</td>
<td>NAACCR</td>
<td>1/20/2014 5:07:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002161.ML7</td>
<td>F0005735.ML7</td>
<td>NAACCR</td>
<td>1/29/2014 8:29:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002163.ML7</td>
<td>F0005735.ML7</td>
<td>NAACCR</td>
<td>1/28/2014 1:07:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9999800345</td>
<td>ORU01_CDC2014-002164.ML7</td>
<td>F0005735.ML7</td>
<td>NAACCR</td>
<td>1/28/2014 5:31:00 PM</td>
<td>Bundle Exported</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Central Cancer Registry Data Operations

- All facilities using either Web Plus Upload, Web Plus Direct Data Entry, or EMaRc Plus are monitored using the bundle submission spreadsheet.

- What happens next???
Central Cancer Registry Data Operations

- Bundles are exported from Web Plus into a file holding folder within the MCR project drives at Westat.

- Archive copies are maintained as well.
Central Cancer Registry Data Operations

- Direct Data Entry
- Upload
- EMaRc

File Holding

Prep Plus
Central Cancer Registry Data Operations

- Prep Plus
  - Visual Review of all Abstracts brought into the application.
  - Correct edit errors that may still linger after submission.
Central Cancer Registry Data Operations
Central Cancer Registry Data Operations
Central Cancer Registry Data Operations

- After all abstracts have been reviewed and corrected, we release the bundle to another holding folder for import into CRS Plus.

- An edit error report is generated for each error identified within each record.

- Any change the MCR makes to the abstract is also documented in a ‘Local Use Text’ field.
Central Cancer Registry Data Operations

- CRS Plus is the tool used for matching and to consolidate records from multiple facilities into one tumor summary.

- Matching occurs based on Fname, Lname, DOB, SSN.

- Some abstracts are ‘disposed’ of directly into the database if there are no matches.

- Some abstracts are sent to ‘pending’ due to a match being found and therefore need manual consolidation.
Central Cancer Registry Data Operations
Central Cancer Registry Data Operations
Central Cancer Registry Data Operations

### Consolidation Review

#### Legend
- Manual Review
- New value same as existing value
- New value different from existing value

#### Consolidation Result

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Existing Value</th>
<th>Incoming Value</th>
<th>New Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgeDx</td>
<td>073</td>
<td>072</td>
<td>072</td>
</tr>
<tr>
<td>Alias</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BehaviorCD02</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BehaviorCD03</td>
<td>19380427</td>
<td>19380827</td>
<td>19380827</td>
</tr>
<tr>
<td>BirthDate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BirthDateFlag</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BPSState</td>
<td>ZZ</td>
<td>ZZ</td>
<td>ZZ</td>
</tr>
<tr>
<td>RPCountry</td>
<td>ZZU</td>
<td>ZZU</td>
<td>ZZU</td>
</tr>
<tr>
<td>CasefindingSrc</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Steps of consolidation: CSSSF21

<table>
<thead>
<tr>
<th>Abstract</th>
<th>Chosen</th>
<th>CSSSF21</th>
<th>Comment</th>
<th>Click for Help</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>All values were the same.</td>
<td></td>
</tr>
<tr>
<td>Existing MedRefID=4744277</td>
<td>988</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming AbsRefID=1980053, Tumor=00</td>
<td>988</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AbsRefID=19128333, Tumor=00</td>
<td>988</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Directives

- EliminateByPresence([000-367],[988])
- EliminateByPresence([363-999],[988])
- KnownOverUnknown
- EliminateByPresence([000-367],[998])
- ManuallyAmbiguous

[Accept]  [Reject]
Central Cancer Registry Data Operations

Consolidation Review

Legend
- Manual Review
- New value same as existing value
- New value different from existing value

Consolidation Result

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Existing Value</th>
<th>Incoming Value</th>
<th>New Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNSLymphNodes</td>
<td>000</td>
<td>999</td>
<td>000</td>
</tr>
<tr>
<td>CSNodesEval</td>
<td>0</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>CSMetsDX</td>
<td>00</td>
<td>99</td>
<td>00</td>
</tr>
<tr>
<td>CSMetsEval</td>
<td>0</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>CSMetsAIDxBone</td>
<td>0</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>CSMetsAIDxBrain</td>
<td>0</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>CSMetsAIDxLiver</td>
<td>0</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>CSMetsAIDxLung</td>
<td>0</td>
<td>9</td>
<td>999</td>
</tr>
<tr>
<td>CSSSF1</td>
<td>999</td>
<td>999</td>
<td>999</td>
</tr>
</tbody>
</table>

Steps of consolidation: CSMetsAIDxLung

<table>
<thead>
<tr>
<th>Abstract</th>
<th>Chosen</th>
<th>CSMetsAIDxLung</th>
<th>Comment</th>
<th>Click for Help</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>'0' was selected because no eliminator value was not found</td>
<td></td>
</tr>
<tr>
<td>Existing MedRefId=4744277</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming AbsRefId=1980053, Tumor=00</td>
<td>9</td>
<td>Eliminated unknown value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AbsRefId=1312833, Tumor=00</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Directives
- KnownOverUnknown
- EliminateByPresence[[1],[0]]
- ManualAmbiguous

Accept | Reject
Central Cancer Registry Data Operations
Central Cancer Registry Data Operations

Edits in applications

Direct Data Entry

Upload

EMaRc

File Holding

Edits

Prep Plus

File Holding

CRS Plus Final Edits

Database
Central Cancer Registry Data Operations

- What can I do to help with the process?
  - Double Check your Confirmation letter to be sure the number of cases you submitted were actually received at Westat.
Central Cancer Registry Data Operations

- TEXT Fields

  - Our QA activities are only as good as the text provided.

  - Example:

    - Text Staging: Staged by Dr. Smith form in chart.

    - Vs.

      - Text Staging: Staged by Dr. Smith. T1mi due to micro foci, N0 – no nodes documented, MX – not evaluated. Stage 1A
Central Cancer Registry Data Operations

- Add DATES

  - It is important for us to have dates of diagnosis, procedures and treatment to verify when reviewing multiple facility submissions.
Central Cancer Registry Data Operations
Central Cancer Registry Data Operations

- Thank you

- Mary Mesnard, BS, RHIA, CTR
- 301-212-3705
- marymesnard@westat.com