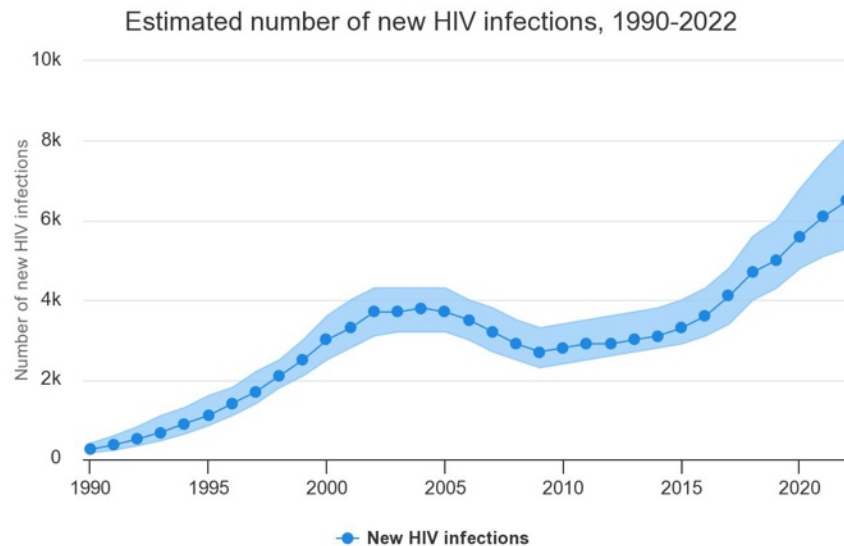


B4H HIV World AIDS Day 2023 Toolbox Session 1:



Maths HIV and the Epidemic in Papua New Guinea

Objective: To engage participants in a toolbox session that uses real HIV statistics from Papua New Guinea to learn terminology and to emphasise the seriousness and changes in the size of epidemic, promote interpretation of the data, and encourage action and awareness.

Materials: Whiteboard or flipchart, Markers, Handouts with statistics (provided below)
Calculators/phones

Duration: Approximately 45 minutes or broken into shorter 10-15-minute sessions for each activity

Session Outline:

Activity 1: Number of people living with HIV (PLHIV) (15 minutes)

Prompt: "Let's start by looking at the cumulative number of people living with HIV in PNG over the years. We have data from 2020 and 2022. Calculate the increase in HIV cases during this period."

The number of people living with HIV is not the same as prevalence. The prevalence of HIV in the adult population is expressed as a percentage. In 2023 it is estimated that the prevalence of HIV in the general community of adults is now over one percent. NOTE: PEOPLE living with HIV (PLHIV) is a number, Prevalence is a percentage.

Questions:

- What is the total number of people living with HIV in PNG in 2020?
- What is the total number of people living with HIV in PNG in 2022?
- Calculate the increase in HIV cases from 2020 to 2022.
- Interpret the significance of this increase.
- What are the implications for workplace when the national HIV prevalence is over 1%?

Take Home messages: Consider the reasons behind the increase in HIV cases and think about what actions can be taken to address this trend.



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If a business employs about 100 people, then all businesses need to assume they also have at least one colleague living and working with HIV.

Activity 2: Understanding Gender Disparities (10 minutes)

Prompt: "Now, let's examine gender disparities in HIV cases. Calculate the percentage of people living with HIV in 2022 who are women."

Questions:

- How many women are living with HIV in PNG in 2022? 41,000
- What percentage of the total HIV cases does this represent?
- What does this tell us about the epidemic's impact on women in PNG?
- How can HIV services better attract Men, Women, young men, young women?

Take Home Action Point: Ask your family members about the importance of gender-sensitive approaches to HIV prevention, care and access to sexual and reproductive health services for all members of your family.

Activity 3: Examining New Infections (10 minutes)

Prompt: "Next, let's look at the number of new HIV infections in 2020 and 2022. Calculate the increase in new infections during this period."

Questions:

- How many new HIV infections were reported in PNG in 2020?
- How many new HIV infections were reported in PNG in 2022?
- Calculate the increase in new HIV infections from 2020 to 2022.
- What implications does this increase have for public health efforts?

Take Home Action Point: Consider strategies to raise awareness about HIV prevention and testing in the community.

Activity 4: Assessing AIDS-Related Deaths (10 minutes)

Prompt: "Lastly, let's examine the number of AIDS-related deaths in 2020 and 2022. Calculate the increase in AIDS-related deaths during this period."

Questions:

- How many AIDS-related deaths were reported in PNG in 2020?
- How many AIDS-related deaths were reported in PNG in 2022?
- Calculate the increase in AIDS-related deaths from 2020 to 2022.
- What factors might have contributed to this increase?

Take Home Action Point: Reflect on the importance of early diagnosis and access to treatment in reducing AIDS-related deaths.

Concluding Discussion (15 minutes)

Prompt: "Based on our calculations and interpretations, what do these statistics tell us about the HIV epidemic in Papua New Guinea? What actions can we take to address the challenges posed by these numbers?"

Questions:

- What are the key take home messages from today's session?
- How can individuals and communities contribute to HIV prevention and support?
- What role can you play in raising awareness about PNG's HIV epidemic?

Take Home Action Point: Commit to spreading awareness about HIV prevention, testing, and support within your community.

Closing:

- Wear RED December 1, churches, sports teams, schools, workplaces can all prepare now...

REGISTER TO ATTEND the B4H HIV WORKSHOP OCTOBER 19. Free to current TB program participants



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1 December

END new HIV infections in PNG END AIDS

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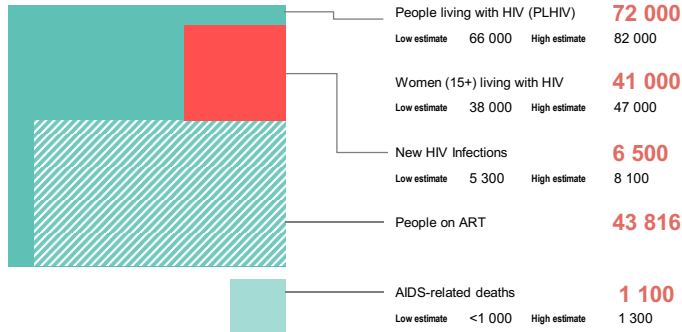
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SNAPSHOT 2023

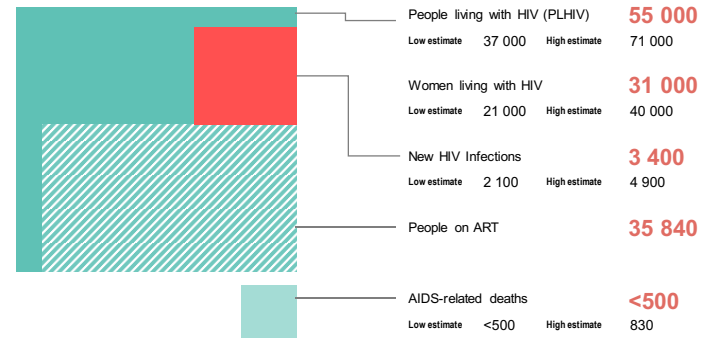
PAPUA NEW GUINEA



Source: Global AIDS Monitoring 2023 and UNAIDS 2023 HIV Estimates

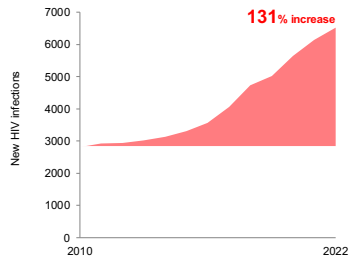
SNAPSHOT 2021

PAPUA NEW GUINEA



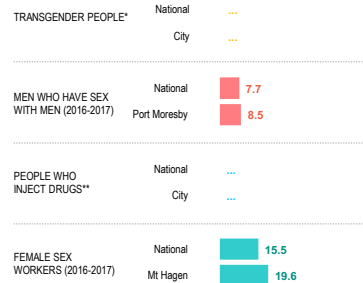
Source: Global AIDS Monitoring 2021 and UNAIDS 2021 HIV Estimates

New HIV infections trend



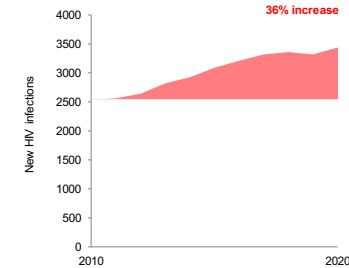
Source: UNAIDS 2023 HIV Estimates

HIV prevalence (%)



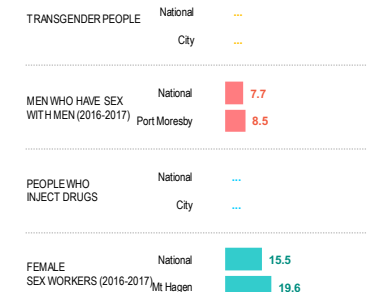
*TG data disaggregated from MSM data began in 2022 | **No documented PWID Source: Serological surveys and Global AIDS Monitoring Reporting

New HIV infections trend



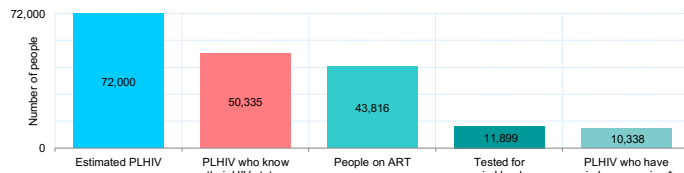
Source: UNAIDS 2021 HIV Estimates

HIV prevalence (%)



Source: Serological surveys and Global AIDS Monitoring Reporting

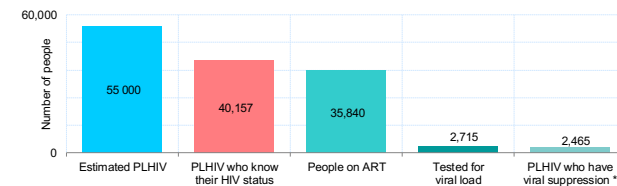
Treatment cascade, 2022



*Number of people on ART who received a viral load test in the past year and have viral load of <1000 copies/ml

Source: Global AIDS Monitoring 2023 and UNAIDS 2023 HIV Estimates

Treatment cascade, 2020



* Number of people on ART who received a viral load test in the past year and have viral load of <1000 copies/ml

Source: Global AIDS Monitoring 2021 and UNAIDS 2021 HIV Estimates