



National Center for HIV/AIDS Dermatology and STD

Quarterly report on the point of care for HIV viral load for pregnant and breastfeeding women and exposed infants using GeneXpert.

Quarter 1, 2026

1. Executive Summary

This report presents a comprehensive overview of the Point-of-Care Prevention of Mother-to-Child Transmission (POC-PMTCT) program's Early Infant Diagnosis (EID) and Viral Load (VL) Diagnostics activities for Quarter 1 (Q1) of 2026, covering the period from January 1, 2026, to March 31, 2026. Key performance indicators, including testing volumes, positivity rates, and turnaround times, are detailed, alongside a breakdown of results by testing line and site.

2. Early Infant Diagnosis (EID) Diagnostics

2.1. Overall Performance

- **Total Number of Tests:** 53 tests conducted.
- **Total Number of Unique Infants Tested:** 46 infants.
- **Positive Infants Identified:** 3.
- **Positivity Rate:** 5.66% of total tests.
- **Average Turnaround Time (TAT) for EID:** 13 Hours and 00 Minutes.

2.2. EID Results by Test Outcome

Result	Total of Test	Percentage (%)
Positive	6	11.32%
Negative	42	79.25%
Invalid	5	9.43%
Total	53	100.00%

Note: Invalid includes invalid, error, and no result.

2.3. Number of Infants by Result

Result	Total of Test	Percentage (%)
Positive	3	6.52%
Negative	42	91.30%
Invalid	1	2.17%
Total	46	100.00%

Note: Count unique patient ID by result.

2.4. EID Testing in Line Analysis

This section details the distribution of EID tests across different testing lines.

EID Testing Line	Number of Tests	Percentage (%)	Infants Tested (Unique ID)
PCR at birth	25	47.17%	24
PCR at 4-6 weeks	13	24.53%	12
PCR at 9 months	8	15.09%	7
Confirmatory PCR	3	5.66%	2
Other	4	7.55%	3
Total	53	100.00%	48

Note: Infants Tested (Unique ID) counts unique patient IDs at each testing line. Sum of unique IDs can exceed total infants due to multiple tests per infant.

2.5. EID Results by Testing Line (Positive, Negative, Invalid)

Testing in Line	Positive	Negative	Invalid
PCR at birth	2	22	1
PCR at 4-6 weeks	0	12	1
PCR at 9 months	0	7	1
Confirmatory PCR	3	0	0
Other	1	1	2

2.6. EID Testing by Site

A total of 52 EID tests were conducted across various sites:

Nº	Provincial/Referral Hospital Name	Number of Tests
1	Ang Rokar Referral Hospital	3
2	Cambodia-Japan Friendship Mongkul Borey Provincial Hospital	1
3	Kampong Cham Provincial Hospital	7
4	Kampong Speu Provincial Hospital	7
5	Kampong Trach Referral Hospital	4
6	Pailin Provincial Hospital	3
7	Poipet Referral Hospital	0
8	Preah Sihanouk Provincial Hospital	3
9	Rattanakiri Provincial Hospital	0
10	Sampov Loun Referral Hospital	0
11	Serey Sophorn Referral Hospital	3
12	Siem Reap Provincial Hospital	6
13	Stung Treng Provincial Hospital	3
14	Preah Norodom Sihanouk Tbong Khmum Referral Hospital	8
15	Thmor Kul Referral Hospital	2
16	Battambang PH	0

17	Kampong Chhnang PH	3
18	Koh Kong PH	0
19	Kratie PH	0
20	Oddor Meanchey PH	0
21	Prey Veng PH	0
22	Pursat PH	0
23	Svay Rieng PH	0

2.7. EID Testing Trend (Q1 2026)

Month	Test Count
January	16
February	16
March	21
Total of tests for Q1 2026	53

3. Viral Load (VL) Diagnostics

3.1. Overall Performance

- **Total Number of Tests:** 6 tests conducted.
- **Total Number of Pregnancy/Breastfeeding Tests:** 6.
- **Detected Pregnancy/Breastfeeding Cases:** 2.
- **Positivity Rate:** 33.33%.
- **Average Turnaround Time (TAT) for Pregnancy/Breastfeeding-VL:** 03 Hours and 50 Minutes.

3.2. Mother Testing by Result

Result	Number of Tests	Percentage (%)
VL: Detected \geq 1000 copies/mL	0	0.00%
VL: Detected \geq 40 – 999 copies/mL	2	33.33%
VL: Undetected <40 copies/mL	4	66.67%
Total	6	100.00%

Note: Invalid includes invalid, error, and no result.

3.3. Reason for Testing

Reason	Number of Test	Percentage (%)
Pregnancy	6	100.00%
Breastfeeding	0	0.00%
Total	6	100.00%

3.4. Number of Mother Testing by Site

A total of 11 VL tests were conducted for mothers across the following sites:

Nº	Provincial/Referral Hospital Name	Number of Tests
1	Ang ROKAR Referral Hospital	1
2	Cambodia-Japan Friendship Mongkul Borey Provincial Hospital	0
3	Kampong Cham Provincial Hospital	5
4	Kampong Speu Provincial Hospital	0
5	Kampong Trach Referral Hospital	0
6	Pailin Provincial Hospital	0
7	Poipet Referral Hospital	0
8	Preah Sihanouk Provincial Hospital	0
9	Rattanakiri Provincial Hospital	0
10	Sampov Loun Referral Hospital	0
11	Serey Sophorn Referral Hospital	0
12	Siem Reap Provincial Hospital	0
13	Stung Treng Provincial Hospital	0
14	Preah Norodom Sihanouk Tbong Khmum Referral Hospital	0
15	Thmor Kul Referral Hospital	0
16	Battambang PH	0
17	Kampong Chhnang PH	0
18	Koh Kong PH	0
19	Kratie PH	0
20	Oddor Meanchey PH	0
21	Prey Veng PH	0
22	Pursat PH	0
23	Svay Rieng PH	0

4. Conclusion

In Q1 2026, the POC-PMTCT program demonstrated strong operational performance, identifying **3 HIV-positive infants** out of **46 unique cases** tested. The program achieved a rapid average turnaround time of **13 hours** for Early Infant Diagnosis (EID) and an exceptional **3 hours and 50 minutes** for maternal Viral Load (VL) testing. While infant outcomes remain a primary focus, the **33.33% viral detection rate** among pregnant mothers (2 out of 6 tested) highlights a critical priority area for clinical management and adherence support. These results validate the efficiency of the GeneXpert point-of-care platform in providing the rapid diagnostics necessary to achieve the goal of eliminating mother-to-child HIV transmission.

Phnom Penh, Date: April 24, 2026

Seen and Approved
NCHADS Director

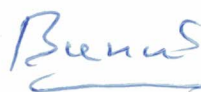
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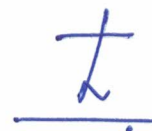
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