

Prevalence of COVID-19 infection and vaccine uptake among participants of the Ontario HIV Treatment Network Cohort Study (OCS)

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Introduction

- People living with HIV may experience a higher risk of severe COVID-19 outcomes due to higher rates of underlying health conditions which are associated with COVID-19 complications. (1,2)
- Aim: Describe SARS-CoV-2 infection and COVID-19 vaccine uptake among people living with HIV

1. Shiao, S., Krause, K. D., Valera, P., Swaminathan, S., & Halkitis, P. N. (2020). The Burden of COVID-19 in People Living with HIV: A Syndemic Perspective. *AIDS and behavior*, 24(8), 2244–2249. <https://doi.org/10.1007/s10461-020-02871-9>

2. HIV and COVID-19 Basics. (2022). Retrieved 22 April 2022, from https://www.cdc.gov/hiv/basics/covid-19.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fspecific-groups%2Fhiv.htm





COVID-19 Vaccine Uptake in Ontario (General Population)

- Vaccine uptake in Ontario (April 10, 2022).¹
 - 89.79% of people 18 and older in Ontario have received at least **two** doses
 - 91.88% of people 18 and older in Ontario have received at least **one** dose

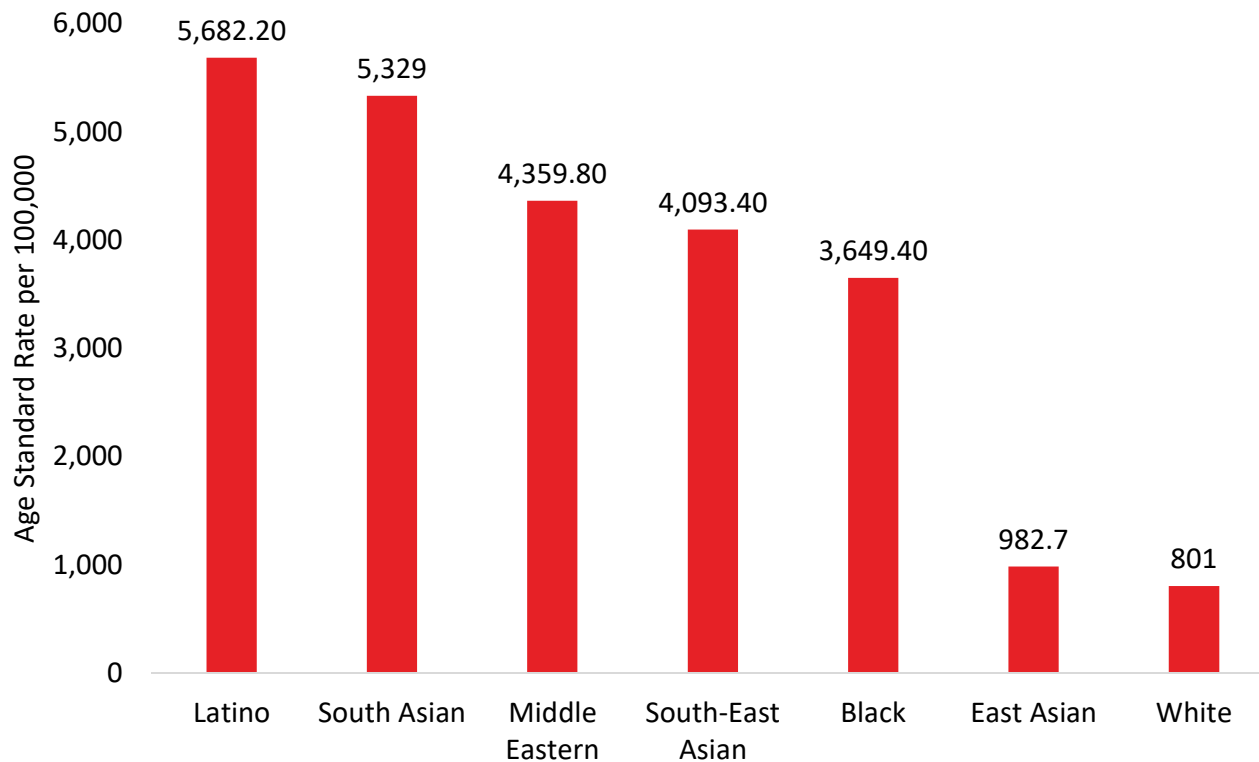
1. Public Health Agency of Canada. Canadian COVID-19 vaccination coverage report. Ottawa: Public Health Agency of Canada; April 19, 2022. <https://health-infobase.canada.ca/covid-19/vaccination-coverage/>





Racial Disparities of COVID-19 Infection in Ontario (General Population)

Confirmed Cases by Race in Ontario (June 26, 2020 to April 21, 2021)



Citation: Ontario Health. Tracking COVID-19 Through Race-Based Data. Toronto, ON: 2021. <https://www.ontariohealth.ca/sites/ontariohealth/files/2021-08/Tracking%20COVID%2019%20Through%20Race%20Based%20Data-EN.pdf>





The Ontario HIV Treatment Network Cohort Study (OCS)

- The Ontario HIV Treatment Network Cohort Study (OCS) is a community-driven, clinical cohort of over 4,000 active participants who receive care at 15 clinics in Ontario.
- In May 2020, a COVID-19-specific module was added to the interviewer-administered questionnaire





Results – COVID Testing and Infection

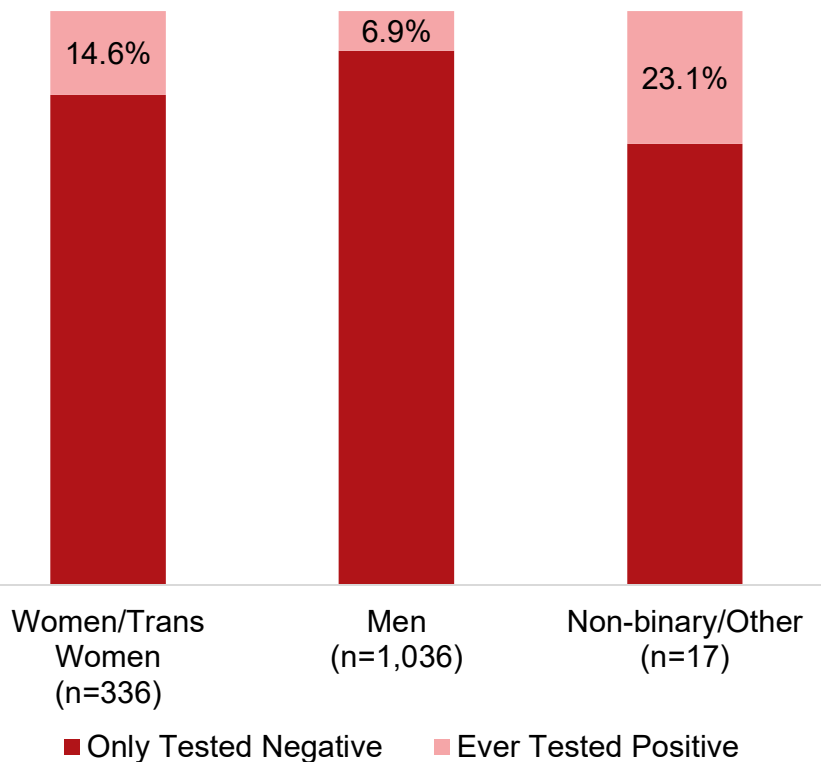
- 2,807 participants completed the COVID-19 module between May 2020 and December 2021
 - Women/ Transwomen: 637 (22%)
 - Men: 2,134 (76%)
 - Non-binary: 25 (0.9%)
 - White: 1,642 (58%)
 - Black: 602 (21%)
 - Indigenous: 130 (5%)
 - Latin American: 110 (4%)
 - East/South East Asian: 68 (2%)
 - Asian/West Arab: 30 (1%)
 - Multi-race: 53 (2%)
 - Unknown/Other: 71 (3%)
- 1,389 (49.4%) tested for COVID-19
- 124 (9%) reported having ever tested positive for COVID-19



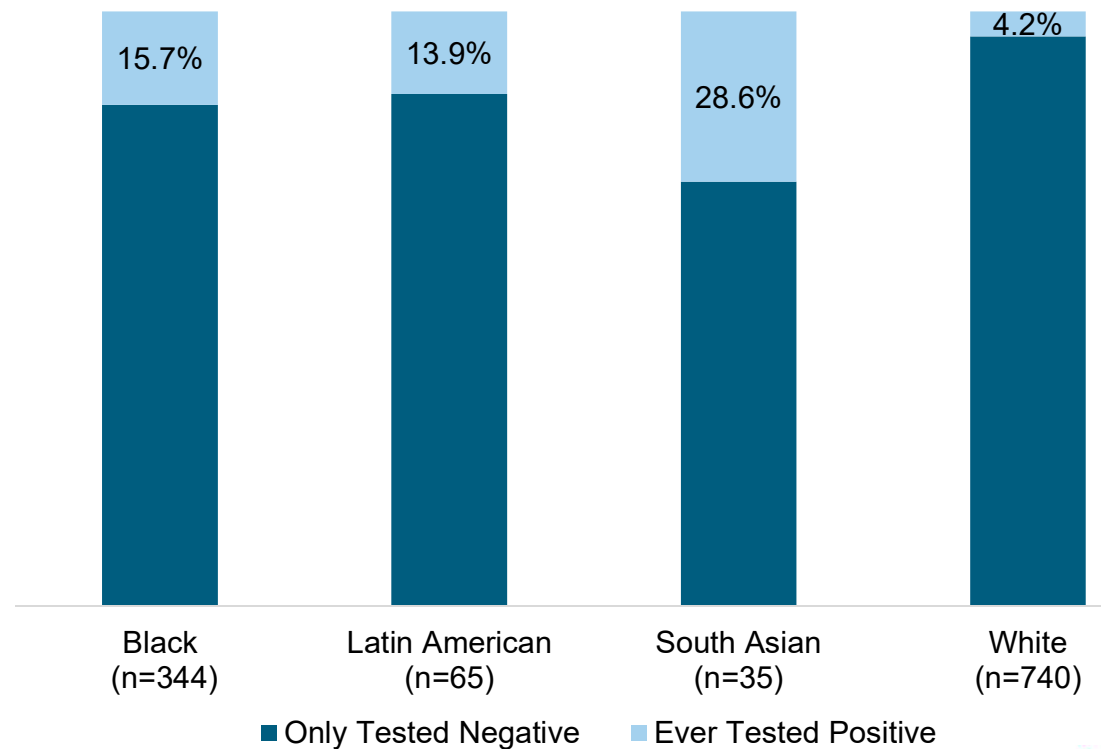


COVID-19 Test Results among OCS Participants (May 2020 – December 2021)

Covid-19 Test Results by Gender



Covid-19 Test Results by Race





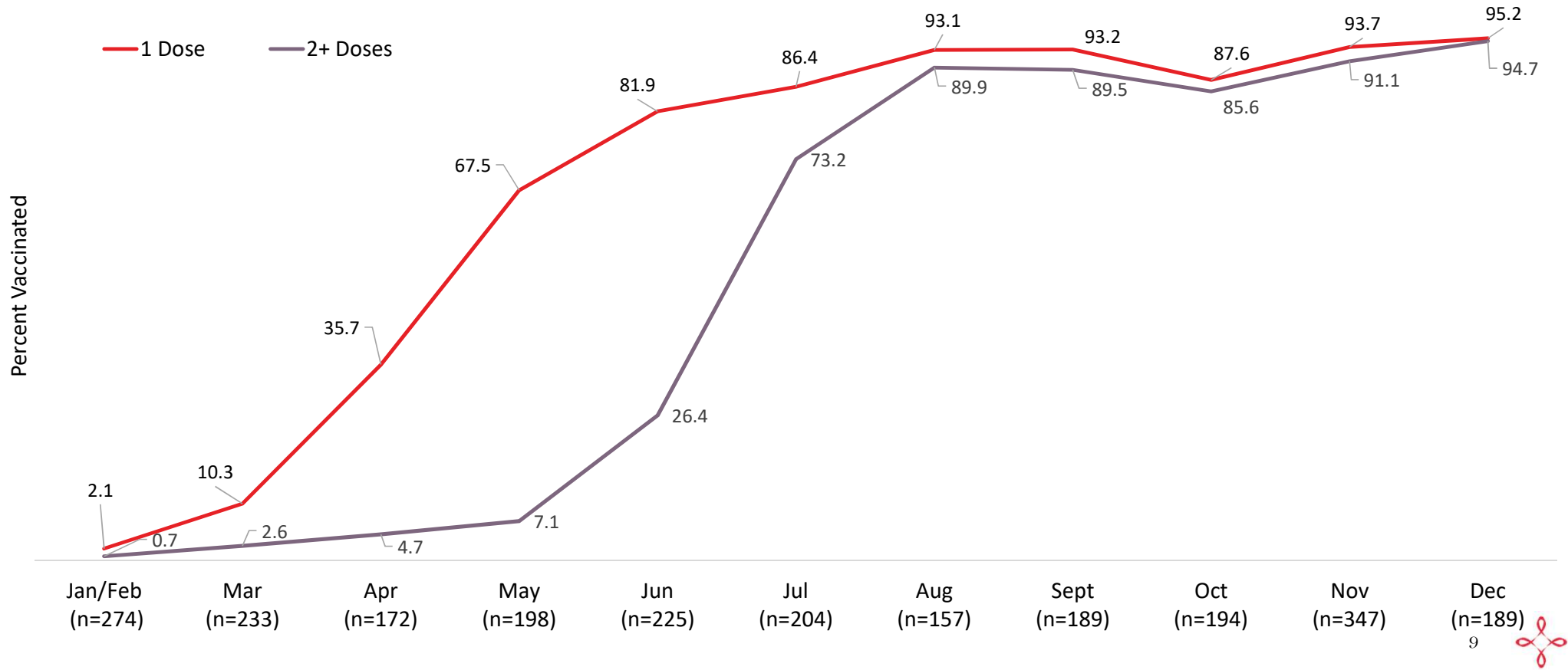
Results – Vaccine Uptake

- **2,382** participants were interviewed between January 2021 and December 2021
 - Women/Trans Women: 543 (23%)
 - Men: 1,809 (76%)
 - Non-binary: 25 (1%)
- White: 1,373 (58%)
- Black: 525 (22%)
- Indigenous: 119 (5%)
- Latin American: 95 (4%)
- East/South East Asian: 96 (4%)
- Asian/West Arab: 24 (1%)
- Multi-race: 47 (2%)
- Unknown/Other: 43 (2%)



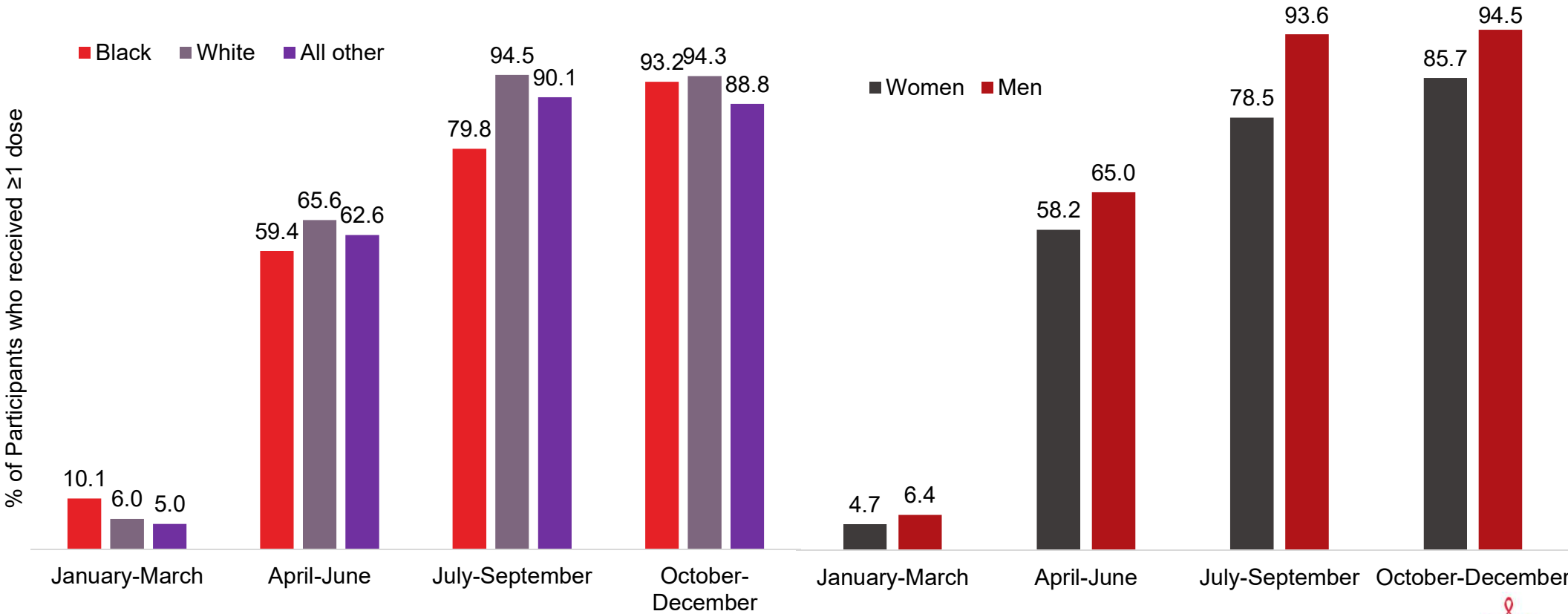


COVID-19 Vaccine Uptake Among OCS Participants (January to December 2021)





COVID-19 Vaccine Uptake Among OCS Participants (January to December 2021)





Conclusions

- Similar to the general population of Ontario, racial minorities living with HIV shoulder a disproportionate burden of COVID-19 infection
 - Previous analysis indicates that there are differences in occupational exposures among the cohort particularly from those in racialized communities
- Vaccine uptake among OCS participants not comparable to the general population of Ontario
 - Limited generalizability of the sample to the general population of Ontario (age distribution, co-morbidities, etc.)
 - People living with HIV may have more healthcare access/engagement than their counterparts not living with HIV.





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- OCS Indigenous Data Governance Circle: Jasmine Cotnam, Randy Jackson, Meghan Young, and Trevor Stratton
- OCS Scientific Steering Committee: Sergio Rueda, Ann Burchell, Barry Adam, David Brennan, Curtis Cooper, Trevor Hart, Adrian Betts, Mona Loutfy, Kelly O'Brien, Lawrence Mbuagbaw, Pierre Giguere, Anita Benoit, and Sean Hillier.
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