

From *Prevention in Focus*, Spring 2017



## Fast facts: Canada's HIV treatment cascade and HIV risk estimates

### Where is Canada in attaining the UNAIDS 90-90-90 targets?<sup>1</sup>

- **80%**: the percentage of people in Canada who know they are living with HIV
- **76%**: the percentage of people diagnosed with HIV who are taking HIV treatment (ART)
- **89%**: the percentage of people taking ART who have an undetectable viral load

### What is the risk of getting HIV?

Meta-analysis estimates of average per-act HIV transmission risk from different activities:<sup>2</sup>

- **1.4%**: estimated risk of an HIV-negative person getting HIV through receptive anal sex with an HIV-positive partner
- **0.11%**: estimated risk of an HIV-negative person getting HIV through insertive anal sex with an HIV-positive partner
- **0.08%**: estimated risk of an HIV-negative person getting HIV through receptive vaginal sex with an HIV-positive partner
- **0.04%**: estimated risk of an HIV-negative person getting HIV through insertive vaginal sex with an HIV-positive partner
- **0.63%**: estimated risk of an HIV-negative person getting HIV through sharing a needle with an HIV-positive person.

We now know that when a person with HIV is in regular care, on treatment and has an ongoing [undetectable viral load](#), the risk of transmitting HIV to sexual partners is negligible.

Estimates from the Public Health Agency of Canada tell us that HIV risk is concentrated in key populations:<sup>3</sup>

- **2.7x**: estimated likelihood of Aboriginal people getting HIV compared to non-aboriginal Canadians
- **6.4x**: estimated likelihood of Canadians born in an HIV-endemic country getting HIV compared to other Canadians
- **59x**: estimated likelihood of people who injects drugs getting HIV compared to people who do not inject drugs.
- **131x**: estimated likelihood of men who have sex with men getting HIV compared to other men.

### References

- <sup>1.</sup> *Summary: Measuring Canada's progress on the 90-90-90 HIV targets*. Government of Canada. 1 December 2016. Available from: <http://www.healthycanadians.gc.ca/publications/diseases-conditions-maladies-affections/hiv-90-90-90-vih/index-eng.php>
- <sup>2.</sup> Patel P, Borkowf CB, Brooks JT, et al. Estimating per-act HIV transmission risk: a systematic review. *AIDS*. 2014 Jun 19;29(10):1509-10.
- <sup>3.</sup> Yang Q, Ogunnaike-Cooke S, Halverson J, et al. *Estimated national HIV incidence rates among key sub-populations in Canada, 2014*.



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Production of this content has been made possible through a financial contribution from the Public Health Agency of Canada.

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