NMVB REDCap Project

2018 Annual Face to Face Meeting

https://www.mesotissue.org/

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Our Goal with this Project

- We are Committed To Providing the Existing NMVB Functionality
- Improving the User NMVB Experience
Why Change to a REDCap Project?

- REDCap is Secure:
Why Change to a REDCap Project?

- REDCap is Secure:
  - Secure Login Page
  - All traffic between the browser and application is encrypted
  - Data stored at a secure location (NOC)
  - Audit Trails for accountability
Why Change to a REDCap Project?

- REDCap is Reliable
Why Change to a REDCap Project?

- REDCap is Reliable:
  - Used by over 2800 institutions
  - Developed and supported by Vanderbilt
  - Experienced REDCap team here at DBMI
Why Change to a REDCap Project?

➢ The REDCap Features:
Why Change to a REDCap Project?

- The REDCap Features:
  - Ease of Project Modification
  - Mandatory Fields
  - Range Checking
  - Form locking/unlocking
  - Dynamic Query (SQL)
  - Standard Reporting Capabilities
  - Repeatable Forms
Dynamic Query (SQL) will provide a list of Pathology Accessions for the Specimen Part to be Linked to:

Dynamic Query (SQL) will provide a list of Specimen Parts for the Block Annotation to be Linked to:
New REDCap NMVB Record/Case Interface

**Record Home Page**

The grid below displays the form-by-form progress of data entered for the currently selected record. You may click on the colored status icons to access that form/event.

**Record ID MVB1080**

<table>
<thead>
<tr>
<th>Data Collection Instrument</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollment</td>
<td>⬤</td>
</tr>
<tr>
<td>Patient Demographics</td>
<td>⬤</td>
</tr>
<tr>
<td>Patient Medical History</td>
<td>⬤</td>
</tr>
<tr>
<td>Recurrence</td>
<td>⬤</td>
</tr>
<tr>
<td>Therapy</td>
<td>⬤</td>
</tr>
<tr>
<td>Physical Characteristics and Imaging History</td>
<td>⬤</td>
</tr>
<tr>
<td>Occupation and Exposure History</td>
<td>⬤</td>
</tr>
<tr>
<td>Tobacco and Alcohol Use</td>
<td>⬤</td>
</tr>
<tr>
<td>Family Cancer History</td>
<td>⬤</td>
</tr>
<tr>
<td>Vital Status</td>
<td>⬤</td>
</tr>
<tr>
<td>Specimen Annotation</td>
<td>⬤</td>
</tr>
</tbody>
</table>

**Repeating Instruments**

- **Patient Medical History**: 1
  - + Add new

- **Therapy**: 1
  - + Add new

- **Occupation and Exposure History**: 1
  - + Add new
  - + Add new

- **Family Cancer History**: 1
  - + Add new

- **Vital Status**: 1
  - + Add new

- **Specimen Annotation**: 1
  - + Add new
Data Types Include:
- Multiple Choice Drop-down list
- Radio Buttons
- Calculated Fields
- Checkboxes
- Slider/Visual Analog Scale
- Dynamic Query (SQL)
- File Upload
- Date/Time
# New REDCap NMVB Record/Case Interface

## NMVB - Rework 2

The grid below displays the form-by-form progress of data entered for the currently selected record. You may click on the colored status icons to access that form/event.

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<table>
<thead>
<tr>
<th>Data Collection Instrument</th>
<th>Status</th>
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<tbody>
<tr>
<td>Enrollment</td>
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<td>Vital Status</td>
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</tr>
<tr>
<td>Specimen Annotation</td>
<td></td>
</tr>
</tbody>
</table>

### Repeating Instruments

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Count</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Medical History</td>
<td>1</td>
<td>+ Add new</td>
</tr>
<tr>
<td>Therapy</td>
<td>1</td>
<td>+ Add new</td>
</tr>
<tr>
<td>Occupation and Exposure History</td>
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<tr>
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<td>1</td>
<td>+ Add new</td>
</tr>
</tbody>
</table>

Legend for status icons:
- **Incomplete**: Data collected but not confirmed.
- **Incomplete (no data saved)**: Data collected but not confirmed and will not be saved.
- **Unverified**: Data entered but not verified.
- **Complete**: All data entered and verified.
- **Many statuses (all same)**: Multiple statuses for the same form.
- **Many statuses (mixed)**: Multiple statuses for different forms.

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[The REDCap Consortium](https://www.redcapconsortium.org) | [Citing REDCap](https://www.redcap.org/citing-redcap) | [WIKI](https://www.redcap.org) | [DefiRec](https://www.redcap.org/defi-rec) | [CCBC](https://www.redcap.org/ccbc)
Look at an existing record
### Existing Therapy Record

**Record ID**: MVB1080

**Therapy Type**
- Surgery
- Radiation therapy
- Chemotherapy
- Hormone therapy
- Immunotherapy
- Brachytherapy
- Cryotherapy
- External beam
- Watchful expectancy
- Other
- Talc Pleurodesis
- Photodynamic
- None
- Unknown

**Therapy Months After Diagnosis**: 1

**Neoadjuvant Therapy**: No

**Presence of Pleural Effusion**
- Yes
- No
- Unknown
- Not applicable

**Presence of Ascites**
- Yes
- No
- Unknown
- Not applicable

**Form Status**
Create New Therapy Record
Reporting Functionality that will be Available at the time of Initial Release

- A Group of Standard Reports
- A Group of Users will be able to define Additional Reports
- Text, Statistics and Charts of Data
- Exports to Excel, SSPS, SAS, R, and STATA
Example of Case Type Report

**Case Type**

**DISPLAY OPTIONS**

Optional: Select a record to overlay onto the plots below

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**Viewing options:** Show plots & stats, Show plots only, Show stats only

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**Case Type**

**Refresh Plot** | **View as Pie Chart**

<table>
<thead>
<tr>
<th>Count</th>
<th>Missing</th>
<th>Unique</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1 (10.0%)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Counts/Frequency:** Mesothelioma: Benign - Pleural (3, 33.3%), Mesothelioma: Malignant - Pleural (5, 55.6%), Mesothelioma: Consult Only (1, 11.1%), Mesothelioma: Slide Review only (0, 0.0%), Non-Mesothelioma (0, 0.0%), Mesothelioma Malignant - Peritoneal (0, 0.0%), Mesothelioma Benign - Peritoneal (0, 0.0%), Other (0, 0.0%), Unknown (0, 0.0%)
What Challenges Lie Ahead?

- Finalize the Project Inputs
- Upload Existing Data into the NMVB REDCap Project
- QA/QC on NMVB Data
  - The Good News:
    - Our Team has ETL an existing project of similar scope and size recently
Thank-You