## 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>Suspected cases tested</td>
<td>9,749</td>
<td>61,124</td>
<td>80,334</td>
<td>45,045</td>
</tr>
<tr>
<td>Confirmed positive cases</td>
<td>126</td>
<td>216</td>
<td>537</td>
<td>268</td>
</tr>
<tr>
<td>Positivity rate</td>
<td>1.3%</td>
<td>0.35%</td>
<td>0.67%</td>
<td>0.65%</td>
</tr>
<tr>
<td>Private sector service outlets &amp; malaria volunteers*</td>
<td>275</td>
<td>483</td>
<td>4216</td>
<td>828</td>
</tr>
</tbody>
</table>

## GEMS+ Contribution to National Testing & Caseload Data

<table>
<thead>
<tr>
<th></th>
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<th>Lao PDR</th>
<th>Myanmar</th>
<th>Vietnam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cases tested (national)</td>
<td>628,691</td>
<td>576,301</td>
<td>3,075,207</td>
<td>1,795,858</td>
</tr>
</tbody>
</table>

### Proportion of total national tests reported by PSI private sector outlets & malaria volunteers

- Cambodia: 1.6%
- Lao PDR: 10.6%
- Myanmar: 2.6%
- Vietnam: 2.5%

### Confirmed positive cases (national)

- Cambodia: 7,897
- Lao PDR: 3,496
- Myanmar: 46,372
- Vietnam: 1,442

### Proportion of total national caseload reported by PSI private sector outlets & malaria volunteers

- Cambodia: 1.6%
- Lao PDR: 6.2%
- Myanmar: 1.2%
- Vietnam: 18.6%

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* Network size decreased in 2020 across all four GEMS+ countries. Starting with 5,802 outlets in January, GEMS+ discontinued support to 3,891 outlets and transitioned 131 outlets National Malaria Program (NMP) oversight by year-end.

1. National testing and caseload numbers for Myanmar are preliminary from Jan–Nov 2020.
GEMS+ NETWORK TRANSITION TIMELINE

CAMBODIA

- 275 MMWs (JAN 2020)
- 192 (APR 2020)
- 39 transitioned (DEC 2020)

LAO PDR

- 483 outlets (JAN 2020)
- 429 outlets (APR 2020)
- 92 transitioned (DEC 2020)

MYANMAR

- 4216 outlets (JAN 2020)
- 3408 outlets (APR 2020)
- 20 outlets transitioned (DEC 2020)

VIETNAM

- 828 outlets (JAN 2020)
- 83 outletstransitioned (DEC 2020)
- 745 outlets (APR 2020)
- 90 outlets transitioned (DEC 2020)

Legend:
- Orange: Mobile Malaria Workers (MMWs) / Outlets currently part of the network
- Green: Outlets transitioned to National Malaria Program (NMP)
- Light blue: Outlets disassociated from the network

GEMS+ | JANUARY – DECEMBER 2020
**CAMBODIA | JANUARY – SEPTEMBER 2020**

**MALARIA SURVEILLANCE BULLETIN**

- **9,749** Suspected cases tested
- **126** Confirmed positive cases
- **1.3%** Average positivity rate
- **0** MMWs enrolled in GEMS+
- **39** MMWs transitioned to NMP

**Suspected Cases Tested with RDT by Channel**

**Confirmed Positive Cases by Channel**

**Reporting**

**Number of worksites and communities reporting**

**Quality of Case Management**

- **100%** Average reporting rate among worksites and communities

**Positive cases by plasmodium species**

- P.f. (71%)
- P.v. (89.7%)
- Mixed (3.2%)

**Percentage of confirmed cases receiving first-line ACTs**

**Legend**

- No. of positive cases
- Very low (0 - 0.1)
- Low (0.1 - 1.0)
- Low to medium (1.0-10.0)
- Medium (10.0-50.0)
- Medium to high (50.0-100.0)
- High (100.0-300.0)
- Very high (300.0+)

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

**Network size in Cambodia decreased in 2020. Starting with 275 Mobile Malaria Workers (MMWs) in January, GEMS+ discontinued support to 236 MMWs and transitioned 39 MMWs to National Malaria Program (NMP) oversight by year-end.**

0 referrals of confirmed positive cases due to ACT stock-out.
61,124 Suspected cases tested
216 Confirmed positive cases
0.35% Average positivity rate
337* Formal private outlets enrolled in GEMS+
92 Outlets transitioned to NMP

Suspected Cases Tested & Confirmed Positive Cases

Characteristics & Distribution of Confirmed Positive Cases

Positive cases detected by outlets

Confirmed Positive Cases

Reporting

Number of outlets reporting

Positive cases by Plasmodium species

Quality of Case Management

100% Suspected cases tested with RDT
98.6% Cases treated or referred according to guidelines

Legend
No. of positive

Very low: 0 - 3 (9)
Low: 1 - 2 (9)
Medium: 3 - 14 (14)
High: 15 - 29 (7)
Very high: 30 - 100 (2)

Cases treated or referred according to guidelines

Not pictured on the map: 1 case in Sayabouli district in the north.

*Network size in Lao PDR decreased in 2020. Starting with 483 private outlets in January, GEMS+ discontinued support to 54 outlets and transitioned 92 outlets to National Malaria Program (NMP) oversight by year-end.
**Suspected Cases Tested by Channel**

<table>
<thead>
<tr>
<th>Channel</th>
<th>Providers</th>
<th>Cases tested</th>
<th>Positive cases</th>
<th>Positivity rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUN</td>
<td>275</td>
<td>9,748</td>
<td>43</td>
<td>0.4%</td>
</tr>
<tr>
<td>Private Outlets (PO)</td>
<td>513</td>
<td>70,282</td>
<td>489</td>
<td>0.7%</td>
</tr>
<tr>
<td>CI</td>
<td>304</td>
<td>304</td>
<td>5</td>
<td>1.6%</td>
</tr>
</tbody>
</table>

**Confirmed Positive Cases by Channel**

- **Positive cases by Plasmodium species**
  - P.f. (14%)
  - P.v. (86%)
  - Mixed (0%)

**Characteristics of Confirmed Positive Cases**

- Reporting Rates by Channel
  - SUN: 59%
  - Private Outlets: 80%

**Quality of Case Management**

- Percentage of confirmed positive cases treated according to guidelines
  - SUN: 100%
  - Private Outlets: 99.8%
**VIETNAM | JANUARY – DECEMBER 2020**

**MALARIA SURVEILLANCE BULLETIN**

- **45,045** Suspected cases Tested
- **268** Confirmed positive cases
- **0.65%** Average positivity rate
- **655** Private outlets enrolled in GEMS+
- **655** Outlets transitioned to NMP

**Suspected Cases Tested & Confirmed Positive Cases**

- **Positive Cases**
- **Cases Tested**

**Characteristics & Distribution of Confirmed Positive Cases**

- **Positive cases by Plasmodium species**
  - P.f. (76%)
  - P.v. (23%)
  - Mixed (1%)

- **Positive cases detected by outlets**
  - Clinic
  - Community Event
  - Pharmacy
  - CMC

**Client’s location 14 days prior to fever among confirmed positive cases (n=226)**

- Forest (66%)
- Plantation or Farm (20%)
- Village of Residence (14%)

**Number of clinics reporting**

- **77%** Average reporting rate

**Quality of Case Management**

- **99%** Suspected cases received blood tests
- **91.8%** Cases treated or referred according to guidelines
- **47%** Treated according to guidelines at clinic
- **44.8%** Referred for treatment
- **8.2%** Not treated or referred according to guidelines

GEMS+ | JANUARY – DECEMBER 2020
PROVIDER QUALITY OF CARE ASSESSMENTS FOR MALARIA CASE MANAGEMENT

Cambodia Quality of Care Score (Jan – Sept)

Class A: 100-90%
Class B: 89-80%
Class C: <80%

Lao PDR Quality of Care Score

Myanmar Quality of Care Score

Vietnam Quality of Care Score

Class A: 100-90%
Class B: 89-80%
Class C: <80%

SUN (n=218 outlets assessed)

Private Outlets (PO) (n=508 providers assessed)

Clinics (n=175 outlets assessed)

Worksite (n=160 MMWs assessed)

PPMs (n=383 outlets assessed)

Myanmar Quality of Care Score

Vietnam Quality of Care Score