Revised TB case definitions
Option 1 – main case categories

Minimal changes to current case definitions

- **Definite**
  - Culture-pos
  - Smear-pos
  - *WRD-pos*

- **Case**
  - Definite AND
  - Other cases put on tx

- **Retreatment**
  - After default
  - After failure
  - Relapse
Option 2 – main case categories

First and recurrent episodes

**Confirmed**
- Culture-pos OR
- WRD-pos

**Probable**
- Smear-pos

**Possible**
- Others put on tx

**Treatment change**
- After interruption
- After failure
Option 3 – main case categories

First and recurrent episodes

**Confirmed**
- Culture-pos OR
- WRD-pos OR
- Smear-pos

**Not confirmed**
- Others put on tx

**Treatment change**
- After interruption
- After failure
Option 3 – sub categories

Confirmed:
- New
- Recurrence

Not confirmed:
- New
- Recurrence
## Confirmed + not confirmed subcategories

<table>
<thead>
<tr>
<th></th>
<th>0-4</th>
<th>5-14</th>
<th>15-49</th>
<th>50+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tested for HIV</strong></td>
<td><strong>HIV+</strong></td>
<td><strong>ART</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confirmed</td>
<td>Not confirmed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>--------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Complexity of case categories

<table>
<thead>
<tr>
<th></th>
<th>Core case categories</th>
<th>Core sub-categories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Option 1</strong></td>
<td>7</td>
<td>53</td>
</tr>
<tr>
<td><strong>Option 2</strong></td>
<td>5</td>
<td>37</td>
</tr>
<tr>
<td><strong>Option 3</strong></td>
<td>3</td>
<td>17</td>
</tr>
</tbody>
</table>
Option 2 – outcomes non-MDR

Cured
- Tx completed, no sign of active disease, smear neg at 5 months
  AND
- Did not require tx change due to clinical deterioration or lack of bacteriological success

Failed
- Signs of active disease OR smear-pos at 5 months
- Required tx change due to clinical deterioration or lack of bacteriological success

Interrupted
- Interruption > 2 months without medical approval

Died

Not evaluated
# Updated MDR definitions

<table>
<thead>
<tr>
<th>CONFIRMED MDR</th>
<th>PROBABLE MDR</th>
</tr>
</thead>
<tbody>
<tr>
<td>DST showing resistance to rifampicin and isoniazid</td>
<td>WRD-pos in a patient with high risk of harbouring MDR strains</td>
</tr>
</tbody>
</table>
Option 2 – outcomes MDR

- **Cured**
  - Tx completed, no sign of active disease, bacteriological success AND
  - did not require tx change due to clinical deterioration or lack of bacteriological success

- **Failed**
  - Signs of active disease or lack of bacteriological success OR
  - Required tx change due to clinical deterioration or lack of bacteriological success

- **Interrupted**
  - Interrruption > 2 months without medical approval

- **Died**

- **Not evaluated**
### Option 2 ... outcomes subcategories

<table>
<thead>
<tr>
<th>NON-MDR</th>
<th>MDR</th>
</tr>
</thead>
<tbody>
<tr>
<td>New episodes (incl. recurrences) vs treatment changed</td>
<td>XDR</td>
</tr>
<tr>
<td>HIV</td>
<td>HIV</td>
</tr>
<tr>
<td><em>Sex</em></td>
<td><em>Sex</em></td>
</tr>
<tr>
<td><em>Children</em></td>
<td><em>Children</em></td>
</tr>
</tbody>
</table>

* If case-based or patient-based electronic recording and reporting in place
## Complexity of treatment outcomes

<table>
<thead>
<tr>
<th></th>
<th>Core categories</th>
<th>Sub-categories (+ men, women, children)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Option 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>non-MDR</td>
<td>7</td>
<td>40 (58)</td>
</tr>
<tr>
<td>MDR</td>
<td>7</td>
<td>21 (42)</td>
</tr>
<tr>
<td><strong>Options 2, 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>non-MDR</td>
<td>5</td>
<td>15 (30)</td>
</tr>
<tr>
<td>MDR</td>
<td>5</td>
<td>15 (30)</td>
</tr>
</tbody>
</table>