



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 2, 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 2 (Q2) of 2026, covering the period from April 1, 2026, to June 30, 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:** 105 tests conducted.
- **Total Number of Unique Infants Tested:** 96 infants.
- **Positive Infants Identified:** 2.
- **Positivity Rate:** 2.08% of total number of unique infants tested.
- **Average Turnaround Time (TAT) for EID:** 32 Hours and 57 Minutes.

2.2. EID Results by Test Outcome

Result	Total of Test	Percentage (%)
Positive	4	3.80%
Negative	101	96.20%
Invalid	0	0.00%
Total	105	100.00%

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

2.3. Number of Infants by Result

Result	Total of Test	Percentage (%)
Positive	2	2.08%
Negative	94	97.92%
Invalid	0	0.00%
Total	96	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	40	38.10%	40
PCR at 4-6 weeks	35	33.33%	34
PCR at 9 months	25	23.81%	25
Confirmatory PCR	2	1.90%	2
Other	3	2.86%	3
Total	105	100.00%	104

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	1	39	0
PCR at 4-6 weeks	0	35	0
PCR at 9 months	0	25	0
Confirmatory PCR	2	0	0
Other	1	2	0

2.6. EID Testing by Site

A total of 105 EID tests were conducted across various sites:

Nº	Provincial/Referral Hospital Name	Number of Tests
1	Ang ROKAR Referral Hospital	2
2	Cambodia-Japan Friendship Mongkul Borey Provincial Hospital	1
3	Kampong Cham Provincial Hospital	18
4	Kampong Speu Provincial Hospital	5
5	Kampong Trach Referral Hospital	6
6	Pailin Provincial Hospital	10
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	2
12	Siem Reap Provincial Hospital	15
13	Stung Treng Provincial Hospital	4
14	Preah Norodom Sihanouk Tbong Khmum Referral Hospital	6
15	Thmor Kul Referral Hospital	3
16	Battambang PH	20

17	Kampong Chhnang PH	7
18	Koh Kong PH	3
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 (Q2 2026)

Month	Test Count
January	24
February	39
March	42
Total of tests for Q2 2026	105

3. Viral Load (VL) Diagnostics

3.1. Overall Performance

- **Total Number of Tests:** 21 tests conducted.
- **Total Number of Pregnancy/Breastfeeding Tests:** 21.
- **Detected Pregnancy/Breastfeeding Cases:** 9.
- **Positivity Rate:** 42.86%.
- **Average Turnaround Time (TAT) for Pregnancy/Breastfeeding-VL:** 04 Hours and 30 Minutes.

3.2. Mother Testing by Result

Result	Number of Tests	Percentage (%)
VL: Detected $\geq$ 1000 copies/mL	8	38.10%
VL: Detected $\geq$ 40 – 999 copies/mL	1	4.76%
VL: Undetected <40 copies/mL	12	57.14%
Total	21	100.00%

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

3.3. Reason for Testing

Reason	Number of Test	Percentage (%)
Pregnancy	21	100.00%
Breastfeeding	0	0.00%
Total	21	100.00%

3.4. Number of Mother Testing by Site

A total of 21 VL tests were conducted for mothers across the following sites:

Nº	Provincial/Referral Hospital Name	Number of Tests
1	Ang ROKAR Referral Hospital	3
2	Cambodia-Japan Friendship Mongkul Borey Provincial Hospital	0
3	Kampong Cham Provincial Hospital	8
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	2
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	3
14	Preah Norodom Sihanouk Tbong Khmum Referral Hospital	1
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	4

4. Conclusion

In Q2 2026, the POC-PMTCT program demonstrated strong operational performance, identifying **2 HIV-positive infants (2.08%)** out of **96 unique cases** tested. The program achieved a rapid average turnaround time of **32 hours and 57 minutes** for Early Infant Diagnosis (EID) and an exceptional **4 hours and 30 minutes** for maternal Viral Load (VL) testing. While infant positivity remains low, the **42.86%** viral detection rate among pregnant mothers (9 out of 21 tested) highlights a critical priority area for clinical management and ART 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: July 23, 2026

Seen and Approved
NCHADS Director

Checked by

Verified by

Prepared by

Banna

Dr. Kim Bunna

Head of Technical Bureau

[Signature]

Dr. Kaoeun Chetra

Deputy Head of Technical Bureau

[Signature]

Mr. LY Sokny

B-IACM Officer

Assist. Prof. OUK VICHEA