

HIV diagnoses in Ontario, 2020: Tables supplement



About OHESI

The Ontario HIV Epidemiology and Surveillance Initiative (OHESI) is a collaboration involving the AIDS and HepC Programs of the Ontario Ministry of Health (MOH), Public Health Ontario (PHO), the Public Health Agency of Canada (PHAC), and the Ontario HIV Treatment Network (OHTN) Applied Epidemiology Unit (AEU). The objectives of OHESI are to analyze, monitor and disseminate knowledge products on the epidemiology of HIV in Ontario. OHESI is a vital partnership that supports Ontario's ongoing ability to assess the impact of policy directions and HIV related program initiatives.

The success of the partnership would not be possible without the strategic, technical and resource contributions of all the partners. OHESI also receives ongoing advice from a community advisory committee: people working in the community-based HIV service sector and HIV clinics whose input helps ensure that OHESI reports and other products support collective efforts and impact in neighborhoods, communities and organizations across the province.

Background

In 2013-2014, the OHTN set up the Applied Epidemiology Unit (AEU), under a funding agreement with the MOH, to support ongoing production of epidemiological information to support Ontario's response to HIV.

In 2014-2015, the OHTN initiated the Ontario HIV Epidemiology and Surveillance Initiative (OHESI) and continues to provide administrative and technical support for the partnership.

Contact information

Applied Epidemiology Unit, Ontario HIV Treatment Network
1300 Yonge Street, Suite 600
Toronto, Ontario M4T 1X3
Phone: 416-642-6486
Email: OHESI@ohsn.on.ca
Website: www.OHESI.ca

Acknowledgements

We acknowledge the members of the OHESI Champions Committee for their review of this report.

OHESI Technical Working Group

Sean Colyer, OHTN
Abigail Kroch, OHTN
Maan Hasso, PHO
Juan Liu, PHO
Nashira Popovic, PHAC
Ashleigh Sullivan, PHO

OHESI Steering Committee Leads

Jean Bacon, OHTN
Laura Bourns, PHO
Joseph Cox, PHAC
Ken English, MOH
Joanne Lush, MOH
James Murray, MOH

Date of publication

August 22, 2022

Suggested citation

Ontario HIV Epidemiology and Surveillance Initiative. *HIV diagnoses in Ontario, 2020: Tables supplement*. Toronto, Ontario, August 22, 2022.

Table of Contents

About OHESI.....	2
Table of Contents.....	3
List of Tables	4
Overall	7
1. Overview	7
2. Overall by sex.....	9
3. Overall by HIV exposure category.....	13
4. Overall by race/ethnicity	15
5. Overall by age.....	18
6. Overall by health region.....	20
Priority Populations	25
7. Priority populations overview	25
8. Gay, bisexual, and other men who have sex with men (GBMSM).....	26
9. People who are African, Caribbean, or Black (ACB).....	30
10. People who use injection drugs (PWID).....	39
11. Indigenous Peoples	47
12. Women.....	54

List of Tables

Overall

1. Overview

Table 1.1 Positive HIV tests and first-time HIV diagnoses, Ontario, 1985 to 2020	7
---	---

2. Overall by sex

Table 2.1 Positive HIV tests and first-time HIV diagnoses, males, Ontario, 1985 to 2020.....	9
Table 2.2 Positive HIV tests and first-time HIV diagnoses, females, Ontario, 1985 to 2020	11

3. Overall by HIV exposure category

Table 3.1 First-time HIV diagnoses by HIV exposure category, overall, Ontario, 2016 to 2020.....	13
Table 3.2 First-time HIV diagnoses by HIV exposure category (where reported ²) and sex, Ontario, 2019 to 2020.....	13
Table 3.3 First-time HIV diagnoses by HIV exposure category, males, Ontario, 2016 to 2020.....	14
Table 3.4 First-time HIV diagnoses by HIV exposure category, females, Ontario, 2016 to 2020	14

4. Overall by race/ethnicity

Table 4.1 Number of first-time HIV diagnoses by race/ethnicity, overall and males, Ontario, 2016 to 2020.....	15
Table 4.2 Number of first-time HIV diagnoses by race/ethnicity, females, Ontario, 2016 to 2020.....	15
Table 4.3 Percent of first-time HIV diagnoses by race/ethnicity (where reported), overall and males, Ontario, 2016 to 2020	16
Table 4.4 Percent of first-time HIV diagnoses by race/ethnicity (where reported), females, Ontario, 2016 to 2020.....	16
Table 4.5 Positive HIV tests and first-time HIV diagnoses by race/ethnicity and sex, Ontario, 2019 to 2020.....	17

5. Overall by age

Table 5.1 Median age of first-time HIV diagnoses by sex, Ontario, 2011 to 2020	18
Table 5.2 First-time HIV diagnoses by age, Ontario, 2019 to 2020	18
Table 5.3 First-time HIV diagnoses by age, males, Ontario, 2019 to 2020.....	19
Table 5.4 First-time HIV diagnoses by age, females, Ontario, 2019 to 2020	19

6. Overall by health region

Table 6.1 Positive HIV tests and first-time HIV diagnoses by health region, overall, males, and females, Ontario, 2019.....	20
Table 6.2 Positive HIV tests and first-time HIV diagnoses by health region, overall, males, and females, Ontario, 2020.....	21
Table 6.3 First-time HIV diagnoses by health region, Ontario, 2016 to 2020.....	22
Table 6.4 First-time HIV diagnoses by health region, males, Ontario, 2016 to 2020	23
Table 6.5 First-time HIV diagnoses by health region, females, Ontario, 2016 to 2020	24

Priority Populations

7. Priority populations overview

Table 7.1 Positive HIV tests and first-time HIV diagnoses attributed to each priority population (not mutually exclusive), Ontario, 2019 to 2020	25
---	----

8. Gay, bisexual, and other men who have sex with men (GBMSM)

Table 8.1 Positive HIV tests and first-time HIV diagnoses, GBMSM, Ontario, 2011 to 2020	26
Table 8.2 First-time HIV diagnoses by HIV exposure category, GBMSM, Ontario, 2016 to 2020	26
Table 8.3 First-time HIV diagnoses by race/ethnicity, GBMSM, Ontario, 2016 to 2020	27
Table 8.4 First-time HIV diagnoses per 100,000 males by age, GBMSM, Ontario, 2019 to 2020	28
Table 8.5 First-time HIV diagnoses by health region, GBMSM, Ontario, 2016 to 2020	29

9. People who are African, Caribbean or Black (ACB)

Table 9.1 Positive HIV tests and first-time HIV diagnoses, ACB, Ontario, 2011 to 2020	30
Table 9.2 Positive HIV tests and first-time HIV diagnoses, ACB males, Ontario, 2011 to 2020	31
Table 9.3 Positive HIV tests and first-time HIV diagnoses, ACB females, Ontario, 2011 to 2020	32
Table 9.4 First-time HIV diagnoses by HIV exposure category, ACB, Ontario, 2016 to 2020	33
Table 9.5 First-time HIV diagnoses by HIV exposure category, ACB males, Ontario, 2016 to 2020	33
Table 9.6 First-time HIV diagnoses by HIV exposure category, ACB females, Ontario, 2016 to 2020	34
Table 9.7 First-time HIV diagnoses by age, ACB, Ontario, 2019 to 2020	35
Table 9.8 First-time HIV diagnoses by age, ACB males and ACB females, Ontario, 2019-2020	35
Table 9.9 First-time HIV diagnoses by health region, ACB, Ontario, 2016 to 2020	36
Table 9.10 First-time HIV diagnoses by health region, ACB males, Ontario, 2016 to 2020	37
Table 9.11 First-time HIV diagnoses by health region, ACB females, Ontario, 2015-2016 to 2019-2020	38

10. People who use injection drugs (PWID)

Table 10.1 Positive HIV tests and first-time HIV diagnoses, PWID, Ontario, 2011 to 2020	39
Table 10.2 First-time HIV diagnoses, male PWID, Ontario, 2011 to 2020	40
Table 10.3 First-time HIV diagnoses, female PWID, Ontario, 2011 to 2020	40
Table 10.4 First-time HIV diagnoses by HIV exposure category, PWID, Ontario, 2016 to 2020	41
Table 10.5 First-time HIV diagnoses by HIV exposure category, male PWID, Ontario, 2016 to 2020	41
Table 10.6 First-time HIV diagnoses by race/ethnicity, PWID, Ontario, 2016 to 2020	42
Table 10.7 First-time HIV diagnoses by race/ethnicity, male PWID, Ontario, 2015-2016 to 2019-2020	42
Table 10.8 First-time HIV diagnoses by race/ethnicity, female PWID, Ontario, 2015-2016 to 2019-2020	43
Table 10.9 First-time HIV diagnoses by age, PWID, Ontario, 2019-2020	44
Table 10.10 First-time HIV diagnoses by age, male PWID and female PWID, Ontario, 2018-2020	44
Table 10.11 First-time HIV diagnoses by health region, PWID, Ontario, 2016 to 2020	45
Table 10.12 First-time HIV diagnoses by health region, male PWID, Ontario, 2015-2016 to 2019-2020	46
Table 10.13 First-time HIV diagnoses by health region, female PWID, Ontario, 2015-2016 to 2019-2020	46

11. Indigenous Peoples

Table 11.1 Positive HIV tests and first-time HIV diagnoses, Indigenous Peoples, Ontario, 2011 to 2020	47
Table 11.2 Positive HIV tests and first-time HIV diagnoses, Indigenous males, Ontario, 2011 to 2020	48
Table 11.3 Positive HIV tests and first-time HIV diagnoses, Indigenous females, Ontario, 2011 to 2020	48
Table 11.4 First-time HIV diagnoses by HIV exposure category, Indigenous Peoples, Ontario, 2013-2016 to 2017-2020	49
Table 11.5 First-time HIV diagnoses by HIV exposure category, Indigenous males, Ontario, 2013-2016 to 2017-2020	49
Table 11.6 First-time HIV diagnoses by HIV exposure category, Indigenous females, Ontario, 2013-2016 to 2017-2020	50
Table 11.7 First-time HIV diagnoses by age, Indigenous Peoples, Ontario, 2016-2020	51
Table 11.8 First-time HIV diagnoses by age, Indigenous males and Indigenous females, Ontario, 2016-2020	51
Table 11.9 First-time HIV diagnoses by health region, Indigenous Peoples, Ontario, 2011-2015 to 2016-2020	52
Table 11.10 First-time HIV diagnoses by health region, Indigenous males, Ontario, 2011-2015 to 2016-2020	52
Table 11.11 First-time HIV diagnoses by health region, Indigenous females, Ontario, 2011-2015 to 2016-2020	53

12. Women

Table 12.1 Positive HIV tests and first-time HIV diagnoses, Women, Ontario, 2011 to 2020	54
Table 12.2 First-time HIV diagnoses by HIV exposure category, Women, Ontario, 2016 to 2020	55
Table 12.3 First-time HIV diagnoses by race/ethnicity, Women, Ontario, 2015 to 2019	55
Table 12.4 First-time HIV diagnoses per 100,000 females by age, Women, Ontario, 2019 to 2020	56
Table 12.5 Number and rate of first-time HIV diagnoses per 100,000 people by health region, Women, Ontario, 2016 to 2020	57
Table 12.6 First-time HIV diagnoses by health region, Women, Ontario, 2016 to 2020	58

Overall

I. Overview

Table I.1 Positive HIV tests and first-time HIV diagnoses, Ontario, 1985 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of all positive HIV tests that had previous evidence of HIV	Ontario population (all ages)	Rate of positive HIV tests per 100,000 population	Rate of first-time HIV diagnoses per 100,000 population
1985	335	-	-	-	9,294,657	3.6	-
1986	1362	-	-	-	9,437,359	14.4	-
1987	1543	-	-	-	9,637,945	16.0	-
1988	1442	-	-	-	9,838,620	14.7	-
1989	1699	-	-	-	10,103,305	16.8	-
1990	2049	-	-	-	10,295,832	19.9	-
1991	1805	-	-	-	10,431,316	17.3	-
1992	1768	-	-	-	10,572,205	16.7	-
1993	1465	-	-	-	10,690,038	13.7	-
1994	1286	-	-	-	10,819,146	11.9	-
1995	1294	-	-	-	10,950,119	11.8	-
1996	1120	1016	104	9.3%	11,082,903	10.1	9.2
1997	1384	872	512	37.0%	11,227,651	12.3	7.8
1998	986	864	122	12.4%	11,365,901	8.7	7.6
1999	887	801	86	9.7%	11,504,759	7.7	7.0
2000	860	759	101	11.7%	11,683,290	7.4	6.5
2001	949	835	114	12.0%	11,897,534	8.0	7.0
2002	1080	983	97	9.0%	12,094,174	8.9	8.1

2003	1031	938	93	9.0%	12,245,039	8.4	7.7
2004	1079	979	100	9.3%	12,391,421	8.7	7.9
2005	1018	934	84	8.3%	12,528,663	8.1	7.5
2006	1049	950	99	9.4%	12,661,878	8.3	7.5
2007	966	874	92	9.5%	12,764,806	7.6	6.8
2008	1025	938	87	8.5%	12,883,583	8.0	7.3
2009	910	814	96	10.5%	12,998,345	7.0	6.3
2010	935	844	91	9.7%	13,135,778	7.1	6.4
2011	941	834	107	11.4%	13,261,381	7.1	6.3
2012	820	707	113	13.8%	13,390,632	6.1	5.3
2013	753	666	87	11.6%	13,510,781	5.6	4.9
2014	796	696	100	12.6%	13,617,553	5.8	5.1
2015	798	686	112	14.0%	13,707,118	5.8	5.0
2016	829	716	113	13.6%	13,875,394	6.0	5.2
2017	854	697	157	18.4%	14,070,141	6.1	5.0
2018	939	738	201	21.4%	14,308,697	6.6	5.2
2019	922	683	239	25.9%	14,544,701	6.3	4.7
2020	661	515	146	22.1%	14,745,712	4.5	3.5

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021.

2. Overall by sex

Table 2.1 Positive HIV tests and first-time HIV diagnoses, males, Ontario, 1985 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of positive HIV tests that had previous evidence of HIV	Ontario population (females, all ages)	Rate of positive HIV tests per 100,000 population	Rate of first-time HIV diagnoses per 100,000 population	Percent of first-time HIV diagnoses that were in males
1985	326	-	-	-	4,593,427	7.1	-	-
1986	1,284	-	-	-	4,666,222	27.5	-	-
1987	1,459	-	-	-	4,770,058	30.6	-	-
1988	1,326	-	-	-	4,866,488	27.2	-	-
1989	1,536	-	-	-	4,993,432	30.8	-	-
1990	1,798	-	-	-	5,083,191	35.4	-	-
1991	1,529	-	-	-	5,160,771	29.6	-	-
1992	1,497	-	-	-	5,220,605	28.7	-	-
1993	1,230	-	-	-	5,274,868	23.3	-	-
1994	1,023	-	-	-	5,333,719	19.2	-	-
1995	1,044	-	-	-	5,394,885	19.4	-	-
1996	888	796	92	10.4%	5,459,182	16.3	14.6	83.0%
1997	1,099	659	440	40.0%	5,536,959	19.8	11.9	80.8%
1998	745	658	87	11.7%	5,605,148	13.3	11.7	80.0%
1999	694	632	62	8.9%	5,675,606	12.2	11.1	81.4%
2000	667	582	85	12.7%	5,768,259	11.6	10.1	78.3%
2001	695	613	82	11.8%	5,879,430	11.8	10.4	74.6%
2002	804	730	74	9.2%	5,977,136	13.5	12.2	75.2%
2003	750	680	70	9.3%	6,051,029	12.4	11.2	73.4%

2004	796	722	74	9.3%	6,121,459	13.0	11.8	74.1%
2005	772	712	60	7.8%	6,188,689	12.5	11.5	76.8%
2006	740	679	61	8.2%	6,251,923	11.8	10.9	71.9%
2007	742	674	68	9.2%	6,292,444	11.8	10.7	77.6%
2008	772	716	56	7.3%	6,341,968	12.2	11.3	76.8%
2009	703	636	67	9.5%	6,390,255	11.0	10.0	78.9%
2010	744	670	74	9.9%	6,453,206	11.5	10.4	80.7%
2011	732	658	74	10.1%	6,513,084	11.2	10.1	80.1%
2012	637	560	77	12.1%	6,581,938	9.7	8.5	79.7%
2013	617	555	62	10.0%	6,643,473	9.3	8.4	84.0%
2014	634	560	74	11.7%	6,698,984	9.5	8.4	81.2%
2015	636	557	79	12.4%	6,746,804	9.4	8.3	81.4%
2016	647	567	80	12.4%	6,835,845	9.5	8.3	80.1%
2017	669	569	100	14.9%	6,936,575	9.6	8.2	82.0%
2018	688	576	112	16.3%	7,062,361	9.7	8.2	78.3%
2019	668	514	154	23.1%	7,184,314	9.3	7.2	75.5%
2020	511	404	107	20.9%	7,283,995	7.0	5.5	79.4%

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses with unknown sex excluded (less than 1% of diagnoses per year from 2011 to 2020).

Table 2.2 Positive HIV tests and first-time HIV diagnoses, females, Ontario, 1985 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of positive HIV tests that had previous evidence of HIV	Ontario population (females, all ages)	Rate of positive HIV tests per 100,000 population	Rate of first-time HIV diagnoses per 100,000 population	Percent of first-time HIV diagnoses that were in females
1985	6	-	-	-	4,701,230	0.1	-	-
1986	27	-	-	-	4,771,137	0.6	-	-
1987	35	-	-	-	4,867,887	0.7	-	-
1988	86	-	-	-	4,972,132	1.7	-	-
1989	109	-	-	-	5,109,873	2.1	-	-
1990	158	-	-	-	5,212,641	3.0	-	-
1991	155	-	-	-	5,270,545	2.9	-	-
1992	156	-	-	-	5,351,600	2.9	-	-
1993	166	-	-	-	5,415,170	3.1	-	-
1994	205	-	-	-	5,485,427	3.7	-	-
1995	194	-	-	-	5,555,234	3.5	-	-
1996	172	163	9	5.2%	5,623,721	3.1	2.9	17.0%
1997	226	157	69	30.5%	5,690,692	4.0	2.8	19.2%
1998	198	164	34	17.2%	5,760,753	3.4	2.8	20.0%
1999	167	144	23	13.8%	5,829,153	2.9	2.5	18.6%
2000	176	161	15	8.5%	5,915,031	3.0	2.7	21.7%
2001	240	209	31	12.9%	6,018,104	4.0	3.5	25.4%
2002	263	241	22	8.4%	6,117,038	4.3	3.9	24.8%
2003	269	246	23	8.6%	6,194,010	4.3	4.0	26.6%
2004	278	252	26	9.4%	6,269,962	4.4	4.0	25.9%

2005	239	215	24	10.0%	6,339,974	3.8	3.4	23.2%
2006	303	265	38	12.5%	6,409,955	4.7	4.1	28.1%
2007	218	194	24	11.0%	6,472,362	3.4	3.0	22.4%
2008	247	216	31	12.6%	6,541,615	3.8	3.3	23.2%
2009	196	170	26	13.3%	6,608,090	3.0	2.6	21.1%
2010	177	160	17	9.6%	6,682,572	2.6	2.4	19.3%
2011	195	163	32	16.4%	6,748,297	2.9	2.4	19.9%
2012	179	143	36	20.1%	6,808,694	2.6	2.1	20.3%
2013	131	106	25	19.1%	6,867,308	1.9	1.5	16.0%
2014	156	130	26	16.7%	6,918,569	2.3	1.9	18.8%
2015	160	127	33	20.6%	6,960,314	2.3	1.8	18.6%
2016	173	141	32	18.5%	7,039,549	2.5	2.0	19.9%
2017	181	125	56	30.9%	7,133,566	2.5	1.8	18.0%
2018	248	160	88	35.5%	7,246,336	3.4	2.2	21.7%
2019	251	167	84	33.5%	7,360,387	3.4	2.3	24.5%
2020	143	105	38	26.6%	7,461,717	1.9	1.4	20.6%

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses with unknown sex excluded (less than 1% of diagnoses per year from 2011 to 2020).

3. Overall by HIV exposure category

Table 3.1 First-time HIV diagnoses by HIV exposure category, overall, Ontario, 2016 to 2020

Year	Male-to-male sexual contact + IDU	Male-to-male sexual contact	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	Other	No risk reported / unknown
Number							
2016	18	321	63	81	63	3	167
2017	15	338	46	89	57	2	150
2018	24	319	45	105	51	4	190
2019	23	283	40	75	63	1	198
2020	9	206	30	51	47	0	172
Percent (where reported¹)							
2016	3.3%	58.5%	11.5%	14.8%	11.5%	0.5%	-
2017	2.7%	61.8%	8.4%	16.3%	10.4%	0.4%	-
2018	4.4%	58.2%	8.2%	19.2%	9.3%	0.7%	-
2019	4.7%	58.4%	8.2%	15.5%	13.0%	0.2%	-
2020	2.6%	60.1%	8.7%	14.9%	13.7%	0.0%	-

Table 3.2 First-time HIV diagnoses by HIV exposure category (where reported²) and sex, Ontario, 2019 to 2020

HIV exposure category	Sex	2019		2020	
		Number	Percent	Number	Percent
Male-to-male sexual contact + IDU	Males	23	4.7%	9	2.6%
Male-to-male sexual contact	Males	283	58.4%	206	60.1%
Injection drug use (IDU)	Males	17	3.5%	15	4.4%
	Females	23	4.7%	15	4.4%
Heterosexual contact, identified risk	Males	22	4.5%	20	5.8%
	Females	53	10.9%	31	9.0%
Heterosexual contact, no identified risk	Males	39	8.0%	34	9.9%
	Females	24	4.9%	13	3.8%
Other	Females	1	0.2%	0	0.0%

Notes: Data provided by Public Health Ontario Laboratory. 1. Diagnoses where HIV exposure category was not reported were excluded (average of 26.6% of diagnoses per year). 2. Diagnoses where HIV exposure category was not reported were excluded (29.0% of diagnoses in 2019 and 33.4% in 2020).

Table 3.3 First-time HIV diagnoses by HIV exposure category, males, Ontario, 2016 to 2020

Year	Male-to-male sexual contact + IDU	Male-to-male sexual contact	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	Other	No risk reported / unknown
Number							
2016	18	321	34	33	44	2	115
2017	15	338	27	35	33	0	121
2018	24	319	24	36	28	3	142
2019	23	283	17	22	39	0	130
2020	9	206	15	20	34	0	120
Percent (where reported)							
2016	4.0%	71.0%	7.5%	7.3%	9.7%	0.4%	-
2017	3.3%	75.4%	6.0%	7.8%	7.4%	0.0%	-
2018	5.5%	73.5%	5.5%	8.3%	6.5%	0.7%	-
2019	6.0%	73.7%	4.4%	5.7%	10.2%	0.0%	-
2020	3.2%	72.5%	5.3%	7.0%	12.0%	0.0%	-

Table 3.4 First-time HIV diagnoses by HIV exposure category, females, Ontario, 2016 to 2020

Year	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	Other	No risk reported / unknown
Number					
2016	29	48	19	1	44
2017	19	54	24	1	27
2018	21	69	23	1	46
2019	23	53	24	1	66
2020	15	31	13	0	46
Percent (where reported)					
2016	29.9%	49.5%	19.6%	1.0%	-
2017	19.4%	55.1%	24.5%	1.0%	-
2018	18.4%	60.5%	20.2%	0.9%	-
2019	22.8%	52.5%	23.8%	1.0%	-
2020	25.4%	52.5%	22.0%	0.0%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where HIV exposure category was not reported were excluded (average of 24.2% of diagnoses per year among males and 33.0% of diagnoses per year among females).

4. Overall by race/ethnicity

Table 4.1 Number of first-time HIV diagnoses by race/ethnicity, overall and males, Ontario, 2016 to 2020

Year	White	Black	Indigenous	East / Southeast Asian	South Asian	Middle Eastern	Latino/a/e/x	Other / mixed	Not reported
Overall									
2016	245	96	19	35	19	15	35	9	243
2017	212	113	19	49	22	17	43	9	213
2018	229	148	11	50	16	13	48	17	206
2019	196	119	26	27	20	8	48	15	224
2020	121	77	17	29	16	10	40	15	190
Males									
2016	207	67	8	34	17	13	33	7	181
2017	183	66	15	44	20	17	41	7	176
2018	203	85	8	47	13	12	46	15	147
2019	175	66	15	26	19	8	47	13	145
2020	104	53	10	28	14	9	39	14	133

Table 4.2 Number of first-time HIV diagnoses by race/ethnicity, females, Ontario, 2016 to 2020

Year	White	Black	Indigenous	Other races / ethnicities	Not reported
Females					
2016	38	29	11	9	54
2017	28	47	4	11	35
2018	26	63	3	11	57
2019	21	53	11	5	77
2020	17	24	7	6	51

Notes: Data provided by Public Health Ontario Laboratory.

Table 4.3 Percent of first-time HIV diagnoses by race/ethnicity (where reported), overall and males, Ontario, 2016 to 2020

Year	White	Black	Indigenous	East / Southeast Asian	South Asian	Middle Eastern	Latino/a/e/x	Other / mixed
Overall								
2016	51.8%	20.3%	4.0%	7.4%	4.0%	3.2%	7.4%	1.9%
2017	43.8%	23.3%	3.9%	10.1%	4.5%	3.5%	8.9%	1.9%
2018	43.0%	27.8%	2.1%	9.4%	3.0%	2.4%	9.0%	3.2%
2019	42.7%	25.9%	5.7%	5.9%	4.4%	1.7%	10.5%	3.3%
2020	37.2%	23.7%	5.2%	8.9%	4.9%	3.1%	12.3%	4.6%
Males								
2016	53.6%	17.4%	2.1%	8.8%	4.4%	3.4%	8.5%	1.8%
2017	46.6%	16.8%	3.8%	11.2%	5.1%	4.3%	10.4%	1.8%
2018	47.3%	19.8%	1.9%	11.0%	3.0%	2.8%	10.7%	3.5%
2019	47.4%	17.9%	4.1%	7.0%	5.1%	2.2%	12.7%	3.5%
2020	38.4%	19.6%	3.7%	10.3%	5.2%	3.3%	14.4%	5.2%

Table 4.4 Percent of first-time HIV diagnoses by race/ethnicity (where reported), females, Ontario, 2016 to 2020

Year	White	Black	Indigenous	Other races / ethnicities
Females				
2016	43.7%	33.3%	12.6%	10.3%
2017	31.1%	52.2%	4.4%	12.2%
2018	25.2%	61.2%	2.9%	10.7%
2019	23.3%	58.9%	12.2%	5.6%
2020	31.5%	44.4%	13.0%	11.1%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where race/ethnicity was not reported were excluded (average of 32.4% of diagnoses per year overall, 29.9% of diagnoses per year among males, and 39.3% of diagnoses per year among females).

Table 4.5 Positive HIV tests and first-time HIV diagnoses by race/ethnicity and sex, Ontario, 2019 to 2020

Race/ethnicity	Sex	Number of positive HIV tests		Number of first-time HIV diagnoses		Number of positive HIV tests with previous evidence of HIV		Percent of positive HIV tests ¹		Percent of first-time HIV diagnoses ²	
		2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
White	Males	199	119	175	104	24	15	30.8%	26.7%	27.0%	23.3%
	Females	24	21	21	17	3	4	3.7%	4.7%	3.2%	3.8%
Black	Males	108	88	66	53	42	35	16.7%	19.7%	10.2%	11.9%
	Females	119	45	53	24	66	21	18.4%	10.1%	8.2%	5.4%
Indigenous	Males	16	11	15	10	1	1	2.5%	2.5%	2.3%	2.2%
	Females	13	8	11	7	2	1	2.0%	1.8%	1.7%	1.6%
East/Southeast Asian	Males	35	35	26	28	9	7	5.4%	7.8%	4.0%	6.3%
	Females	2	4	1	1	1	3	0.3%	0.9%	0.2%	0.2%
South Asian	Males	27	23	19	14	8	9	4.2%	5.2%	2.9%	3.1%
	Females	3	3	1	2	2	1	0.5%	0.7%	0.2%	0.4%
Middle Eastern	Males	11	16	8	9	3	7	1.7%	3.6%	1.2%	2.0%
	Females	0	1	0	1	0	0	0.0%	0.2%	0.0%	0.2%
Latino/a/e/x	Males	72	53	47	39	25	14	11.1%	11.9%	7.3%	8.7%
	Females	1	3	1	1	0	2	0.2%	0.7%	0.2%	0.2%
Other/mixed	Males	15	15	13	14	2	1	2.3%	3.4%	2.0%	3.1%
	Females	2	1	2	1	0	0	0.3%	0.2%	0.3%	0.2%
Not reported	Males	185	151	145	133	40	18	-	-	-	-
	Females	87	57	77	51	10	6	-	-	-	-

Notes: Data provided by Public Health Ontario Laboratory. 1. Positive HIV tests where race/ethnicity was not reported were excluded (29.6% of tests in 2019, 31.8% in 2020). 2. Diagnoses where race/ethnicity was not reported were excluded (32.6% of diagnoses in 2019, 36.1% in 2020).

5. Overall by age

Table 5.1 Median age of first-time HIV diagnoses by sex, Ontario, 2011 to 2020

Year	Males	Females
2011	37.0	35.0
2012	37.0	34.0
2013	36.5	35.5
2014	34.0	37.0
2015	35.0	37.0
2016	35.0	37.0
2017	35.0	35.0
2018	34.0	37.5
2019	34.0	36.5
2020	34.0	36.0

Table 5.2 First-time HIV diagnoses by age, Ontario, 2019 to 2020

Age group	Number		Percent		Ontario population		Rate per 100,000	
	2019	2020	2019	2020	2019	2020	2019	2020
<15	5	0	0.7%	0.0%	2,271,051	2,280,558	0.2	0.0
15-19	15	5	2.2%	1.0%	859,994	853,123	1.7	0.6
20-24	59	53	8.7%	10.3%	1,031,146	1,037,535	5.7	5.1
25-29	136	97	19.9%	18.8%	1,046,240	1,075,963	13.0	9.0
30-34	125	105	18.3%	20.4%	1,007,208	1,042,725	12.4	10.1
35-39	89	69	13.0%	13.4%	963,777	993,601	9.2	6.9
40-44	55	48	8.1%	9.3%	913,425	922,080	6.0	5.2
45-49	67	41	9.8%	8.0%	940,366	932,882	7.1	4.4
50-54	49	36	7.2%	7.0%	991,714	969,506	4.9	3.7
55-59	46	22	6.7%	4.3%	1,068,817	1,074,362	4.3	2.0
60-64	17	21	2.5%	4.1%	938,589	962,276	1.8	2.2
65-69	10	5	1.5%	1.0%	779,167	804,800	1.3	0.6
70+	9	13	1.3%	2.5%	1,733,207	1,796,301	0.5	0.7

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses with sex and age not reported were excluded (less than 1%).

Table 5.3 First-time HIV diagnoses by age, males, Ontario, 2019 to 2020

Age group	Number		Percent		Ontario population		Rate per 100,000	
	2019	2020	2019	2020	2019	2020	2019	2020
<15	1	0	0.2%	0.0%	1,159,597	1,164,714	0.1	0.0
15-19	11	4	2.1%	1.0%	441,464	436,920	2.5	0.9
20-24	47	45	9.1%	11.1%	540,009	541,758	8.7	8.3
25-29	110	77	21.4%	19.1%	538,840	554,970	20.4	13.9
30-34	99	85	19.3%	21.0%	508,062	527,454	19.5	16.1
35-39	61	50	11.9%	12.4%	475,890	493,698	12.8	10.1
40-44	32	38	6.2%	9.4%	442,272	446,985	7.2	8.5
45-49	54	33	10.5%	8.2%	460,978	455,300	11.7	7.2
50-54	39	29	7.6%	7.2%	491,317	479,121	7.9	6.1
55-59	37	17	7.2%	4.2%	530,529	533,244	7.0	3.2
60-64	12	16	2.3%	4.0%	457,694	470,365	2.6	3.4
65-69	7	3	1.4%	0.7%	371,541	383,950	1.9	0.8
70+	4	7	0.8%	1.7%	766,121	795,516	0.5	0.9

Table 5.4 First-time HIV diagnoses by age, females, Ontario, 2019 to 2020

Age group	Number		Percent		Ontario population		Rate per 100,000	
	2019	2020	2019	2020	2019	2020	2019	2020
<15	4	0	2.4%	0.0%	1,111,454	1,115,844	0.4	0.0
15-19	4	1	2.4%	1.0%	418,530	416,203	1.0	0.2
20-24	12	8	7.2%	7.6%	491,137	495,777	2.4	1.6
25-29	25	20	15.1%	19.0%	507,400	520,993	4.9	3.8
30-34	26	20	15.7%	19.0%	499,146	515,271	5.2	3.9
35-39	28	18	16.9%	17.1%	487,887	499,903	5.7	3.6
40-44	23	9	13.9%	8.6%	471,153	475,095	4.9	1.9
45-49	13	7	7.8%	6.7%	479,388	477,582	2.7	1.5
50-54	9	7	5.4%	6.7%	500,397	490,385	1.8	1.4
55-59	9	5	5.4%	4.8%	538,288	541,118	1.7	0.9
60-64	5	4	3.0%	3.8%	480,895	491,911	1.0	0.8
65-69	3	2	1.8%	1.9%	407,626	420,850	0.7	0.5
70+	5	4	3.0%	3.8%	967,086	1,000,785	0.5	0.4

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses with sex and age not reported were excluded (less than 1%).

6. Overall by health region

Table 6.1 Positive HIV tests and first-time HIV diagnoses by health region, overall, males, and females, Ontario, 2019

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Overall							
First-time HIV diagnoses	28	34	13	394	97	62	51
Previous evidence of HIV	8	22	2	132	42	15	12
Total positive HIV tests	36	56	15	526	139	77	63
Previous evidence HIV ÷ positive HIV tests	22.2%	39.3%	13.3%	25.1%	30.2%	19.5%	19.0%
Ontario population	809,097	1,025,425	877,901	2,963,466	4,345,686	2,821,904	1,701,239
Rate of positive HIV tests per 100,000 people	4.4	5.5	1.7	17.7	3.2	2.7	3.7
Males¹							
First-time HIV diagnoses	14	14	7	313	73	47	43
Previous evidence of HIV	6	8	2	95	23	10	6
Total positive HIV tests	20	22	9	408	96	57	49
Previous evidence HIV ÷ positive HIV tests	30.0%	36.4%	22.2%	23.3%	24.0%	17.5%	12.2%
Ontario population	404,074	503,772	435,818	1,443,045	2,153,745	1,399,111	845,159
Rate of positive HIV tests per 100,000 males	4.9	4.4	2.1	28.3	4.5	4.1	5.8
Females¹							
First-time HIV diagnoses	14	20	6	79	24	15	8
Previous evidence of HIV	2	14	0	36	19	5	6
Total positive HIV tests	16	34	6	115	43	20	14
Previous evidence HIV ÷ positive HIV tests	12.5%	41.2%	0.0%	31.3%	44.2%	25.0%	42.9%
Ontario population	405,023	521,653	442,083	1,520,421	2,191,941	1,422,793	856,080
Rate of positive HIV tests per 100,000 females	4.0	6.5	1.4	7.6	2.0	1.4	1.6

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. 1. Positive tests and diagnoses with sex not reported were excluded (less than 1%).

Table 6.2 Positive HIV tests and first-time HIV diagnoses by health region, overall, males, and females, Ontario, 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Overall							
First-time HIV diagnoses	24	37	13	278	70	53	33
Previous evidence of HIV	3	16	1	74	24	15	10
Total positive HIV tests	27	53	14	352	94	68	43
Previous evidence HIV ÷ positive HIV tests	11.1%	30.2%	7.1%	21.0%	25.5%	22.1%	23.3%
Ontario population	810,181	1,043,130	886,339	2,988,408	4,418,693	2,864,816	1,722,447
Rate of positive HIV tests per 100,000 people	3.0	3.5	1.5	9.3	1.6	1.9	1.9
Males¹							
First-time HIV diagnoses	11	20	11	236	54	39	28
Previous evidence of HIV	3	9	1	60	14	10	8
Total positive HIV tests	14	29	12	296	68	49	36
Previous evidence HIV ÷ positive HIV tests	21.4%	31.0%	8.3%	20.3%	20.6%	20.4%	22.2%
Ontario population	810,181	1,043,130	886,339	2,988,408	4,418,693	2,864,816	1,722,447
Rate of positive HIV tests per 100,000 males	3.5	5.7	2.7	20.4	3.1	3.4	4.2
Females¹							
First-time HIV diagnoses	13	16	2	40	15	12	5
Previous evidence of HIV	0	7	0	13	10	5	2
Total positive HIV tests	13	23	2	53	25	17	7
Previous evidence HIV ÷ positive HIV tests	0.0%	30.4%	0.0%	24.5%	40.0%	29.4%	28.6%
Ontario population	405,712	530,511	446,296	1,534,067	2,228,077	1,443,844	866,059
Rate of positive HIV tests per 100,000 females	3.2	3.0	0.4	2.6	0.7	0.8	0.6

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. 1. Positive tests and diagnoses with sex not reported were excluded (less than 1%).

Table 6.3 First-time HIV diagnoses by health region, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number							
2016	14	58	19	354	89	88	83
2017	14	51	10	381	99	64	72
2018	25	43	18	398	116	63	66
2019	28	34	13	394	97	62	51
2020	24	37	13	278	70	53	33
Ontario population							
2016	802,787	964,341	852,193	2,819,398	4,125,788	2,681,980	1,628,907
2017	804,043	983,739	859,549	2,862,662	4,186,566	2,723,205	1,650,377
2018	806,713	1,004,802	869,005	2,917,915	4,259,995	2,771,651	1,678,616
2019	809,097	1,025,425	877,901	2,963,466	4,345,686	2,821,904	1,701,239
2020	810,181	1,043,130	886,339	2,988,408	4,418,693	2,864,816	1,722,447
Rate per 100,000 people							
2016	1.7	6.0	2.2	12.6	2.2	3.3	5.1
2017	1.7	5.2	1.2	13.3	2.4	2.4	4.4
2018	3.1	4.3	2.1	13.6	2.7	2.3	3.9
2019	3.5	3.3	1.5	13.3	2.2	2.2	3.0
2020	3.0	3.5	1.5	9.3	1.6	1.9	1.9

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021.

Table 6.4 First-time HIV diagnoses by health region, males, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number							
2016	9	38	16	307	69	63	57
2017	10	39	8	324	76	48	59
2018	19	31	15	325	85	42	53
2019	14	14	7	313	73	47	43
2020	11	20	11	236	54	39	28
Ontario population							
2016	400,044	473,134	422,018	1,370,220	2,039,176	1,324,623	806,630
2017	400,853	482,585	426,151	1,392,831	2,070,180	1,345,856	818,119
2018	402,658	493,205	431,305	1,420,072	2,108,983	1,372,774	833,364
2019	404,074	503,772	435,818	1,443,045	2,153,745	1,399,111	845,159
2020	404,469	512,619	440,043	1,454,341	2,190,616	1,420,972	856,388
Rate per 100,000 people							
2016	2.2	8.0	3.8	22.4	3.4	4.8	7.1
2017	2.5	8.1	1.9	23.3	3.7	3.6	7.2
2018	4.7	6.3	3.5	22.9	4.0	3.1	6.4
2019	3.5	2.8	1.6	21.7	3.4	3.4	5.1
2020	2.7	3.9	2.5	16.2	2.5	2.7	3.3

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses with sex not reported were excluded (less than 1%).

Table 6.5 First-time HIV diagnoses by health region, females, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number							
2016	5	20	3	44	17	24	25
2017	4	11	2	55	23	16	13
2018	6	12	3	72	30	21	13
2019	14	20	6	79	24	15	8
2020	13	16	2	40	15	12	5
Ontario population							
2016	402,743	491,207	430,175	1,449,178	2,086,612	1,357,357	822,277
2017	403,190	501,154	433,398	1,469,831	2,116,386	1,377,349	832,258
2018	404,055	511,597	437,700	1,497,843	2,151,012	1,398,877	845,252
2019	405,023	521,653	442,083	1,520,421	2,191,941	1,422,793	856,080
2020	405,712	530,511	446,296	1,534,067	2,228,077	1,443,844	866,059
Rate per 100,000 people							
2016	1.2	4.1	0.7	3.0	0.8	1.8	3.0
2017	1.0	2.2	0.5	3.7	1.1	1.2	1.6
2018	1.5	2.3	0.7	4.8	1.4	1.5	1.5
2019	3.5	3.8	1.4	5.2	1.1	1.1	0.9
2020	3.2	3.0	0.4	2.6	0.7	0.8	0.6

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses with sex not reported were excluded (less than 1%).

Priority Populations

7. Priority populations overview

Table 7.1 Positive HIV tests and first-time HIV diagnoses attributed to each priority population (not mutually exclusive), Ontario, 2019 to 2020

Priority population (not mutually exclusive)	Number of positive HIV tests		Number of first-time HIV diagnoses		Number of positive HIV tests with previous evidence of HIV		Percent of first-time HIV diagnoses	
	2019	2020	2019	2020	2019	2020	2019	2020
Gay, bisexual, and other men who have sex with men (GBMSM)¹	383	270	306	215	77	55	63.1%	62.7%
People who are African, Caribbean, or Black (ACB)²	240	140	128	82	112	58	24.6%	27.1%
People who use injection drugs (PWID)³	71	44	63	39	8	5	12.8%	11.0%
Indigenous Peoples⁴	29	19	26	17	3	2	5.7%	5.2%
Women⁵	249	142	165	105	84	37	24.2%	20.6%
Not in a priority population⁶	98	73	66	54	32	19	11.3%	13.1%
Unknown priority population⁷	118	118	99	104	19	14	14.8%	20.2%

Notes: Data provided by Public Health Ontario Laboratory. Priority populations are not mutually exclusive and therefore proportions do not sum to 100%. 1. Where HIV exposure category was reported (not reported for 26.4% of positive HIV tests in 2019 and 29.7% in 2020, 28.4% of first-time HIV diagnoses in 2019 and 32.4% in 2020). 2. Where ACB status was reported (not reported for 27.7% of positive HIV tests in 2019 and 30.9% in 2020, 30.9% of first-time HIV diagnoses in 2019 and 35.3% in 2020). 3. Where PWID status was reported (not reported for 26.8% of positive HIV tests in 2019 and 29.7% in 2020, 27.8% of first-time HIV diagnoses in 2019 and 31.3% in 2020). 4. Where race/ethnicity was reported (not reported for 29.8% of positive HIV tests in 2019 and 32.5% in 2020, 32.8% of first-time HIV diagnoses in 2019 and 36.9% in 2020). 5. Where sex was reported (not reported for less than 1% of positive HIV tests and first-time HIV diagnoses, in 2019 and 2020). 6. Where status of at least one priority population was reported (not reported for 17.7% of positive HIV tests in 2019 and 21.9% in 2020, 14.8% of first-time HIV diagnoses in 2019 and 20.2% in 2020). 7. Among all positive HIV tests.

8. Gay, bisexual, and other men who have sex with men (GBMSM)

8.a. GBMSM overview

Table 8.1 Positive HIV tests and first-time HIV diagnoses, GBMSM, Ontario, 2011 to 2020

Year	Number of positive HIV tests ¹	Number of first-time HIV diagnoses ²	Number of positive HIV tests with previous evidence of HIV ¹	Percent of all positive HIV tests that had previous evidence of HIV ¹	Percent of first-time HIV diagnoses attributed to GBMSM ³	Percent of all first-time HIV diagnoses among males attributed to GBMSM ³
2011	411	373	38	9.2%	61.7%	75.4%
2012	401	364	37	9.2%	64.9%	80.2%
2013	381	352	29	7.6%	65.9%	77.7%
2014	402	366	36	9.0%	67.2%	79.6%
2015	375	338	37	9.9%	62.2%	75.4%
2016	371	339	32	8.6%	61.7%	75.0%
2017	402	353	49	12.2%	64.5%	78.8%
2018	390	343	47	12.1%	62.6%	79.0%
2019	383	306	77	20.1%	63.1%	79.7%
2020	270	215	55	20.4%	62.7%	75.7%

Notes: Data provided by Public Health Ontario Laboratory. 1. Positive HIV tests where GBMSM status was not reported were excluded (average of 15.9% of tests per year). 2. Diagnoses where GBMSM status was not reported were excluded (average of 15.7% of diagnoses per year). 3. Calculated among where HIV exposure category was reported (not reported for yearly average of 23.5% of diagnoses overall and 21.4% of diagnoses among males).

8.b. GBMSM by HIV exposure category

Table 8.2 First-time HIV diagnoses by HIV exposure category, GBMSM, Ontario, 2016 to 2020

Year	Male-to-male sexual contact + IDU		Male-to-male sexual contact	
	Number	Percent	Number	Percent
2016	18	5.3%	321	94.7%
2017	15	4.2%	338	95.8%
2018	24	7.0%	319	93.0%
2019	23	7.5%	283	92.5%
2020	9	4.2%	206	95.8%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where GBMSM status was not reported were excluded (average of 17.5% of diagnoses per year). IDU = injection drug use.

8.c. GBMSM by race/ethnicity

Table 8.3 First-time HIV diagnoses by race/ethnicity, GBMSM, Ontario, 2016 to 2020

Year	White	Black	Indigenous	East / Southeast Asian	South Asian	Middle Eastern	Latino/a/e/x	Other / mixed	Not reported
Number									
2016	163	37	6	29	15	11	30	4	44
2017	141	41	8	41	16	13	39	7	47
2018	162	46	4	41	9	9	43	14	15
2019	139	41	11	20	14	3	43	13	22
2020	76	34	4	26	10	6	31	12	16
Percent (where reported¹)									
2016	55.3%	12.5%	2.0%	9.8%	5.1%	3.7%	10.2%	1.4%	-
2017	46.1%	13.4%	2.6%	13.4%	5.2%	4.2%	12.7%	2.3%	-
2018	49.4%	14.0%	1.2%	12.5%	2.7%	2.7%	13.1%	4.3%	-
2019	48.9%	14.4%	3.9%	7.0%	4.9%	1.1%	15.1%	4.6%	-
2020	38.2%	17.1%	2.0%	13.1%	5.0%	3.0%	15.6%	6.0%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where GBMSM status was not reported were excluded (average of 17.5% of diagnoses per year). 1. Diagnoses where GBMSM status was reported but race/ethnicity was not reported were excluded (average of 9.1% of diagnoses per year, where GBMSM status reported).

8.d. GBMSM by age

Table 8.4 First-time HIV diagnoses per 100,000 males by age, GBMSM, Ontario, 2019 to 2020

Age group	Number		Percent		Ontario population (males)		Rate per 100,000	
	2019	2020	2019	2020	2019	2020	2019	2020
15-19	6	3	2.0%	1.4%	441,464	436,920	1.4	0.7
20-24	37	34	12.1%	15.8%	540,009	541,758	6.9	6.3
25-29	73	47	23.9%	21.9%	538,840	554,970	13.5	8.5
30-34	74	50	24.2%	23.3%	508,062	527,454	14.6	9.5
35-39	31	22	10.1%	10.2%	475,890	493,698	6.5	4.5
40-44	14	15	4.6%	7.0%	442,272	446,985	3.2	3.4
45-49	27	17	8.8%	7.9%	460,978	455,300	5.9	3.7
50-54	12	12	3.9%	5.6%	491,317	479,121	2.4	2.5
55-59	20	4	6.5%	1.9%	530,529	533,244	3.8	0.8
60-64	7	8	2.3%	3.7%	457,694	470,365	1.5	1.7
65-69	3	0	1.0%	0.0%	371,541	383,950	0.8	0.0
70+	2	3	0.7%	1.4%	766,121	795,516	0.3	0.4

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses with age not reported were excluded (less than 1%). Diagnoses where GBMSM status was not reported were excluded (17.6% of diagnoses in 2019, 22.5% in 2020).

8.e. GBMSM by health region

Table 8.5 First-time HIV diagnoses by health region, GBMSM, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2016	3	18	8	216	40	32	20
2017	3	21	6	224	38	26	33
2018	9	13	9	218	43	19	30
2019	10	4	5	202	35	28	20
2020	3	4	4	143	25	18	17
Percent of first-time HIV diagnoses across health regions							
2016	0.9%	5.3%	2.4%	64.1%	11.9%	9.5%	5.9%
2017	0.9%	6.0%	1.7%	63.8%	10.8%	7.4%	9.4%
2018	2.6%	3.8%	2.6%	63.9%	12.6%	5.6%	8.8%
2019	3.3%	1.3%	1.6%	66.4%	11.5%	9.2%	6.6%
2020	1.4%	1.9%	1.9%	66.8%	11.7%	8.4%	7.9%
Percent of first-time HIV diagnoses among males within each region attributed to GBMSM (where GBMSM status reported)							
2016	50.0%	62.1%	57.1%	85.0%	66.7%	62.7%	37.7%
2017	30.0%	75.0%	75.0%	87.2%	60.3%	63.4%	61.1%
2018	60.0%	61.9%	75.0%	83.5%	70.5%	65.5%	65.2%
2019	71.4%	66.7%	83.3%	83.1%	72.9%	66.7%	58.8%
2020	27.3%	40.0%	44.4%	81.7%	67.6%	60.0%	81.0%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where GBMSM status was not reported were excluded (average of 17.5% of diagnoses per year).

9. People who are African, Caribbean, or Black (ACB)

9.a. ACB overview

Table 9.1 Positive HIV tests and first-time HIV diagnoses, ACB, Ontario, 2011 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of positive HIV tests that had previous evidence of HIV	Percent of all first-time HIV diagnoses attributed to ACB
2011	172	144	28	16.3%	28.0%
2012	188	148	40	21.3%	27.5%
2013	115	92	23	20.0%	18.7%
2014	132	105	27	20.5%	21.0%
2015	142	104	38	26.8%	20.4%
2016	142	108	34	23.9%	21.8%
2017	193	123	70	36.3%	24.2%
2018	250	157	93	37.2%	28.9%
2019	240	128	112	46.7%	27.1%
2020	140	82	58	41.4%	24.6%

Notes: Data provided by Public Health Ontario Laboratory. Positive HIV tests where ACB status was not reported were excluded (average of 28.8% of tests per year). Diagnoses where ACB status was not reported were excluded (average of 29.3% of diagnoses per year).

9.b. ACB by sex

Table 9.2 Positive HIV tests and first-time HIV diagnoses, ACB males, Ontario, 2011 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of positive HIV tests that had previous evidence of HIV	Percent of all first-time HIV diagnoses attributed to ACB males	Among first-time HIV diagnoses in males, percent attributed to ACB	Among first-time HIV diagnoses in ACB people, percent that were in males
2011	97	88	9	9.3%	17.1%	21.2%	61.1%
2012	94	80	14	14.9%	14.8%	18.4%	54.1%
2013	58	50	8	13.8%	10.2%	12.0%	54.9%
2014	88	73	15	17.0%	14.6%	17.3%	69.5%
2015	75	58	17	22.7%	11.4%	13.8%	55.8%
2016	93	76	17	18.3%	15.3%	18.9%	70.4%
2017	104	76	28	26.9%	14.9%	18.2%	61.8%
2018	121	92	29	24.0%	16.9%	21.1%	58.6%
2019	114	70	44	38.6%	14.8%	18.6%	54.7%
2020	92	57	35	38.0%	17.1%	20.5%	69.5%

Notes: Data provided by Public Health Ontario Laboratory. Positive HIV tests where ACB status was not reported were excluded (average of 27.4% of tests per year). Diagnoses where ACB status was not reported were excluded (average of 27.1% of diagnoses per year).

Table 9.3 Positive HIV tests and first-time HIV diagnoses, ACB females, Ontario, 2011 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of positive HIV tests that had previous evidence of HIV	Percent of all first-time HIV diagnoses attributed to ACB females	Among first-time HIV diagnoses in females, percent attributed to ACB	Among first-time HIV diagnoses in ACB people, percent that were in females
2011	75	56	19	25.3%	10.9%	56.6%	38.9%
2012	94	68	26	27.7%	12.6%	66.0%	45.9%
2013	56	41	15	26.8%	8.4%	56.9%	45.1%
2014	44	32	12	27.3%	6.4%	41.6%	30.5%
2015	67	46	21	31.3%	9.0%	51.7%	44.2%
2016	49	32	17	34.7%	6.5%	34.4%	29.6%
2017	89	47	42	47.2%	9.2%	51.6%	38.2%
2018	128	65	63	49.2%	12.0%	61.3%	41.4%
2019	126	58	68	54.0%	12.3%	61.1%	45.3%
2020	48	25	23	47.9%	7.5%	45.5%	30.5%

Notes: Data provided by Public Health Ontario Laboratory. Positive HIV tests where ACB status was not reported were excluded (average of 32.1% of tests per year). Diagnoses where ACB status was not reported were excluded (average of 35.6% of diagnoses per year).

9.c. ACB by HIV exposure category

Table 9.4 First-time HIV diagnoses by HIV exposure category, ACB, Ontario, 2016 to 2020

Year	Male-to-male sexual contact + IDU	Male-to-male sexual contact	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	Other	No risk reported / unknown
Number							
2016	1	40	1	55	10	0	1
2017	4	44	1	62	8	0	4
2018	2	50	0	89	9	1	6
2019	1	42	1	65	15	0	4
2020	1	35	1	30	10	0	5
Percent (where reported¹)							
2016	0.9%	37.4%	0.9%	51.4%	9.3%	0.0%	-
2017	3.4%	37.0%	0.8%	52.1%	6.7%	0.0%	-
2018	1.3%	33.1%	0.0%	58.9%	6.0%	0.7%	-
2019	0.8%	33.9%	0.8%	52.4%	12.1%	0.0%	-
2020	1.3%	45.5%	1.3%	39.0%	13.0%	0.0%	-

Table 9.5 First-time HIV diagnoses by HIV exposure category, ACB males, Ontario, 2016 to 2020

Year	Male-to-male sexual contact + IDU	Male-to-male sexual contact	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	Other	No risk reported / unknown
Number							
2016	1	40	1	27	7	0	0
2017	4	44	1	22	3	0	2
2018	2	50	0	32	2	1	5
2019	1	42	1	15	7	0	4
2020	1	35	1	10	7	0	3
Percent (where reported¹)							
2016	1.3%	52.6%	1.3%	35.5%	9.2%	0.0%	-
2017	5.4%	59.5%	1.4%	29.7%	4.1%	0.0%	-
2018	2.3%	57.5%	0.0%	36.8%	2.3%	1.1%	-
2019	1.5%	63.6%	1.5%	22.7%	10.6%	0.0%	-
2020	1.9%	64.8%	1.9%	18.5%	13.0%	0.0%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where ACB status was not reported were excluded (average of 30.1% of diagnoses per year overall and 27.5% among males). 1. Diagnoses where ACB status was reported but HIV exposure category was not reported were excluded (average of 3.4% of diagnoses per year where ACB status was reported overall and 3.8% among males).

Table 9.6 First-time HIV diagnoses by HIV exposure category, ACB females, Ontario, 2016 to 2020

Year	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	No risk reported / unknown
Number			
2016	28	3	1
2017	40	5	2
2018	57	7	1
2019	50	8	0
2020	20	3	2
Percent (where reported¹)			
2016	90.3%	9.7%	-
2017	88.9%	11.1%	-
2018	89.1%	10.9%	-
2019	86.2%	13.8%	-
2020	87.0%	13.0%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where ACB status was not reported were excluded (average of 37.1% of diagnoses per year). 1. Diagnoses where ACB status was reported but HIV exposure category was not reported were excluded (average of 3.4% of diagnoses per year where ACB status was reported).

9.d. ACB by age

Table 9.7 First-time HIV diagnoses by age, ACB, Ontario, 2019 to 2020

Age group	Number		Percent	
	2019	2020	2019	2020
15-19	5	0	3.9%	0.0%
20-24	13	7	10.2%	8.5%
25-29	20	13	15.7%	15.9%
30-34	21	18	16.5%	22.0%
35-39	19	18	15.0%	22.0%
40-44	19	7	15.0%	8.5%
45-49	13	6	10.2%	7.3%
50-54	5	5	3.9%	6.1%
55-59	5	4	3.9%	4.9%
60-64	2	3	1.6%	3.7%
65-69	2	1	1.6%	1.2%
70+	3	0	2.4%	0.0%

Table 9.8 First-time HIV diagnoses by age, ACB males and ACB females, Ontario, 2019-2020

Age group	Males		Females	
	Number	Percent	Number	Percent
15-19	2	1.6%	3	3.7%
20-24	14	11.0%	6	7.3%
25-29	22	17.3%	11	13.4%
30-34	24	18.9%	15	18.3%
35-39	21	16.5%	16	19.5%
40-44	13	10.2%	13	15.9%
45-49	15	11.8%	4	4.9%
50-54	7	5.5%	3	3.7%
55-59	4	3.1%	5	6.1%
60-64	2	1.6%	3	3.7%
65-69	2	1.6%	1	1.2%
70+	1	0.8%	2	2.4%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses with age not reported were excluded (less than 1%). Diagnoses where ACB status was not reported were excluded (30.9% of diagnoses overall in 2019, 35.3% in 2020; 28.6% among males over the 2-year period 2019-2020 and 44.9% among females).

9.e. ACB by health region

Table 9.9 First-time HIV diagnoses by health region, ACB, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2016	1	14	2	51	22	10	8
2017	1	10	0	73	22	9	7
2018	2	3	0	96	40	14	2
2019	0	11	0	84	15	9	8
2020	1	10	1	43	8	8	9
Percent of first-time HIV diagnoses across health regions							
2016	0.9%	13.0%	1.9%	47.2%	20.4%	9.3%	7.4%
2017	0.8%	8.2%	0.0%	59.8%	18.0%	7.4%	5.7%
2018	1.3%	1.9%	0.0%	61.1%	25.5%	8.9%	1.3%
2019	0.0%	8.7%	0.0%	66.1%	11.8%	7.1%	6.3%
2020	1.3%	12.5%	1.3%	53.8%	10.0%	10.0%	11.3%
Percent of first-time HIV diagnoses within each region attributed to ACB (where ACB status reported)							
2016	12.5%	43.8%	13.3%	20.2%	32.8%	16.7%	13.6%
2017	7.7%	37.0%	0.0%	26.7%	29.7%	18.8%	10.8%
2018	12.5%	14.3%	0.0%	31.3%	47.6%	28.6%	3.9%
2019	0.0%	68.8%	0.0%	31.0%	23.8%	17.3%	19.5%
2020	5.9%	50.0%	12.5%	23.9%	18.6%	22.2%	34.6%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where ACB status was not reported were excluded (average of 30.1% of diagnoses per year).

Table 9.10 First-time HIV diagnoses by health region, ACB males, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2016	1	6	2	38	16	7	6
2017	1	7	0	42	13	7	5
2018	1	0	0	60	24	6	1
2019	0	2	0	48	7	7	6
2020	0	3	1	34	7	4	8
Percent of first-time HIV diagnoses across health regions							
2016	1.3%	7.9%	2.6%	50.0%	21.1%	9.2%	7.9%
2017	1.3%	9.3%	0.0%	56.0%	17.3%	9.3%	6.7%
2018	1.1%	0.0%	0.0%	65.2%	26.1%	6.5%	1.1%
2019	0.0%	2.9%	0.0%	68.6%	10.0%	10.0%	8.6%
2020	0.0%	5.3%	1.8%	59.6%	12.3%	7.0%	14.0%
Percent of first-time HIV diagnoses within each region attributed to ACB (where ACB status reported)							
2016	25.0%	26.1%	15.4%	17.0%	29.6%	15.9%	15.4%
2017	10.0%	29.2%	0.0%	18.5%	22.8%	18.4%	9.4%
2018	7.7%	0.0%	0.0%	23.5%	37.5%	17.6%	2.4%
2019	0.0%	28.6%	0.0%	21.3%	14.3%	16.7%	16.7%
2020	0.0%	30.0%	14.3%	20.7%	19.4%	14.3%	36.4%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where ACB status was not reported were excluded (average of 27.5% of diagnoses per year).

Table 9.11 First-time HIV diagnoses by health region, ACB females, Ontario, 2015-2016 to 2019-2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2015-2016	1	15	0	38	13	7	4
2017-2018	1	6	0	67	25	10	3
2019-2020	1	16	0	45	9	6	3
Percent of first-time HIV diagnoses across health regions							
2015-2016	1.3%	19.2%	0.0%	48.7%	16.7%	9.0%	5.1%
2017-2018	0.9%	5.4%	0.0%	59.8%	22.3%	8.9%	2.7%
2019-2020	1.3%	20.0%	0.0%	56.3%	11.3%	7.5%	3.8%
Percent of first-time HIV diagnoses within each region attributed to ACB (where ACB status reported)							
2015-2016	7.1%	88.2%	0.0%	57.6%	54.2%	24.1%	14.3%
2017-2018	16.7%	85.7%	0.0%	69.1%	67.6%	40.0%	13.6%
2019-2020	6.3%	84.2%	0.0%	72.6%	42.9%	33.3%	33.3%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where ACB status was not reported were excluded (average of 35.9% of diagnoses per year).

10. People who use injection drugs (PWID)

10.a. PWID overview

Table 10.1 Positive HIV tests and first-time HIV diagnoses, PWID, Ontario, 2011 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of positive HIV tests that had previous evidence of HIV	Percent of all first-time HIV diagnoses attributed to PWID
2011	68	60	8	11.8%	9.1%
2012	53	47	6	11.3%	8.0%
2013	64	58	6	9.4%	10.5%
2014	88	82	6	6.8%	14.2%
2015	92	85	7	7.6%	15.1%
2016	86	81	5	5.8%	14.0%
2017	69	61	8	11.6%	11.0%
2018	77	69	8	10.4%	12.3%
2019	71	63	8	11.3%	12.8%
2020	44	39	5	11.4%	11.0%

Notes: Data provided by Public Health Ontario Laboratory. Positive HIV tests where PWID status was not reported were excluded (average of 21.9% of tests per year). Diagnoses where PWID status was not reported were excluded (average of 21.2% of diagnoses per year).

10.b. PWID by sex

Table 10.2 First-time HIV diagnoses, male PWID, Ontario, 2011 to 2020

Year	Number of first-time HIV diagnoses	Percent of all first-time HIV diagnoses attributed to PWID males	Among first-time HIV diagnoses in males, percent attributed to PWID	Among first-time HIV diagnoses in PWID people, percent that were in males
2011	44	6.7%	8.3%	73.3%
2012	36	6.1%	7.6%	76.6%
2013	45	8.1%	9.6%	78.9%
2014	57	9.9%	11.9%	71.3%
2015	58	10.3%	12.5%	68.2%
2016	52	9.0%	11.0%	64.2%
2017	42	7.5%	9.0%	68.9%
2018	48	8.5%	10.7%	69.6%
2019	40	8.1%	10.1%	63.5%
2020	24	6.8%	8.2%	61.5%

Table 10.3 First-time HIV diagnoses, female PWID, Ontario, 2011 to 2020

Year	Number of first-time HIV diagnoses	Percent of all first-time HIV diagnoses attributed to PWID females	Among first-time HIV diagnoses in females, percent attributed to PWID	Among first-time HIV diagnoses in PWID people, percent that were in females
2011	16	2.4%	12.8%	26.7%
2012	11	1.9%	10.0%	23.4%
2013	12	2.2%	14.5%	21.1%
2014	23	4.0%	23.7%	28.8%
2015	27	4.8%	27.8%	31.8%
2016	29	5.0%	28.2%	35.8%
2017	19	3.4%	21.6%	31.1%
2018	21	3.7%	18.8%	30.4%
2019	23	4.7%	23.7%	36.5%
2020	15	4.2%	25.4%	38.5%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where PWID status was not reported were excluded (average of 18.9% of diagnoses per year among males, 28.9% among females).

10.c. PWID by HIV exposure category

Table 10.4 First-time HIV diagnoses by HIV exposure category, PWID, Ontario, 2016 to 2020

Year	Male-to-male sexual contact + IDU		IDU, no male-to-male sexual contact	
	Number	Percent	Number	Percent
2016	18	22.2%	63	77.8%
2017	15	24.6%	46	75.4%
2018	24	34.8%	45	65.2%
2019	23	36.5%	40	63.5%
2020	9	23.1%	30	76.9%

Table 10.5 First-time HIV diagnoses by HIV exposure category, male PWID, Ontario, 2016 to 2020

Year	Male-to-male sexual contact + IDU		IDU, no male-to-male sexual contact	
	Number	Percent	Number	Percent
2016	18	34.6%	34	65.4%
2017	15	35.7%	27	64.3%
2018	24	50.0%	24	50.0%
2019	23	57.5%	17	42.5%
2020	9	37.5%	15	62.5%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where PWID status was not reported were excluded (average of 24.5% of diagnoses per year overall and 21.5% among males). IDU = injection drug use.

10.d. PWID by race/ethnicity

Table 10.6 First-time HIV diagnoses by race/ethnicity, PWID, Ontario, 2016 to 2020

Year	White	Black	Indigenous	Other races / ethnicities	Not reported
Number					
2016	50	2	9	4	16
2017	41	4	9	3	4
2018	39	2	7	8	13
2019	36	2	14	4	7
2020	15	1	11	3	9
Percent (where reported¹)					
2016	76.9%	3.1%	13.8%	6.2%	-
2017	71.9%	7.0%	15.8%	5.3%	-
2018	69.6%	3.6%	12.5%	14.3%	-
2019	64.3%	3.6%	25.0%	7.1%	-
2020	50.0%	3.3%	36.7%	10.0%	-

Table 10.7 First-time HIV diagnoses by race/ethnicity, male PWID, Ontario, 2015-2016 to 2019-2020

Year	White	Black	Indigenous	Other races / ethnicities	Not reported
Number					
2015-2016	69	6	4	7	24
2017-2018	52	6	10	11	11
2019-2020	38	3	10	6	7
Percent (where reported¹)					
2015-2016	80.2%	7.0%	4.7%	8.1%	-
2017-2018	65.8%	7.6%	12.7%	13.9%	-
2019-2020	66.7%	5.3%	17.5%	10.5%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where PWID status was not reported were excluded (average of 24.5% of diagnoses per year overall and 20.6% of diagnoses among males per 2-year period). 1. Diagnoses where PWID status was reported but race/ethnicity was not reported were excluded (average of 15.6% of diagnoses per year overall and 14.9% of diagnoses per 2-year period among males, where PWID status was reported).

Table 10.8 First-time HIV diagnoses by race/ethnicity, female PWID, Ontario, 2015-2016 to 2019-2020

Year	White	Indigenous	Other races / ethnicities	Not reported
Number				
2015-2016	33	10	4	9
2017-2018	28	6	0	6
2019-2020	13	15	1	9
Percent (where reported¹)				
2015-2016	70.2%	21.3%	8.5%	-
2017-2018	82.4%	17.6%	0.0%	-
2019-2020	44.8%	51.7%	3.4%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where PWID status was not reported were excluded (average of 32.6% of diagnoses per 2-year period). 1. Diagnoses where PWID status was reported but race/ethnicity was not reported were excluded (average of 18.6% of diagnoses per 2-year period, where PWID status was reported).

10.e. PWID by age

Table 10.9 First-time HIV diagnoses by age, PWID, Ontario, 2019-2020

Age group	Number	Percent
20-24	8	7.8%
25-29	23	22.5%
30-34	27	26.5%
35-39	17	16.7%
40-44	4	3.9%
45-49	10	9.8%
50-54	7	6.9%
55-59	3	2.9%
60-64	2	2.0%
65-69	0	0.0%
70+	1	1.0%

Table 10.10 First-time HIV diagnoses by age, male PWID and female PWID, Ontario, 2018-2020

Age group	Males		Females	
	Number	Percent	Number	Percent
20-24	10	8.9%	8	13.6%
25-29	17	15.2%	17	28.8%
30-34	26	23.2%	10	16.9%
35-39	19	17.0%	10	16.9%
40-44	12	10.7%	4	6.8%
45-49	13	11.6%	4	6.8%
50-54	9	8.0%	3	5.1%
55-59	5	4.5%	1	1.7%
60-64	1	0.9%	1	1.7%
65-69	0	0.0%	0	0.0%
70+	0	0.0%	1	1.7%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses with age not reported were excluded (less than 1%). Diagnoses where PWID status was not reported were excluded (29.3% of diagnoses overall, 23.8% among males over the 3-year period 2018-2020 and 38.0% among females).

10.f. PWID by health region

Table 10.11 First-time HIV diagnoses by health region, PWID, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2016	5	3	2	18	4	12	37
2017	5	6	1	11	4	6	28
2018	7	4	5	17	7	5	22
2019	13	0	1	16	7	16	10
2020	14	4	0	10	3	3	5
Percent of first-time HIV diagnoses across health regions							
2016	6.2%	3.7%	2.5%	22.2%	4.9%	14.8%	45.7%
2017	8.2%	9.8%	1.6%	18.0%	6.6%	9.8%	45.9%
2018	10.4%	6.0%	7.5%	25.4%	10.4%	7.5%	32.8%
2019	20.6%	0.0%	1.6%	25.4%	11.1%	25.4%	15.9%
2020	35.9%	10.3%	0.0%	25.6%	7.7%	7.7%	12.8%
Percent of first-time HIV diagnoses within each region attributed to PWID (where PWID status reported)							
2016	45.5%	7.7%	11.8%	6.3%	5.4%	17.4%	48.1%
2017	35.7%	18.8%	10.0%	3.7%	5.1%	11.3%	40.6%
2018	33.3%	15.4%	33.3%	5.4%	8.6%	11.1%	37.9%
2019	48.1%	0.0%	11.1%	5.6%	11.5%	30.8%	25.6%
2020	66.7%	18.2%	0.0%	5.3%	6.8%	7.5%	20.8%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where PWID status was not reported were excluded (average of 24.5% of diagnoses per year).

Table 10.12 First-time HIV diagnoses by health region, male PWID, Ontario, 2015-2016 to 2019-2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2015-2016	4	4	1	25	12	15	48
2017-2018	8	8	6	22	9	5	31
2019-2020	9	1	0	19	10	13	12
Percent of first-time HIV diagnoses across health regions							
2015-2016	3.7%	3.7%	0.9%	22.9%	11.0%	13.8%	44.0%
2017-2018	9.0%	9.0%	6.7%	24.7%	10.1%	5.6%	34.8%
2019-2020	14.1%	1.6%	0.0%	29.7%	15.6%	20.3%	18.8%
Percent of first-time HIV diagnoses within each region attributed to PWID (where PWID status reported)							
2015-2016	22.2%	6.9%	4.5%	4.9%	9.6%	16.9%	45.7%
2017-2018	32.0%	16.3%	30.0%	4.2%	7.2%	7.1%	30.4%
2019-2020	36.0%	6.3%	0.0%	4.5%	11.8%	18.1%	21.8%

Table 10.13 First-time HIV diagnoses by health region, female PWID, Ontario, 2015-2016 to 2019-2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2015-2016	12	2	1	12	0	7	22
2017-2018	4	2	0	6	2	6	19
2019-2020	18	3	1	7	0	6	3
Percent of first-time HIV diagnoses across health regions							
2015-2016	21.4%	3.6%	1.8%	21.4%	0.0%	12.5%	39.3%
2017-2018	10.3%	5.1%	0.0%	15.4%	5.1%	15.4%	48.7%
2019-2020	47.4%	7.9%	2.6%	18.4%	0.0%	15.8%	7.9%
Percent of first-time HIV diagnoses within each region attributed to PWID (where PWID status reported)							
2015-2016	70.6%	11.1%	20.0%	16.9%	0.0%	21.9%	66.7%
2017-2018	40.0%	25.0%	0.0%	6.7%	5.9%	21.4%	76.0%
2019-2020	78.3%	13.6%	25.0%	12.3%	0.0%	31.6%	37.5%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where PWID status was not reported were excluded (average of 20.6% of diagnoses among males and 32.6% among females per 2-year period).

11. Indigenous Peoples

11.a. Indigenous overview

Table 11.1 Positive HIV tests and first-time HIV diagnoses, Indigenous Peoples, Ontario, 2011 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of positive HIV tests that had previous evidence of HIV	Percent of all first-time HIV diagnoses attributed to Indigenous
2011	18	17	1	5.6%	3.5%
2012	16	15	1	6.3%	3.0%
2013	13	12	1	7.7%	2.6%
2014	12	12	0	0.0%	2.6%
2015	11	10	1	9.1%	2.1%
2016	20	19	1	5.0%	4.0%
2017	22	19	3	13.6%	3.9%
2018	13	11	2	15.4%	2.1%
2019	29	26	3	10.3%	5.7%
2020	19	17	2	10.5%	5.2%

Notes: Data provided by Public Health Ontario Laboratory. Positive HIV tests where race/ethnicity was not reported were excluded (average of 32.2% of tests per year). Diagnoses where race/ethnicity was not reported were excluded (average of 32.5% of diagnoses per year).

11.b. Indigenous by sex

Table 11.2 Positive HIV tests and first-time HIV diagnoses, Indigenous males, Ontario, 2011 to 2020

Year	Number of first-time HIV diagnoses	Percent of all first-time HIV diagnoses attributed to Indigenous males	Among first-time HIV diagnoses in males, percent attributed to Indigenous	Among first-time HIV diagnoses in Indigenous Peoples, percent that were in males
2011	10	2.1%	2.5%	58.8%
2012	13	2.6%	3.2%	86.7%
2013	10	2.2%	2.5%	83.3%
2014	7	1.5%	1.8%	58.3%
2015	5	1.0%	1.3%	50.0%
2016	8	1.7%	2.1%	42.1%
2017	15	3.1%	3.8%	78.9%
2018	8	1.5%	1.9%	72.7%
2019	15	3.3%	4.1%	57.7%
2020	10	3.1%	3.7%	58.8%

Table 11.3 Positive HIV tests and first-time HIV diagnoses, Indigenous females, Ontario, 2011 to 2020

Year	Number of first-time HIV diagnoses	Percent of all first-time HIV diagnoses attributed to Indigenous females	Among first-time HIV diagnoses in females, percent attributed to Indigenous	Among first-time HIV diagnoses in Indigenous Peoples, percent that were in females
2011	7	1.4%	7.5%	41.2%
2012	2	0.4%	2.0%	13.3%
2013	2	0.4%	3.3%	16.7%
2014	5	1.1%	7.1%	41.7%
2015	5	1.0%	5.8%	50.0%
2016	11	2.3%	12.6%	57.9%
2017	4	0.8%	4.4%	21.1%
2018	3	0.6%	2.9%	27.3%
2019	11	2.4%	12.2%	42.3%
2020	7	2.2%	13.0%	41.2%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where race/ethnicity was not reported were excluded (average of 30.3% of diagnoses per year among males, 39.2% among females).

11.c. Indigenous by HIV exposure category

Table 11.4 First-time HIV diagnoses by HIV exposure category, Indigenous Peoples, Ontario, 2013-2016 to 2017-2020

Year	Male-to-male sexual contact + IDU	Male-to-male sexual contact	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	No risk reported / unknown
Number						
2013-2016	4	12	22	3	11	1
2017-2020	3	24	38	1	4	3
Percent (where reported¹)						
2013-2016	7.7%	23.1%	42.3%	5.8%	21.2%	-
2017-2020	4.3%	34.3%	54.3%	1.4%	5.7%	-

Table 11.5 First-time HIV diagnoses by HIV exposure category, Indigenous males, Ontario, 2013-2016 to 2017-2020

Year	Male-to-male sexual contact + IDU	Male-to-male sexual contact	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	No risk reported / unknown
Number						
2013-2016	4	12	6	1	6	1
2017-2020	3	24	17	1	2	1
Percent (where reported¹)						
2013-2016	13.8%	41.4%	20.7%	3.4%	20.7%	-
2017-2020	6.4%	51.1%	36.2%	2.1%	4.3%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where race/ethnicity was not reported were excluded (average of 31.7% of diagnoses overall per 4-year period overall and 29.3% of diagnoses among males per 4-year period). 1. Diagnoses where race/ethnicity was reported but HIV exposure category was not reported were excluded (average of 3.0% of diagnoses overall per 4-year period and 2.7% of diagnoses among males per 4-year period where race/ethnicity was reported).

Table 11.6 First-time HIV diagnoses by HIV exposure category, Indigenous females, Ontario, 2013-2016 to 2017-2020

Year	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	No risk reported / unknown
Number				
2013-2016	16	2	5	0
2017-2020	21	0	2	2
Percent (where reported¹)				
2013-2016	69.6%	8.7%	21.7%	-
2017-2020	91.3%	0.0%	8.7%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where race/ethnicity was not reported were excluded (average of 39.6% of diagnoses per 4-year period). 1. Diagnoses where race/ethnicity was reported but HIV exposure category was not reported were excluded (average of 5.2% of diagnoses 4-year period where race/ethnicity was reported).

11.d. Indigenous by age

Table 11.7 First-time HIV diagnoses by age, Indigenous Peoples, Ontario, 2016-2020

Age group	Number	Percent
15-19	2	2.2%
20-24	15	16.3%
25-29	18	19.6%
30-34	23	25.0%
35-39	6	6.5%
40-44	8	8.7%
45-49	6	6.5%
50-54	9	9.8%
55-59	5	5.4%

Table 11.8 First-time HIV diagnoses by age, Indigenous males and Indigenous females, Ontario, 2016-2020

Age group	Males		Females	
	Number	Percent	Number	Percent
15-19	1	1.8%	1	2.8%
20-24	9	16.1%	6	16.7%
25-29	11	19.6%	7	19.4%
30-34	14	25.0%	9	25.0%
35-39	4	7.1%	2	5.6%
40-44	5	8.9%	3	8.3%
45-49	5	8.9%	1	2.8%
50-54	4	7.1%	5	13.9%
55-59	3	5.4%	2	5.6%

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses with age not reported were excluded (less than 1%). Diagnoses where race/ethnicity was not reported were excluded (32.1% of diagnoses, 29.7% among males, 39.3% among females).

11.e. Indigenous by health region

Table 11.9 First-time HIV diagnoses by health region, Indigenous Peoples, Ontario, 2011-2015 to 2016-2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2011-2015	29	3	2	17	4	2	9
2016-2020	42	2	2	17	2	13	14
Percent of first-time HIV diagnoses across health regions							
2011-2015	43.9%	4.5%	3.0%	25.8%	6.1%	3.0%	13.6%
2016-2020	45.7%	2.2%	2.2%	18.5%	2.2%	14.1%	15.2%
Percent of first-time HIV diagnoses within each region attributed to PWID (where race/ethnicity reported)							
2011-2015	33.7%	1.7%	4.5%	1.2%	1.5%	0.9%	4.2%
2016-2020	56.0%	1.9%	4.7%	1.4%	0.6%	5.6%	6.0%

Table 11.10 First-time HIV diagnoses by health region, Indigenous males, Ontario, 2011-2015 to 2016-2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2011-2015	19	3	2	14	4	1	2
2016-2020	23	2	2	12	1	9	7
Percent of first-time HIV diagnoses across health regions							
2011-2015	42.2%	6.7%	4.4%	31.1%	8.9%	2.2%	4.4%
2016-2020	41.1%	3.6%	3.6%	21.4%	1.8%	16.1%	12.5%
Percent of first-time HIV diagnoses within each region attributed to PWID (where race/ethnicity reported)							
2011-2015	34.5%	2.1%	5.6%	1.2%	1.9%	0.6%	1.1%
2016-2020	46.9%	2.7%	5.3%	1.1%	0.4%	5.1%	3.8%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where race/ethnicity was not reported were excluded (average of 32.6% of diagnoses overall and 30.4% of diagnoses among males per 5-year period).

Table 11.11 First-time HIV diagnoses by health region, Indigenous females, Ontario, 2011-2015 to 2016-2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number of first-time HIV diagnoses							
2011-2015	10	0	0	3	0	1	7
2016-2020	19	0	0	5	1	4	7
Percent of first-time HIV diagnoses across health regions							
2011-2015	47.6%	0.0%	0.0%	14.3%	0.0%	4.8%	33.3%
2016-2020	52.8%	0.0%	0.0%	13.9%	2.8%	11.1%	19.4%
Percent of first-time HIV diagnoses within each region attributed to PWID (where race/ethnicity reported)							
2011-2015	32.3%	0.0%	0.0%	1.6%	0.0%	2.1%	17.9%
2016-2020	73.1%	0.0%	0.0%	2.7%	1.4%	7.3%	14.3%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if unreported, the address of the ordering provider. Diagnoses where race/ethnicity was not reported were excluded (average of 39.1% of diagnoses per 5-year period).

12. Women

12.a. Women overview

Table 12.1 Positive HIV tests and first-time HIV diagnoses, Women, Ontario, 2011 to 2020

Year	Number of positive HIV tests	Number of first-time HIV diagnoses	Number of positive HIV tests with previous evidence of HIV	Percent of all positive HIV tests that had previous evidence of HIV	Percent of all first-time HIV diagnoses attributed to Women
2011	194	162	32	16.5%	19.7%
2012	177	142	35	19.8%	20.2%
2013	127	103	24	18.9%	15.6%
2014	155	129	26	16.8%	18.7%
2015	159	126	33	20.8%	18.4%
2016	170	138	32	18.8%	19.5%
2017	181	125	56	30.9%	17.9%
2018	244	157	87	35.7%	21.3%
2019	249	165	84	33.7%	24.2%
2020	142	105	37	26.1%	20.6%

Notes: Data provided by Public Health Ontario Laboratory. Positive HIV tests where sex was not reported were excluded (average of less than 1% of tests per year). Diagnoses where race/ethnicity was not reported were excluded (average of less than 1% of diagnoses per year).

12.b. Women by HIV exposure category

Table 12.2 First-time HIV diagnoses by HIV exposure category, Women, Ontario, 2016 to 2020

Year	Injection drug use (IDU)	Heterosexual contact, identified risk	Heterosexual contact, no identified risk	No risk reported / unknown
Number				
2016	29	48	19	42
2017	19	54	24	28
2018	21	69	23	44
2019	23	53	24	65
2020	15	31	13	46
Percent (where reported¹)				
2016	30.2%	50.0%	19.8%	-
2017	19.6%	55.7%	24.7%	-
2018	18.6%	61.1%	20.4%	-
2019	23.0%	53.0%	24.0%	-
2020	25.4%	52.5%	22.0%	-

12.c. Women by race/ethnicity

Table 12.3 First-time HIV diagnoses by race/ethnicity, Women, Ontario, 2015 to 2019

Year	White	Black	Indigenous	Other races / ethnicities	Not reported
Number					
2016	38	29	11	9	51
2017	29	47	4	11	34
2018	26	63	3	10	55
2019	21	53	11	5	75
2020	17	24	7	6	51
Percent (where reported²)					
2016	43.7%	33.3%	12.6%	10.3%	-
2017	31.9%	51.6%	4.4%	12.1%	-
2018	25.5%	61.8%	2.9%	9.8%	-
2019	23.3%	58.9%	12.2%	5.6%	-
2020	31.5%	44.4%	13.0%	11.1%	-

Notes: Data provided by Public Health Ontario Laboratory. Diagnoses where sex was unknown were excluded (average of less than 1% of diagnoses per year). 1. Diagnoses where sex was reported but HIV exposure category was not reported were excluded (average of 32.8% of diagnoses per year where sex was reported). 2. Diagnoses where sex was reported but race/ethnicity was not reported were excluded (average of 38.6% of diagnoses per year where sex was reported).

12.d. Women by age

Table 12.4 First-time HIV diagnoses per 100,000 females by age, Women, Ontario, 2019 to 2020

Age group	Number		Percent		Ontario population (females)		Rate per 100,000	
	2019	2020	2019	2020	2019	2020	2019	2020
<15	2	0	1.2%	0.0%	1,111,454	1,115,844	0.2	0.0
15-19	4	1	2.4%	1.0%	418,530	416,203	1.0	0.2
20-24	12	8	7.3%	7.6%	491,137	495,777	2.4	1.6
25-29	25	20	15.2%	19.0%	507,400	520,993	4.9	3.8
30-34	26	20	15.9%	19.0%	499,146	515,271	5.2	3.9
35-39	28	18	17.1%	17.1%	487,887	499,903	5.7	3.6
40-44	23	9	14.0%	8.6%	471,153	475,095	4.9	1.9
45-49	13	7	7.9%	6.7%	479,388	477,582	2.7	1.5
50-54	9	7	5.5%	6.7%	500,397	490,385	1.8	1.4
55-59	9	5	5.5%	4.8%	538,288	541,118	1.7	0.9
60-64	5	4	3.0%	3.8%	480,895	491,911	1.0	0.8
65-69	3	2	1.8%	1.9%	407,626	420,850	0.7	0.5
70+	5	4	3.0%	3.8%	967,086	1,000,785	0.5	0.4

Notes: Data provided by Public Health Ontario Laboratory. Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021. Diagnoses where sex was not reported were excluded (average of less than 1% of diagnoses per year). Diagnoses where age was not reported were excluded (less than 1%).

12.e. Women by health region

Table 12.5 Number and rate of first-time HIV diagnoses per 100,000 people by health region, Women, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number							
2016	5	18	3	44	17	23	25
2017	4	10	2	56	23	16	13
2018	6	12	3	71	29	21	12
2019	14	19	6	79	24	14	8
2020	13	16	2	40	15	12	5
Ontario population							
2016	402,743	491,207	430,175	1,449,178	2,086,612	1,357,357	822,277
2017	403,190	501,154	433,398	1,469,831	2,116,386	1,377,349	832,258
2018	404,055	511,597	437,700	1,497,843	2,151,012	1,398,877	845,252
2019	405,023	521,653	442,083	1,520,421	2,191,941	1,422,793	856,080
2020	405,712	530,511	446,296	1,534,067	2,228,077	1,443,844	866,059
Rate per 100,000 people							
2016	1.2	3.7	0.7	3.0	0.8	1.7	3.0
2017	1.0	2.0	0.5	3.8	1.1	1.2	1.6
2018	1.5	2.3	0.7	4.7	1.3	1.5	1.4
2019	3.5	3.6	1.4	5.2	1.1	1.0	0.9
2020	3.2	3.0	0.4	2.6	0.7	0.8	0.6

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if not reported, the address of the ordering provider. Diagnoses where sex was not reported were excluded (average of less than 1% of diagnoses per year). Rates calculated using Statistics Canada population estimates for all ages, accessed 11/05/2021.

Table 12.6 First-time HIV diagnoses by health region, Women, Ontario, 2016 to 2020

	Northern	Ottawa	Eastern	Toronto	Central East	Central West	South West
Number							
2016	5	18	3	44	17	23	25
2017	4	10	2	56	23	16	13
2018	6	12	3	71	29	21	12
2019	14	19	6	79	24	14	8
2020	13	16	2	40	15	12	5
Percent of first-time HIV diagnoses across health regions							
2016	3.7%	13.3%	2.2%	32.6%	12.6%	17.0%	18.5%
2017	3.2%	8.1%	1.6%	45.2%	18.5%	12.9%	10.5%
2018	3.9%	7.8%	1.9%	46.1%	18.8%	13.6%	7.8%
2019	8.5%	11.6%	3.7%	48.2%	14.6%	8.5%	4.9%
2020	12.6%	15.5%	1.9%	38.8%	14.6%	11.7%	4.9%
Percent of first-time HIV diagnoses within each region attributed to PWID (where sex reported)							
2016	35.7%	31.0%	15.8%	12.5%	19.8%	26.4%	30.5%
2017	28.6%	19.6%	20.0%	14.7%	23.2%	25.0%	18.1%
2018	24.0%	27.9%	16.7%	17.9%	25.2%	33.3%	18.2%
2019	50.0%	55.9%	46.2%	20.2%	24.7%	22.6%	15.7%
2020	54.2%	44.4%	15.4%	14.5%	21.7%	23.5%	15.2%

Notes: Data provided by Public Health Ontario Laboratory. Health regions are groupings of Public Health Units. Diagnoses were assigned to a health region based on their address of residence or, if not reported, the address of the ordering provider. Diagnoses where sex was not reported were excluded (average of less than 1% of diagnoses per year).