## Figure S1: Ebolavirus Heat Map - Diagnostics available or needed for the key use cases

<table>
<thead>
<tr>
<th>Intended Use of Test (Use Case)</th>
<th>Facility-based testing and recommended diagnostic technology</th>
<th>Non-facility-based testing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ebola</strong></td>
<td><strong>Target Use Setting</strong></td>
<td></td>
</tr>
<tr>
<td>4. National Reference Lab</td>
<td>NAAT, PRNT, ELISA</td>
<td>NAAT, ELISA, POC NAAT, ELISA, RDT, RDT, RDT</td>
</tr>
<tr>
<td>3. Regional/Provincial Lab</td>
<td>NAAT, ELISA</td>
<td></td>
</tr>
<tr>
<td>2. District Hospitals</td>
<td>NAAT, PRNT, ELISA</td>
<td>NAAT, ELISA, POC NAAT, ELISA, RDT, RDT, RDT</td>
</tr>
<tr>
<td>1. Health Centers</td>
<td>NAAT, PRNT, ELISA</td>
<td>NAAT, ELISA, POC NAAT, ELISA, RDT, RDT, RDT</td>
</tr>
<tr>
<td>0. Health Posts, Field Settings</td>
<td>NAAT, PRNT, ELISA</td>
<td>NAAT, ELISA, POC NAAT, ELISA, RDT, RDT, RDT</td>
</tr>
</tbody>
</table>

### Non-outbreak setting

#### Surveillance

Diagnostics support syndromic surveillance systems (by adding specificity through diagnostic testing)

- NAAT, ELISA, sequencing
- NAAT, ELISA

- Not cost effective
- IgG, IgM, Ag ELISA
- ELISA more sensitive
- Multiple Ag RDTs
- Multiple Ag RDTs

#### Syndromic diagnosis

Clinical setting - detection of pathogen in syndromic case management (multiplex/panel diagnostics)

- PCR panels available
- PCR panels available
- In development

- IgM, Ag LDTs
- Multiple Ag RDTs
- Multiple Ag RDTs
- Multiple Ag RDTs

#### Case management

Confirmation of pathogen

- NAAT, sequencing, virus isolation
- NAAT, IgM, Ag ELISA

- In development
- IgG, IgM, Ag ELISA
- RDT screening only
- RDT screening only
- RDT screening only

### Outbreak setting

#### Case management

Diagnosis/confirmation of pathogen

- NAAT, sequencing, virus isolation
- NAAT, IgM, Ag ELISA

- In development
- IgG, IgM, Ag ELISA
- Multiple Ag RDTs
- Multiple Ag RDTs
- Multiple Ag RDTs

### Diagnostics stage legend:

- Platforms/tests available
- Lab/field trials ongoing or completed
- Under development
- Needed/needs improvement
- Not needed/not useful

1 Some NAAT/PCR tests may be region/strain specific; may require multiple tests or sequencing to ensure detection sensitivity
2 Requires regulatory approval (may only have emergency authorization for detection/diagnosis)
† IgG more often used for detection in convalescent or post-infection phase