



National Department of Health



HIV TESTING AND CHALLENGES IN PAPUA NEW GUINEA

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ACKNOWLEDGEMENTS

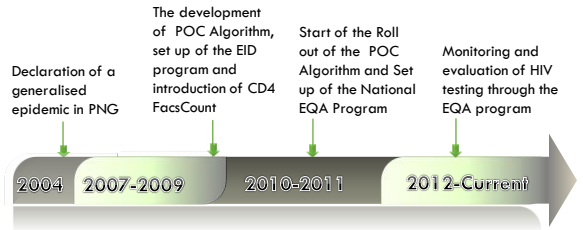
- | | |
|------------------|-------------------|
| CPHL QA LAB TEAM | CPHL HIV LAB TEAM |
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| | PRIYANKA DESAI |

PAPUA NEW GUINEA

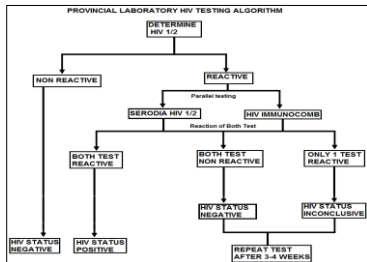


- Location – Largest Island in the Pacific, to the North of Australia
- Geography of PNG – rugged terrain, limited road access to most rural areas
- Population size – about 7 million, 87% live in Rural
- Current HIV prevalence rate – about 0.7

HIV TESTING TIME LINE

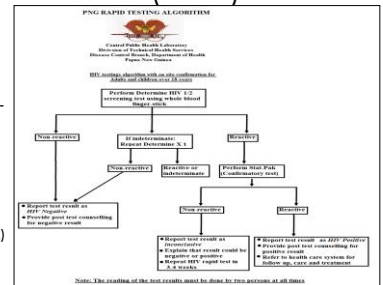


NATIONAL HIV LABORATORY ALGORITHM



- Provides more highly sensitive and specific test assay.
- Provide a reference for the POC 2 rapid test algorithm.
- Uses Lateral flow-immunochromatographic, particle agglutination and EIA method assay
- Needs to be reviewed

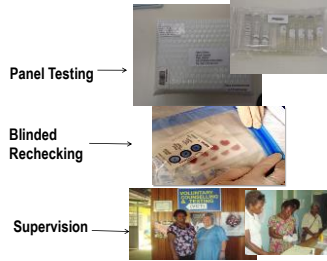
NATIONAL HIV POC ALGORITHM (2-TESTS)



- Provides readily accessible testing services
- Provides faster turn-around-time for results to patients
- Provides faster initiation of Treatment, if needed
- Provide better patient care
- Uses lateral flow-immunochromatography method(EIA)
- All benefits must occur with Quality Assured Testing

NATIONAL HIV EQA PROGRAM

Setup in 2010
Provided and Coordinated by CPHL
QA unit

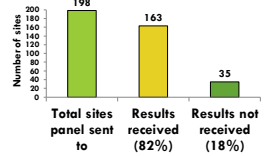


HIV SEROLOGY EXTERNAL QUALITY ASSURANCE PROGRAM PANEL TESTING

HIVSEQAP

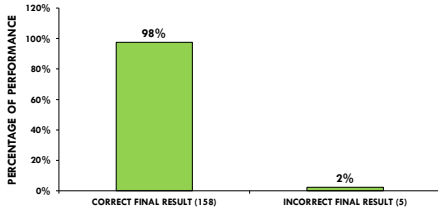
- Bi annual Program – 2 Trials
- First end of March and second end of October
- 3 panel of Dried serum samples +buffer
- One month testing period

Participation Panel Testing (2015, Trial 1)



HIV SEQAP OVERALL PERFORMANCE

Final Result (Trial 1, 2015)



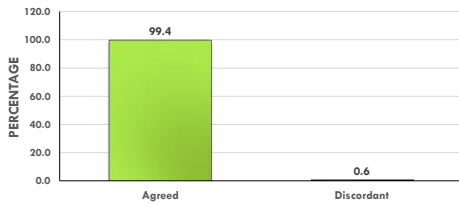
EQA-BLINED RETESTING-DRIED BLOOD SPOT

- DBS collected on every 20th client
- Retested by EIA method (Vironostika HIV Ag/Ab) Biomerieux
- 237 (54.6%) facilities are currently registered out of 434 trained sites
- 176 (84.6%) sites taking part in 2014 out of 208 registered sites
- Coverage by province is 90%

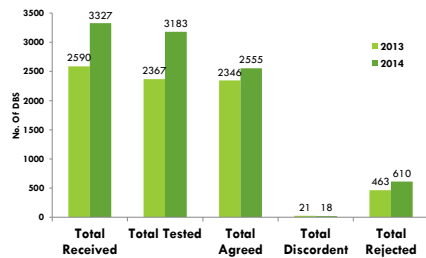


HIV EQA DBS PERFORMANCE

Overall Performance(%) 2012 -2015

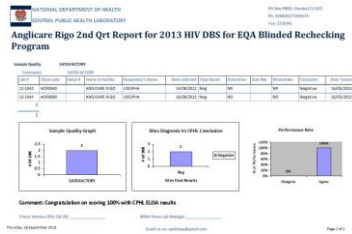


COMPARISON OF 2013&2014



SUPERVISION/CORRECTIVE ACTIONS

- Telephone Calls
- Quarterly Feedback Reports
- Training
- Supervisory visits



CHALLENGES IN HIV TESTING & QA MONITORING

- Monitoring and supervision especially to testing sites with discordant results
- Regular & consistent participation in the EQA programs by participating sites
- Maintaining a high standard in HIV Testing Training to maintain high quality results
- Increase in volume of DBS testing
- Increase in number of rejected samples received
- 237 (54.6%) facilities are currently participating out of 434 trained sites in HIV testing.
- Review of the Lab algorithm

CONCLUSION

- Panel testing** overall performance rate is **98%** with discordance of **2%**.
- DBS retesting** overall performance is **99.4%** with discordance of **0.6%**.
- The **PoCT** algorithm is just as **accurate and reliable** as the laboratory algorithm with great **emphasis on EQA participation and training**.
- Health care workers apart from lab personals can perform HIV rapid testing confirmation, with a high standard in training
- PoCT increases coverage and access** for HIV testing services and greatly **reduces the turnaround time** for HIV diagnosis, hence **faster referral for treatment and care**.

THANK YOU