PROVINCES IN PAPUA NEW GUINEA

TRANSMITTED HIV DRUG RESISTANCE SURVEY IN TWO PROVINCES IN PAPUA NEW GUINEA

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METHODS

Survey design:

Surveillance of transmitted HIV drug resistance (TDR) in individuals recently infected with HIV was performed following WHO-suggested methods in two regions between May 2013 and April 2014.

Population:

Port Moresby, National Capital District

Mt Hagen, Central Province

Survey population:

33 individuals were included from each region.

The number of specimens successfully genotyped was:

- 43/43 (100%) for Port Moresby
- 40/40 (100%) for Mt Hagen

Drug resistance levels:

Drug resistance mutations detected in 11/62 individuals (Port Moresby) and 10/61 individuals (Mt Hagen). Drug resistance levels were comparable to those of the original method were used to determine which mutations were present in each patient.

Table 1: Demographic details of survey population*

Table 1: Drug resistance mutations detected - Port Moresby

Table 2: Drug resistance mutations detected - Mt Hagen

Table 3: Drug resistance mutations detected - Mt Hagen

CONCLUSIONS

- NNRTI drug resistance detected in 11/62 individuals (Table 2 and Figure 3). NNRTI drug resistance mutations detected in 2 individuals. No PI resistance mutations were detected.

- NNRTI drug resistance levels were comparable to those of the original method.

- Drug resistance mutations were detected in 10/61 individuals (Port Moresby).

- Resistance classification:
  - NNRTI resistance mutations detected in 5 individuals.
  - NRTI resistance mutations detected in 6 individuals.
  - PI resistance mutations detected in 0 individuals.

- Resistant mutations:
  - NNRTI resistance mutations detected in 4 individuals.
  - NRTI resistance mutations detected in 2 individuals.
  - PI resistance mutations detected in 0 individuals.

- Drug resistance levels:
  - NNRTI resistance: Low
  - NRTI resistance: Low
  - PI resistance: Low

- Drug resistance mutations detected in 5/61 individuals (Mt Hagen). Table 3: Drug resistance mutations detected - Mt Hagen.

- Drug resistance levels:
  - NNRTI resistance: Low
  - NRTI resistance: Low
  - PI resistance: Low