# Variance analysis SOP

#### A: TX\_CURR VARIANCE:

## 1. TX\_CURR greater than expected TX\_CURR.

- 1.1 Flagg when % difference between TX\_CURR and expected TX\_CURR is > 5.
- 1.2 Select if the crude number is greater than 5.

### 2. TX\_CURR less than expected TX\_CURR.

- 2.1 Flagg when % difference between TX\_CURR and expected TX\_CURR is < -10
- 2.2 Select if the crude number is greater than 5.

#### Notes:

- > When several facilities flagged are too many, priority should be on Tier 1 and 2 facilities.
- Lower Tier (T3-5) facilities will be considered with T1 and 2 if their TX\_CURR are higher, hence they can impact the overall quality of data. (TX\_CURR > 200)
- Leave facility flagged if their absolute numbers are low (. i.e., a small change in numbers could change the direction of the flag.
- Expected TX\_CURR = TX\_CURR (previous quarter) + TX\_NEW (current quarter)+TX\_RTT(current quarter)-TX\_ML(current quarter)

# B: TX\_NET\_NEW

For all tiers flag all facilities with Negative TX\_NET\_NEW
Note: if facilities flagged are many, include for review by IP only facilities with TX\_NET\_NEW <-3</li>

# C: TV\_PVLS

#### 1. Low VLS

Flag if Viral Load Suppression is less than 80%

**Note:** VLS suppression = PVLS numerator current quarter / PVLS Denomenataro of the current quarter.

2. Low VLS

Flag if Viral loads coverage is less than 80%

Note: Viral Load Coverage = PVLS\_denominator of current quarter / TX\_CURR of Quarter before last quarter.

#### D: HTS\_TST VARIANCE:

1. Change in in HTS\_TST: Flag if change in HTS\_TST from the previous > 50% OR <- 25%

#### Notes:

For a flagged facility to be part of sites for review by IP, the following criteria should have been met:

- The facility should be Tier 1 or 2 and if the change in HTS\_TST is. (n>50)
- Lower Tiers (3 to 5) will be included in the change in HTS\_TST between quarters is (n>200)
- HTS\_TST change is the difference between the HTS\_TST of the current quarter and HTS\_TST of the previous quarter.
  - Eg. HTS\_TST change = HTS\_TST Q2 HTS\_TST Q1
- HTS\_TST percentage Change = (HTS\_TST Q2 HTS\_TST Q1)/HTS\_TST Q1

**3.** Low/High HTS Positivity: Flag if % HTS\_POS of the analyzed quarter > 20% OR <3% Notes:

For a flagged facility to be part of sites for review by IP, the following criteria should have been met:

- > The facility should be Tier 1 or 2 and they are not too small. (N>50)
- Lower Tiers (3 to 5) will be included if they have a relatively higher number (N>200) in one of the comparisons quarters.
- HTS Positivity is the percentage of clients who tested positive in that particular quarter. Eg. HTS Positivity = HTS\_POS Q2/HTS\_TST Q2
- 4. Change in HTS\_POS: Flag if a change in positivity from the previous quarter <-5% OR > 10%

#### Notes:

For a flagged facility to be part of sites for review by IP, the following criteria should have been met:

- The facility should be Tier 1 or 2 and the quarterly numbers tested in both quarters are not too small. (N>50)
- Lower Tiers (3 to 5) will be included if they have a relatively higher number (N>200) in one of the comparisons quarters.
- Change in HTS\_POS= HTS Positivity Q2 HTS Positivity Q1

#### E: INDEX\_TST VARIANCE:

5. Change in INDEX\_TST: Flag if change in INDEX \_TST > 50% OR <- 25%

#### Notes:

For a flagged facility to be part of sites for review by IP, the following criteria should have been met:

- The facility should be Tier 1 or 2 and the quarterly numbers tested in both quarters are not too small. (N>50)
- Lower Tiers (3 to 5) will be included if they have a relatively higher number (N>50) in one of the comparisons quarters.
- INDEX\_TST change is the difference between the INDEX\_TST of the current quarter and INDEX\_TST of the previous quarter.
  - Eg. INDEX\_TST change = INDEX\_TST Q2 INDEX\_TST Q1
- INDEX\_TST percentage Change = (INDEX\_TST Q2 INDEX\_TST Q1)/INDEX\_TST Q1

#### 6. Low/High INDEX\_POS: Flag if % HTS\_POS > 50% OR <10%

#### Notes:

For a flagged facility to be part of sites for review IP, the following criteria should have been met:

- > All facilities that have tested a large number of clients and they are not too small. (N>10)
- INDEX Positivity is the percentage of clients who tested positive in that particular quarter. Eg. INDEX Positivity = INDEX\_POS Q2/ (INDEX\_TST – INDEX\_KNOWNPOS) Q2

#### 7. Change in INDEX\_POS: Flag if change in positivity <-25% OR > 5%

#### Notes:

For a flagged facility to be part of sites for review by IP, the percentage change between two quarters should meet the flag category.

- > All facilities that have tested a large number of clients and they are not too small. (N>50)
- Change in INDEX\_POS= INDEX Positivity Q2 INDEX Positivity Q1