

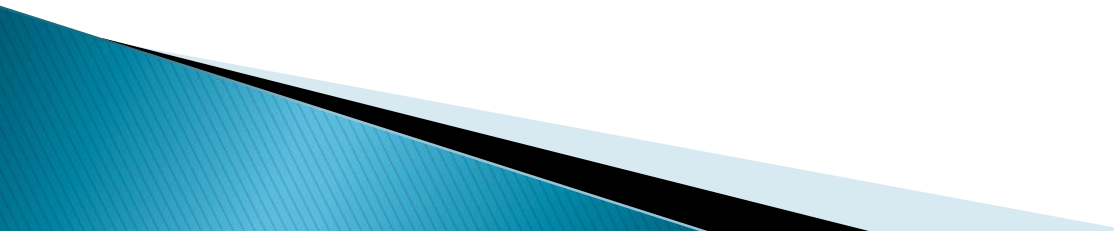
Delay in Early Infant Diagnosis (EID) and effects on HIV Exposed Children at Mt Hagen Hospital

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HIV/AIDS Services Coordinator-WHPHA*

AIM

TO EVALUATE THE CURRENT STATUS OF EID IN REGARDS TO THE
TURN ARROUND TIME OF DBS/PCR RESULTS FOR HIV EXPOSED
BABIES AT THE PAEDIATRICALS HIV CLINIC OF MT HAGEN GENERAL
HOSPITAL

BACKGROUND

- ▶ HIV PREVELENCE RATE FOR WHP IS 1.32 % (1)
 - ▶ WE HAVE OVER 7300 ADULTS AND CHILDREN ON ART IN WHP
 - ▶ 21 /39 HEALTH FACILITIES DOING HIV TESTING AT MCH CLINICS
 - ▶ TOTAL OF 13252 MOTHERS TESTED BETWEEN 2017 AND 2018
 - ▶ THERE WERE 251 /13252 MOTHERS TESTED POSITIVE (1.89%)
 - ▶ ARV PROPHYLAXIS TO EXPOSED BABIES IS GIVEN UP TO 6-12 WEEKS THEN 1ST DBS IS DONE
 - ▶ THEREFORE THIS STUDY WANTS TO LOOK AT THE MAGNITUDE OF DELAYS IN EID AND WHAT IMPLICATIONS IT WOULD HAVE FOR BABIES WHO ARE EXPOSED
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METHODS

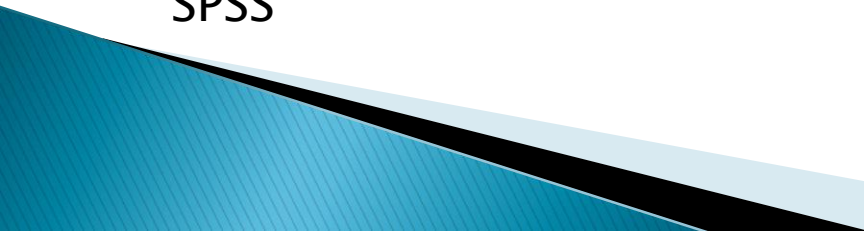
- **STUDY DESIGN:** RETROSPECTIVE DESCRIPTIVE STUDY

 - **STUDY PERIOD:** JANUARY 2017–DECEMBER 2018

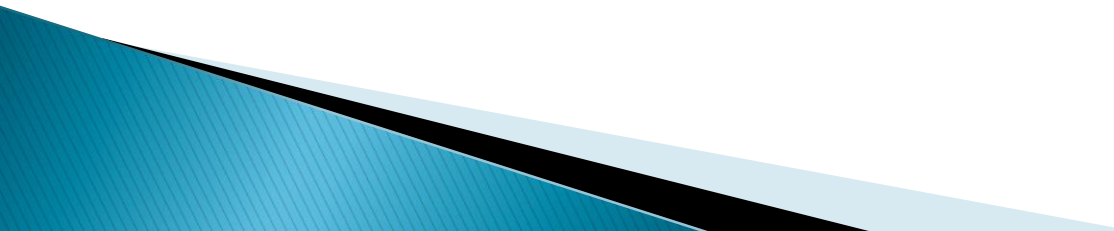
 - **STUDY GROUP/LOCATION:** ALL HIV EXPOSED BABIES REGISTERED AT HILLARY CLINIC, MT HAGEN HOSPITAL.

 - **EXCLUSION CRITERIA–**
 - ✓ THOSE WHO WERE ALREADY KNOWN POSITIVE THROUGH DBS/PCR FOR INITIATION OF ART
 - ✓ THOSE WHO DIED OR LTFU BEFORE COLLECTING DBS SAMPLES

 - **DATA COLLECTION METHODS**
 - ✓ BABIES' RECORD CHARTS, M&E REGISTER BOOKS AT PAEDIATRICS HIV CLINIC
 - ✓ HIV EXPOSED BABIES' DATA BASE

 - **DATA ENTERED INTO MICROSOFT EXCEL AND DATA ANALYSIS WITH SPSS**
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FACTORS ANALYSED

- ▶ ANTENATAL STATUS – BOOKED OR UNBOOKED
 - ✓ MOTHER'S HIV STATUS–THE TRIMESTER THEY WERE DETECTED HIV POSITIVE AND WHETHER THEY WERE PLHIV
 - ▶ PLACE OF DELIVERY–HEALTH FACILITY OR VILLIAGE
 - ▶ RETENTION AT CLINIC– LTFU, DEATHS, OR FAITH FULL AT CLINIC
 - ▶ TURN AROUND TIME FOR DBS RESULTS
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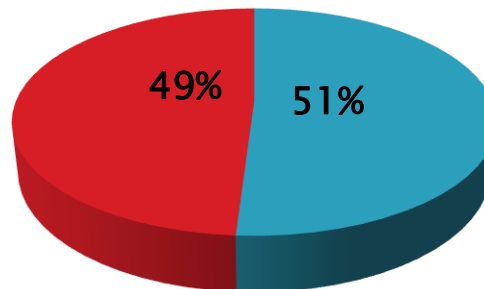
RESULTS

In this study 347 exposed babies from the last 2 years (2017 and 2018) were included with 205 and 142 babies in 2017 and 2018 respectively.

	FREQUENCY	PERCENT
2017	205	59.1
2018	142	40.9
TOTAL	347	100

GENDER DISTRIBUTION

177 ■ MALE ■ FEMALE 170



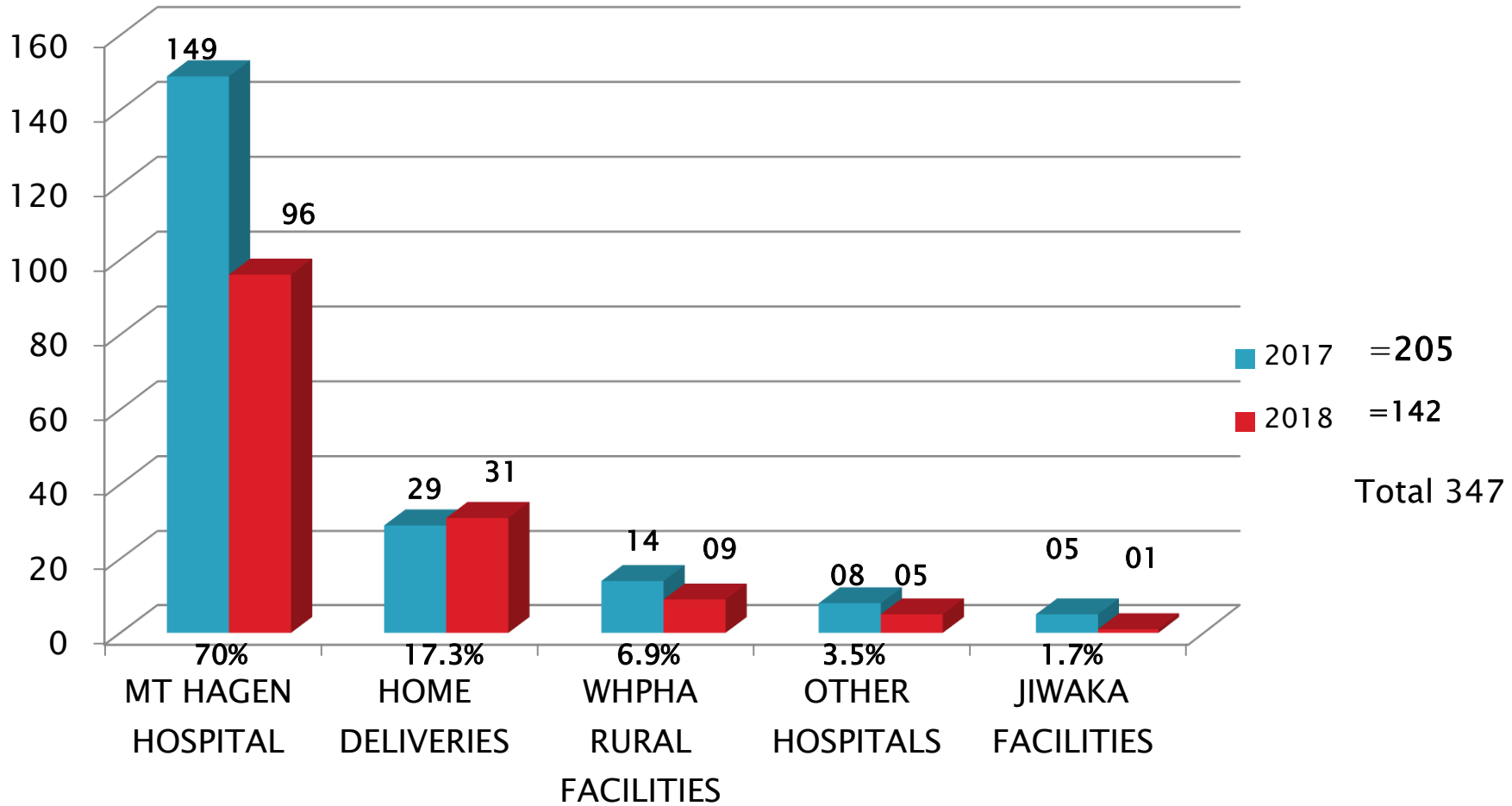
RESULTS

Mother's HIV status

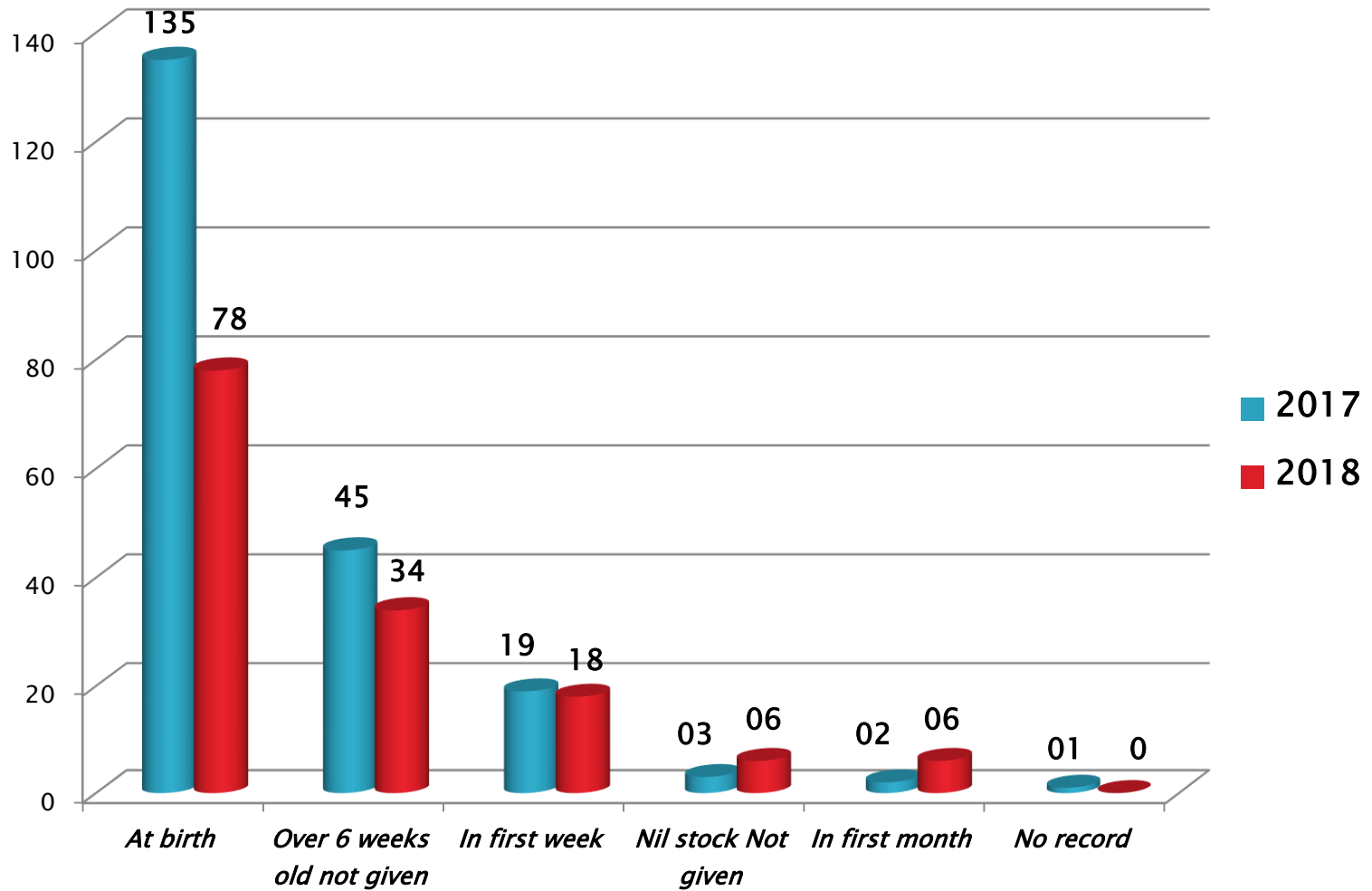
<i>MOTHER'S HIV STATUS</i>	<i>FREQUENCY</i>	<i>PERCENT</i>
Mother Known positive	189	54.5
First trimester pregnancy	25	7.2
Second trimester pregnancy	37	10.7
Third trimester pregnancy	34	9.8
In labor ward/at delivery	21	6.0
Soon after delivery (in first week)	5	1.4
Long after delivery (more than 1 week)	25	7.2
Mother on ART but defaulted	1	0.3
Missing Data	10	2.9
Total	347	100

RESULTS

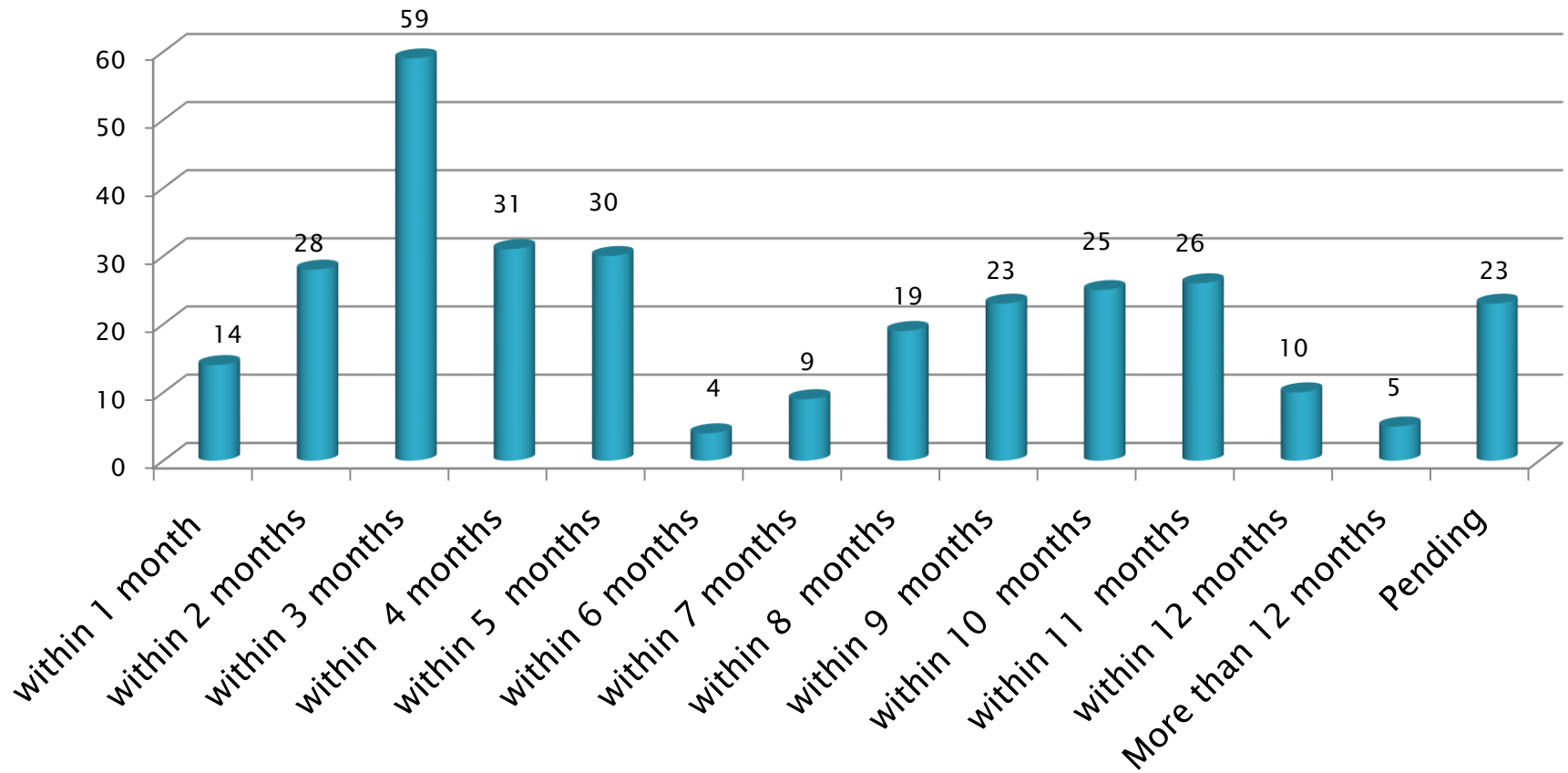
Place of Birth



Age ART prophylaxis given

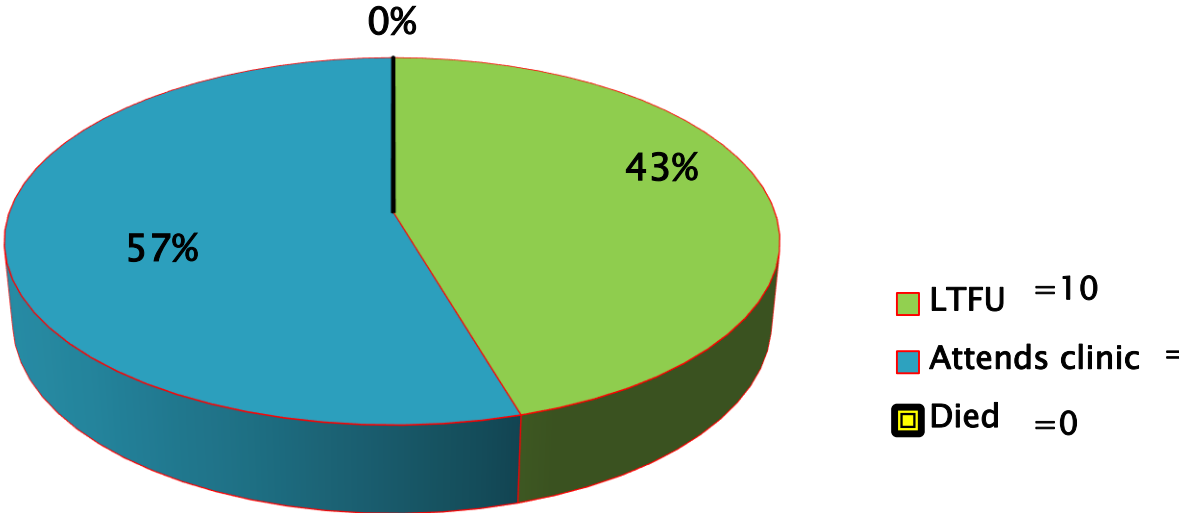


Turn around time for DBS/PCR results

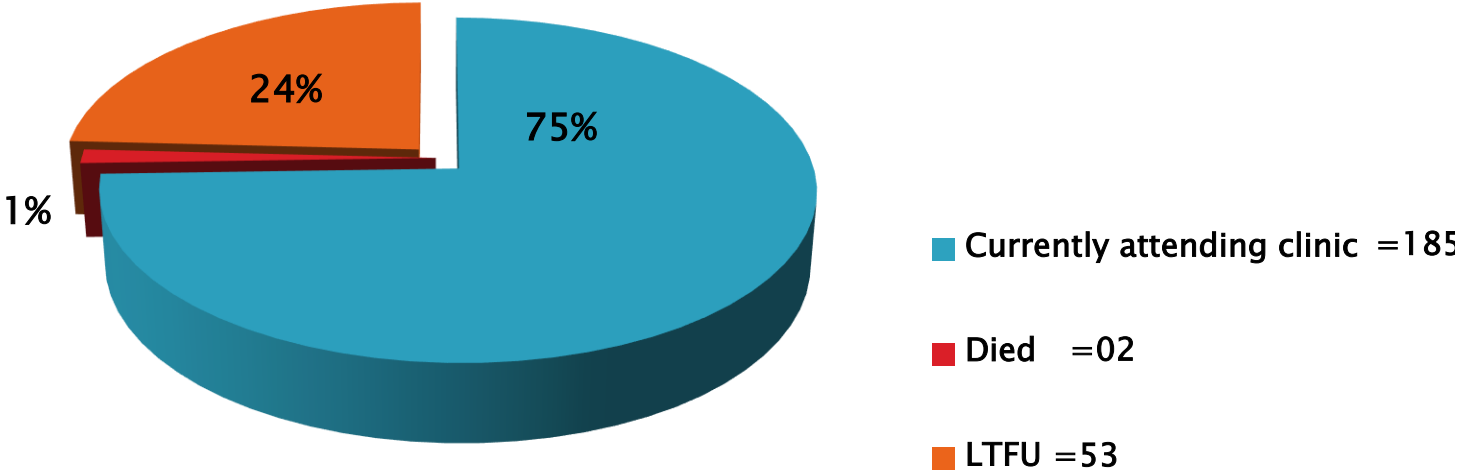


- ❖ **MINIMUM OF 2.6 WKS**
- ❖ **MAXIMUM OF WK 76.9**
- ❖ **MEDIAN = 20 WKS**
- ❖ **(IQR=12-41 WKS)**

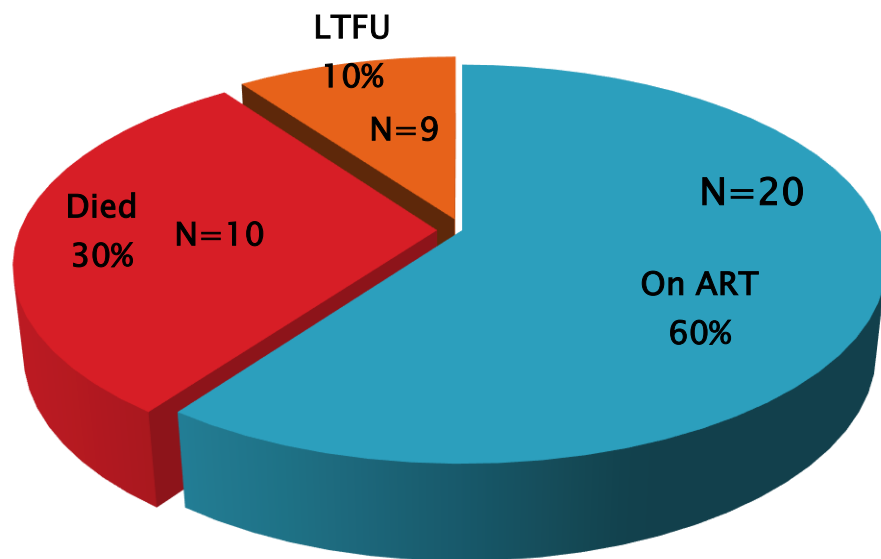
Status of baby with pending results =23



Status of baby with HIV negative result received =240

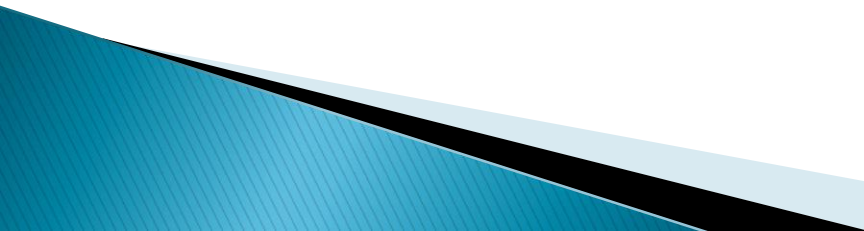


Status of baby with HIV +ve results received = 39



Of the results known, the HIV positivity rate is $39/306 = 12.7\%$

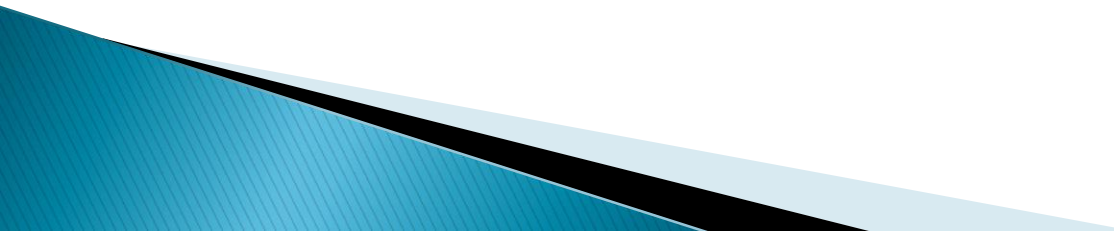
DISCUSSION

- ▶ EID helps care providers make timely decisions on the child's treatment plan.
 - ▶ EID relieves the infected and affected parents/ guardian socio economic burdens.
 - ▶ EID also Encourages mothers more on adherence to ART, attend antenatal clinics in future pregnancies and come for health facility delivery
 - ▶ Early detection and early treatment are the key components of the child's out come
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Conclusion

Therefore, to minimize longer turn around time, and improve child survival, Gene expert machine is recommended not only for our hospital but also other settings facing similar situations.

Recommendations

- Introduce gene expert testing at 6 weeks
 - Programs to improve on LTFU
 - Improve coverage of antenatal testing
 - Reconsider ART prophylaxis up until cessation breast feeding if the results are not known
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WESTERN HIGHLANDS PROVINCIAL HEALTH AUTHORITY
'HIV SERVICES'
HILLARY HAART CLINIC PRESENTS THIS CERTIFICATE TO

Elizah Danny



"AS A HEALTHY CHILD FREE OF HIV"

ON THIS FRIDAY 7TH SEPTEMBER, 2018

Mr. David Vorst

ACTING CHIEF EXECUTIVE OFFICER
WESTERN HIGHLANDS PROVINCIAL HEALTH AUTHORITY

Mr. Petrus Kombea

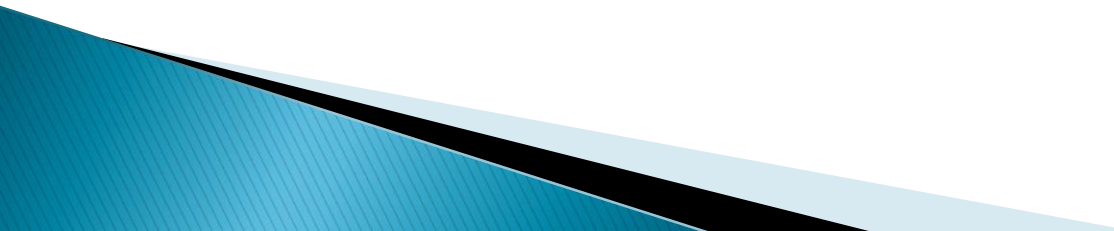
HIV/AIDS SERVICES COORDINATOR
WHPHA

A mother is the reason we live

Thank you



Acknowledgements

1. Dr. Paulus Ripa
 2. Dr Maddison Dat
 3. Sr. Ruth Tai –SIC, Hillary clinic
 4. Nurse Sharon Wai – Hillary clinic
 5. Sylvester Tei – Data entry clerk Hillary clinic
 6. Lucy John, Peer Educator–Hillary Clinic
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Reference

1. PNG National STI and HIV Strategic Plan 2018–2022
 2. Papua New Guinea National Guidelines for HIV care and Treatment–2017
 3. Data from Provincial Health Information office
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