### GEMS+ Network Performance

<table>
<thead>
<tr>
<th></th>
<th>Cambodia</th>
<th>Lao PDR</th>
<th>Myanmar</th>
<th>Vietnam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suspected cases tested</strong></td>
<td>9,749</td>
<td>151,003</td>
<td>228,236</td>
<td>59,369</td>
</tr>
<tr>
<td><strong>Confirmed positive cases</strong></td>
<td>126</td>
<td>533</td>
<td>3,385</td>
<td>315</td>
</tr>
<tr>
<td><strong>Positivity rate</strong></td>
<td>1.3%</td>
<td>0.5%</td>
<td>3.2%</td>
<td>0.5%</td>
</tr>
<tr>
<td><strong>Private outlets &amp; malaria workers transitioned to NMPs</strong></td>
<td>39</td>
<td>420</td>
<td>578</td>
<td>292</td>
</tr>
</tbody>
</table>

### GEMS+ Contribution to National Testing & Caseload Data

<table>
<thead>
<tr>
<th></th>
<th>Cambodia</th>
<th>Lao PDR</th>
<th>Myanmar</th>
<th>Vietnam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cases tested (national)</strong></td>
<td>628,691</td>
<td>2,065,282</td>
<td>7,561,430</td>
<td>4,437,716</td>
</tr>
<tr>
<td><strong>Proportion of total national tests reported by PSI private sector outlets &amp; malaria volunteers</strong></td>
<td><img src="#" alt="1.6%" /></td>
<td><img src="#" alt="7.3%" /></td>
<td><img src="#" alt="3.0%" /></td>
<td><img src="#" alt="1.3%" /></td>
</tr>
<tr>
<td><strong>Confirmed positive cases (national)</strong></td>
<td>7,897</td>
<td>9,807</td>
<td>241,467</td>
<td>2,306</td>
</tr>
<tr>
<td><strong>Proportion of total national caseload reported by PSI private sector outlets &amp; malaria volunteers</strong></td>
<td><img src="#" alt="1.6%" /></td>
<td><img src="#" alt="5.4%" /></td>
<td><img src="#" alt="1.4%" /></td>
<td><img src="#" alt="13.7%" /></td>
</tr>
</tbody>
</table>

---

1. National network performance data (testing, caseload, and positivity rate) updated to reflect published data; GEMS+ national contribution to testing and caseload data adjusted to in accordingly to national network performance updates.

Suspected Cases Tested with RDT by Channel

Confirmed Positive Cases by Channel

Reporting by Channel

Positive cases by Plasmodium species

Percentage of confirmed cases receiving first-line ACTs

1. The period of performance in Cambodia was January – September 2020.

2. Mobile Malaria Workers
**MALARIA SURVEILLANCE BULLETIN**

**LAO PDR | 2020-2022**

- **151,003** Suspected cases tested
- **533** Confirmed positive cases
- **0.5%** Average positivity rate
- **429** Private outlets enrolled in GEMS+ at project start
- **420** Outlets transitioned to NMP

### Suspected Cases Tested by Year

- **2020**: 61,124
- **2021**: 59,470
- **2022**: 30,409

### Distribution of Confirmed Positive Cases, by District and Facility

#### Reporting by Year

- **Number of facilities reporting**
  - 2020: 429
  - 2021: 330
  - 2022: 101

#### Positive cases by Plasmodium species

- **P.v. (62.7%)**
- **P.f. (35.6%)**
- **Mixed (1.7%)**

#### Quality of Case Management

- **100%** Suspected cases tested with RDT
- **96%** Cases treated or referred according to guidelines

#### Private outlets enrolled in GEMS+ at project start

- **2020**: 429
- **2021**: 420

#### Outlets transitioned to NMP

- **2020**: 61,124
- **2021**: 59,470
- **2022**: 30,409

#### Monthly positivity rate

- **Jan**: 1%
- **Feb**: 2%
- **Mar**: 3%
- **Apr**: 4%
- **May**: 5%
- **Jun**: 6%
- **Jul**: 7%
- **Aug**: 8%
- **Sep**: 9%
- **Oct**: 10%
- **Nov**: 11%
- **Dec**: 12%

**District Legend**

- 1-3 cases (6)
- 3-6 cases (11)
- 6-20 cases (3)
- 20+ cases (5)

**Facility Legend**

- 1-2 cases (25)
- 2-4 cases (19)
- 4-7 cases (11)
- 7+ cases (13)
MYANMAR | 2020 – 2022
MALARIA SURVEILLANCE BULLETIN

228,236 Suspected cases tested
3,385 Confirmed positive cases
1.5% Average positivity rate
808 Private outlets enrolled in GEMS+ at project start
551 Outlets transitioned to NMP

Suspected Cases Tested by Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Suspected Cases Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>80,334</td>
</tr>
<tr>
<td>2021</td>
<td>87,814</td>
</tr>
<tr>
<td>2022</td>
<td>60,088</td>
</tr>
</tbody>
</table>

Confirmed Positive Cases by Channel and by Year

<table>
<thead>
<tr>
<th>Channel</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUN</td>
<td>537</td>
<td>1,154</td>
<td>1,694</td>
</tr>
<tr>
<td>ICMV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private Outlets</td>
<td>1,154</td>
<td>1,694</td>
<td></td>
</tr>
<tr>
<td>CI</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reporting Rates by Channel

<table>
<thead>
<tr>
<th>Channel</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUN</td>
<td>55%</td>
<td>93%</td>
<td>85%</td>
</tr>
<tr>
<td>ICMV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private Outlets</td>
<td>93%</td>
<td>100%</td>
<td>96%</td>
</tr>
</tbody>
</table>

Positive Cases by Plasmodium Species

- P.v. (91.4%)
- P.f. (7.9%)
- Mixed (0.7%)

Quality of Case Management

- Percentage of confirmed positive cases treated according to guidelines:
  - SUN: 76%
  - ICMV: 100%
  - Private Outlets: 96%

1 Under Case Investigation (CI), PO and PSI field staff conducted RDT testing during CI activities in some townships under GEMS+
**MALARIA SURVEILLANCE BULLETIN**

**VIETNAM | 2020 – 2022**

**Suspected Cases Tested, by Year**

<table>
<thead>
<tr>
<th>Year</th>
<th>Suspected Cases</th>
<th>Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>45,045</td>
<td></td>
</tr>
<tr>
<td>2021</td>
<td>12,802</td>
<td>1,522</td>
</tr>
</tbody>
</table>

**Confirmed Positive Cases, Year Over Year Trend**

<table>
<thead>
<tr>
<th>Year</th>
<th>Confirmed Positive Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>268</td>
</tr>
<tr>
<td>2021</td>
<td>43</td>
</tr>
<tr>
<td>2022</td>
<td>4</td>
</tr>
</tbody>
</table>

**Quality of Case Management**

- **Suspected cases received blood tests:** 99.3%
- **Cases treated or referred according to guidelines:** 90.2%

**Reporting**

- **Average reporting rate:** 69%

**Positive cases by Plasmodium species**

- **P.v. (25%)**
- **P.f. (73%)**
- **Mixed (2%)**

**Client’s location 14 days prior to fever among confirmed positive cases**

- **Forest:** 0%
- **Village of Residence:** 20%
- **Plantation or Farm:** 80%
PROVIDER QUALITY OF CARE ASSESSMENTS FOR MALARIA CASE MANAGEMENT

Cambodia Quality of Care Score (Jan – Sept 2020)
- Worksite, 2020 Scores (n=160 MMWs assessed)
  - Class A (72%)
  - Class B (27%)
  - Class C (1%)

Lao PDR Quality of Care Score
- 2022 Network Scores (n=383 outlets assessed)
  - Class A (59%)
  - Class B (37%)
  - Class C (4%)

Myanmar Quality of Care Score by Channel and by Year
- Clinics, 2021 Scores (n=175 outlets assessed)
  - Class A (73%)
  - Class B (18%)
  - Class C (9%)
- Worksite, Monthly Trend
- Yearly Network Trend

Vietnam Quality of Care Score
- Clinics, 2021 Scores (n=175 outlets assessed)
- Clinics, Yearly Trend

GEMS+ | 2020 – 2022

PROVIDER QUALITY OF CARE ASSESSMENTS FOR MALARIA CASE MANAGEMENT

Class A: 100-90%
Class B: 89-80%
Class C: <80%
GEMS+ NETWORK TRANSITION TIMELINE

CAMBODIA
- Total outlets: 275
  - Transitioned: 83
  - Disassociated: 192

LAO PDR
- Total outlets: 483
  - Transitioned: 429
  - Disassociated: 54

MYANMAR
- Total outlets: 4216
  - Transitioned: 308
  - Disassociated: 3408

VIETNAM
- Total outlets: 828
  - Transitioned: 745
  - Disassociated: 83

Legend:
- Orange: Mobile Malaria Surveys (MMs) / Outlets currently part of the network
- Gray: Outlets disassociated from the network
- Green: Outlets transitioned to National Malaria Program (NMP)