

PHEROPublic Health and
Epidemiology Report Ontario

Volume 14, Number 3

<http://www.health.gov.on.ca>

March 31, 2003

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Addington Health Unit, PHRED Program**Statistics**

- January 2003
- 4th Quarter 2002

Erratum**The February 2003 issue of PHERO
should have read Volume 14,
Number 2, not Number 1.**The Public Health and Epidemiology Report Ontario
is published monthly, by the:Public Health Branch
Ministry of Health and Long-Term Care
8th Floor, 5700 Yonge Street,
Toronto, Ontario, M2M 4K5
Telephone (416) 327-7090
Facsimile (416) 327-2625
Email: Mariam.Pingel@moh.gov.on.caEditorial Board: C. D'Cunha, K. Kurji, H. Brown,
G. Kettel, E. Chan, R. Jin, B. Gibson

Editor: Mariam Pingel

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ISSN 1181-960X

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Kingston, Frontenac, Lennox
& Addington Health Unit

INFLUENZA CASES IN KINGSTON, FRONTENAC AND LENNOX AND ADDINGTON HEALTH UNIT, OCTOBER 01/01 - APRIL 30/02

Background

As part of the Ministry of Health and Long-Term Care's Mandatory Program Guidelines, the Kingston, Frontenac and Lennox & Addington (KFL&A) Health Unit records and reports every confirmed case of influenza through the Reportable Diseases Information System (RDIS). Information recorded into RDIS includes demographic information, virus serotype, probable location of contract, laboratory confirmation method used, complications and/or adverse outcomes (e.g., death), and prior vaccination status.

Objectives

To establish trends in person, place and time relating to influenza cases in the KFL&A region during the 2001-2002 influenza season.

Methods

Using the Reportable Disease Information System (RDIS), all confirmed cases of Influenza A and B within the KFL&A geographic region from October 1, 2001 to April 30, 2002 were extracted. The following variables were selected: Case date, date of birth, influenza type, vaccination status, risk setting, and whether complications or death occurred as a result of influenza contraction.

Using the case date and date of birth, we were able to calculate the age of each person at the time when influenza symptomology began.

From these data, we set out to establish trends in person,

place and time relating to influenza cases in the KFL&A region between October 01, 2001 and April 30, 2002.

Results

Influenza A

A total of 65 cases of Influenza A were identified during this time period. Thirty-three cases (50.8%) were confirmed with Ag Detection, 13 (20.0%) were confirmed with virus isolation, and 19 (29.2%) cases were confirmed using both methods.

Of these 65 individuals, 23 (35.4%) were vaccinated, 41 were not, and the vaccination status for one was unknown. The ages of vaccinated and unvaccinated cases differed significantly. The mean age for the vaccinated cases was 71.9 years (95% CI= 59.3, 84.5) while the mean age for non-vaccinated cases was 30.4 years (CI=22.3, 38.5). The largest proportion of Influenza A cases occurred in a residential facility (35.4%), followed by those whose risk setting was identified as school (26.2%).

Vaccination rates varied from location to location. Residential facilities had the highest percentage of vaccination, with 82.6% of cases having been vaccinated prior to illness. Conversely, schools had the lowest vaccination rates with only 5.9% of all cases being vaccinated prior to illness.

Of 65 Influenza A cases, 3 resulted in death. One involved an unvaccinated 4-month old baby living at home. The remaining two cases were elderly individuals (81 and 86 years old) living in a residential facility, one of whom had been vaccinated against influenza.

An additional 3 individuals were reported as having pneumonia complications. The youngest was an adult who identified the workplace as the risk setting, while the 2 other cases were elderly individuals who lived in a residential facility.

Influenza B

A total of 14 cases of Influenza B were confirmed during this time period. Thirteen cases were confirmed via virus detection alone and 1 case was confirmed via AG detect.

Of these 14 cases, 2 (14.3%) were vaccinated, and 12 were not. Of the vaccinated cases, one was in the 0-4 and one in the 20-24 age groups. The mean age for non-vaccinated cases was 14.0 years (CI=7.5, 20.4). Unlike with Influenza A cases, the age distribution of cases of Influenza B was much narrower, with the eldest case being 26 years of age at time of case ascertainment. Schools were

reported as the risk setting for the largest number of cases (42.9%), followed by homes (21.4%).

It should also be noted that no cases of Influenza B resulted in death or complications.

Observations

Influenza A

The mean ages of vaccinated and unvaccinated cases of Influenza A were significantly different at 71.9 years and 30.6 years, respectively.

The largest percentage of cases occurred in individuals aged 65 and above (38.5%). Of these 18 cases, 80.0% lived in a residential facility, and the remaining 20.0% reporting contracting the illness at home.

The majority of cases under the age of 65 were not vaccinated prior to confirmation of illness, while nearly three quarters (72.0%) of those 65 and above had been. In addition, 90% of residential facility cases aged 65 and above were vaccinated. The large proportion of these vaccinated cases may have occurred because institutionalized residents were vaccinated in November 2001, and the immunization is effective for only 3-4 months, thereby increasing their susceptibility to influenza in March and April. This may also explain the large difference in mean age between vaccinated and unvaccinated cases.

Influenza B

Firstly, it is important to note that the total number of Influenza B cases was small, so the results should be interpreted with caution.

Influenza B seemed to affect younger individuals. It appears that Influenza B's primarily affected school-aged children. In addition, no cases resulted in fatality or complications and the numbers were lower despite a lower total percentage of vaccinated cases (14.3%).

Conclusion

Influenza A is the more virulent of the two types of influenza. cases reported to RDIS since October 2001, especially in institutional settings, reflect this fact. During this period there were a total of 79 cases, 65 of whom were positively identified as Influenza A, and an additional 14 cases identified as Influenza B. Three cases of Influenza A resulted in death, and an additional 3 cases were reported as having suffered from complications, in this case pneumonia.

It should be noted that the numbers reported here are con-

firmed cases which may not be an accurate reflection of the burden of illness in the population. Younger cases or cases living in places other than residential settings may not request medical attention for their illness, thereby resulting in a lower number of reported younger/non-residential cases. In addition, because residents of facilities are under frequent medical scrutiny, it is likely that these cases were more frequently reported than cases in the general population, and were also tested more often.

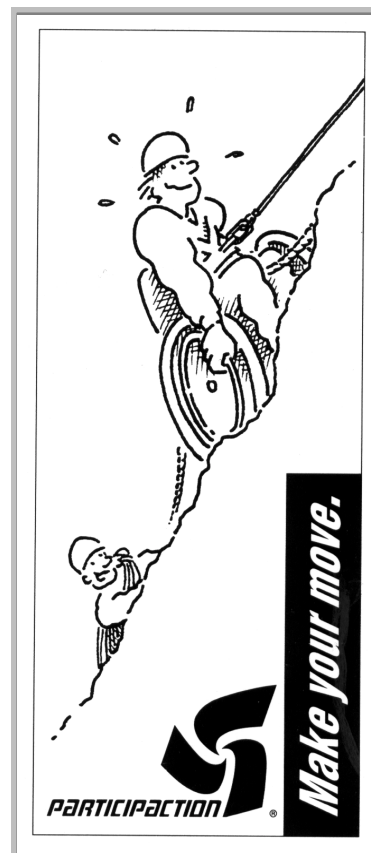
Despite these caveats, some interesting trends and questions have been identified and warrant additional research:

- Whether older individuals, especially those living in a residential setting should be vaccinated twice per influenza season - once just prior to influenza season, and again 3-4 months later, at which point their immunization will likely have worn off, when Influenza continues to be a concern;
- Whether cases who had been vaccinated prior to illness had milder symptoms than those who were not vaccinated.



SOURCE AND CONTACT

Elizabeth Rolland, M.Sc.
Epidemiologist, PHRED Program
KFL&A Health Unit



Summary of Reportable Diseases in Ontario - January, 2003

Health Units by Region	Population 2000	AIDS	Campylo.	Chicken- pox	Chlamydia	Enceph./ Meningitis	GAS	Gonorrhea
Algoma	125,109		2	9	10	1	1	1
North Bay	93,505		1	9	9			
Northwestern	91,920			7	23			3
Porcupine	93,680		1	9	21		1	
Sudbury	199,619		1	1	25	1		1
Thunder Bay	158,698		1		41			7
Timiskaming	37,721				3			
Total - Northern	800,252		6	35	132	2	2	12
Eastern Ontario	194,945		5	1	8			
Hastings & Prince Edward	159,088		1		24		1	1
Kingston, Frontenac & Lennox	180,225			3	35	1	2	
Leeds, Grenville & Lanark	163,143		2				2	
Ottawa	779,274		21	64	114	3	2	13
Renfrew	101,131		1	1	2		1	
Total - Eastern	1,577,806		30	69	183	4	6	14
Durham	512,271		3	196	52	1	3	4
Haliburton-Kawartha	168,120		3		4	1	1	
Muskoka-Parry Sound	86,218			2	3			
Peel	1,008,163	1	33	132	108	1	3	20
Peterborough	128,881		2	4	15			1
Simcoe	377,405		5	8	7			
Toronto - total	2,542,844	4	69	158	585	7	6	137
<i>North</i>	<i>627,021</i>		<i>14</i>	<i>41</i>	<i>122</i>	<i>1</i>	<i>2</i>	<i>26</i>
<i>South</i>	<i>688,584</i>	<i>2</i>	<i>27</i>	<i>40</i>	<i>199</i>	<i>3</i>	<i>1</i>	<i>74</i>
<i>East</i>	<i>717,937</i>	<i>1</i>	<i>15</i>	<i>58</i>	<i>155</i>	<i>2</i>	<i>2</i>	<i>25</i>
<i>West</i>	<i>509,302</i>	<i>1</i>	<i>13</i>	<i>19</i>	<i>109</i>	<i>1</i>	<i>1</i>	<i>12</i>
York	724,969		34		42	2	3	7
Total - Central East	5,548,871	5	149	500	816	12	16	169
Grey Bruce	157,664			8	15			
Elgin-St. Thomas	84,182			24	7			
Huron	61,097		1		2			
Chatham-Kent	112,897		1		2	1		
Lambton	131,643				2			
Middlesex-London	412,976		4		28		1	8
Oxford	102,561		1		10		1	1
Perth	75,238			16	7			
Windsor-Essex	381,672		8		42		3	6
Total - Southwest	1,519,930		15	48	115	1	5	15
Brant	126,481			43	16		3	
Haldimand-Norfolk	109,536		3	25	9		1	
Halton	375,705		3		11	1	1	2
Hamilton	498,553	1	8	14	79		4	5
Niagara	423,600		8		43		3	7
Waterloo	446,833	1	5	36	69	2	8	3
Wellington-Dufferin-Guelph	241,777		3	18	18	1	2	
Total - Central West	2,222,485	2	30	136	245	4	22	17
January 2003	11,669,344	7	230	788	1,491	23	53	227
* Total YTD 2003	-	7	230	788	1,491	23	53	227
* Total YTD 2002	-	11	270	1,373	1,591	34	46	308

The Toronto City regions above are now defined as: North - former North York; South - former City of Toronto; West - former Etobicoke and City of York; East - former Scarborough and East York

** Infectious syphilis cases include 'Primary, Secondary and Early Latent' staging effective January 1, 2003

* Adjusted for deletions and late reports.

Summary of Reportable Diseases in Ontario - January, 2003

Health Units by Region	Population 2000	Hepatitis A	Hepatitis B	Hepatitis C	Hib	Influenza	Measles	Meningo- coccal
Algoma	125,109			10				
North Bay	93,505			4		2		
Northwestern	91,920			1				
Porcupine	93,680			2		5		
Sudbury	199,619			9		4		
Thunder Bay	158,698			4				
Timiskaming	37,721					3		
Total - Northern	800,252			30		14		
Eastern Ontario	194,945		1	1	1	4		
Hastings & Prince Edward	159,088			2		1		
Kingston, Frontenac & Lennox	180,225			2		9		
Leeds, Grenville & Lanark	163,143			5		2		
Ottawa	779,274			44		6		
Renfrew	101,131					2		1
Total - Eastern	1,577,806		1	54	1	24		1
Durham	512,271	1				4		
Haliburton-Kawartha	168,120			6		5		
Muskoka-Parry Sound	86,218					3		
Peel	1,008,163	1	1	24		26		1
Peterborough	128,881			8		2		
Simcoe	377,405			20		5		
Toronto - total	2,542,844	3	6	134		17		1
<i>North</i>	<i>627,021</i>		<i>3</i>	<i>26</i>		<i>2</i>		
<i>South</i>	<i>688,584</i>	<i>1</i>	<i>3</i>	<i>55</i>		<i>5</i>		
<i>East</i>	<i>717,937</i>	<i>2</i>		<i>26</i>		<i>7</i>		<i>1</i>
<i>West</i>	<i>509,302</i>			<i>27</i>		<i>3</i>		
York	724,969			16		10		1
Total - Central East	5,548,871	5	7	208		72		3
Grey Bruce	157,664		1	3		3		
Elgin-St. Thomas	84,182			3				
Huron	61,097							
Chatham-Kent	112,897			5				
Lambton	131,643					7		
Middlesex-London	412,976			13		1		
Oxford	102,561			1		7		
Perth	75,238			1		3		
Windsor-Essex	381,672			17		1		
Total - Southwest	1,519,930		1	43		22		
Brant	126,481			6		4		
Haldimand-Norfolk	109,536			1		7		
Halton	375,705			9		3		2
Hamilton	498,553			22		15		
Niagara	423,600	1	1	34		4		
Waterloo	446,833			9		3		
Wellington-Dufferin-Guelph	241,777			3		10		
Total - Central West	2,222,485	1	1	84		46		2
January 2003	11,669,344	6	10	419	1	178		6
* Total YTD 2003		6	10	419	1	178		6
* Total YTD 2002		11	14	488		271		4

The Toronto City regions above are now defined as: North - former North York; South - former City of Toronto; West - former Etobicoke and City of York; East - former Scarborough and East York

** Infectious syphilis cases include 'Primary, Secondary and Early Latent' staging effective January 1, 2003

* Adjusted for deletions and late reports.

Summary of Reportable Diseases in Ontario - January, 2003

Health Units by Region	Population 2000	Mumps	Pertussis	Rubella	Salmon.	Shigellosis	Syphilis Infectious **	VTEC
Algoma	125,109		1					
North Bay	93,505				1			
Northwestern	91,920							
Porcupine	93,680		2		1			
Sudbury	199,619				2			
Thunder Bay	158,698							
Timiskaming	37,721							
Total - Northern	800,252		3		4			
Eastern Ontario	194,945				1			1
Hastings & Prince Edward	159,088				2			
Kingston, Frontenac & Lennox	180,225							
Leeds, Grenville & Lanark	163,143				1			
Ottawa	779,274		7		11	2		
Renfrew	101,131	1						
Total - Eastern	1,577,806	1	7		15	2		1
Durham	512,271				7	1		
Haliburton-Kawartha	168,120							
Muskoka-Parry Sound	86,218							
Peel	1,008,163		3		19	6	1	1
Peterborough	128,881							1
Simcoe	377,405				5			
Toronto - total	2,542,844			1	31	6	17	
North	627,021			1	12	2		
South	688,584				9	1	17	
East	717,937				5	2		
West	509,302				5	1		
York	724,969				23	3		
Total - Central East	5,548,871		3	1	85	16	18	2
Grey Bruce	157,664							
Elgin-St. Thomas	84,182							
Huron	61,097				1			
Chatham-Kent	112,897					1		
Lambton	131,643							
Middlesex-London	412,976							
Oxford	102,561							
Perth	75,238							
Windsor-Essex	381,672				4	1		1
Total - Southwest	1,519,930				5	2		1
Brant	126,481							1
Haldimand-Norfolk	109,536							
Halton	375,705		4		3			
Hamilton	498,553		1		5	1		65
Niagara	423,600	1			10	1	1	1
Waterloo	446,833		1		4			
Wellington-Dufferin-Guelph	241,777							
Total - Central West	2,222,485	1	6		22	2	1	67
January 2003	11,669,344	2	19	1	131	22	19	71
* Total YTD 2003	-	2	19	1	131	22	19	71
* Total YTD 2002	-	3	80		190	25	5	11

The Toronto City regions above are now defined as: North - former North York; South - former City of Toronto; West - former Etobicoke and City of York; East - former Scarborough and East York

** Infectious syphilis cases include 'Primary, Secondary and Early Latent' staging effective January 1, 2003

Summary of Reportable Diseases

4th Quarter, 2002

Ministry of Health and Long-Term Care



Ontario

Summary of Reportable Diseases in Ontario - 4th Quarter 2002

Health Units by Region	Population 2000	AIDS	Campylo.	Chicken-pox	Chlamydia	Enceph./Meningitis	GA5	Gonorrhea
Algoma	125,109		4	61	57		2	3
North Bay	93,505		5	19	29	1	3	
Northwestern	91,920			7	38			3
Porcupine	93,680		3	132	29			
Sudbury	199,619		7	5	81	1	2	3
Thunder Bay	158,698		10		89		1	15
Timiskaming	37,721				14			
Total - Northern	800,252		29	224	337	2	8	24
Eastern Ontario	194,945		12	5	28	2	2	1
Hastings & Prince Edward	159,088		9		62		1	
Kingston, Frontenac & Lennox	180,225			24	81	4	3	
Leeds, Grenville & Lanark	163,143		5				1	
Ottawa	779,274	3	51	155	299	4	6	41
Renfrew	101,131		2	3	22	1		
Total - Eastern	1,577,806	3	79	187	492	11	13	42
Durham	512,271		22	505	166	1	1	18
Haliburton-Kawartha	168,120		14		28	1		1
Muskoka-Parry Sound	86,218		1	3	19		3	2
Peel	1,008,163	1	87	269	389	15	2	82
Peterborough	128,881		3	78	54	2	2	4
Simcoe	377,405		29	81	85	8	1	6
Toronto - total	2,542,844	14	286	476	1,563	30	28	453
<i>North</i>	<i>627,021</i>		<i>58</i>	<i>195</i>	<i>328</i>	<i>5</i>	<i>5</i>	<i>77</i>
<i>South</i>	<i>688,584</i>	<i>13</i>	<i>108</i>	<i>118</i>	<i>543</i>	<i>9</i>	<i>10</i>	<i>216</i>
<i>East</i>	<i>717,937</i>	<i>1</i>	<i>76</i>	<i>53</i>	<i>434</i>	<i>10</i>	<i>7</i>	<i>100</i>
<i>West</i>	<i>509,302</i>		<i>44</i>	<i>110</i>	<i>258</i>	<i>6</i>	<i>6</i>	<i>60</i>
York	724,969		113		159	6	5	14
Total - Central East	5,548,871	15	555	1,412	2,463	63	42	580
Grey Bruce	157,664		4	5	22	1	1	1
Elgin-St. Thomas	84,182		2	70	12			1
Huron	61,097		5	26	8		1	1
Chatham-Kent	112,897		2	42	30	2		1
Lambton	131,643				1			
Middlesex-London	412,976	1	16		164	8	4	28
Oxford	102,561		6		34	1		4
Perth	75,238		19	16	13		1	
Windsor-Essex	381,672		26	219	132	9	1	7
Total - Southwest	1,519,930	1	80	378	416	21	8	43
Brant	126,481		6	61	57		3	2
Haldimand-Norfolk	109,536	1	5	6	27			
Halton	375,705		40	6	24	2	3	
Hamilton	498,553		20	106	189	12	10	28
Niagara	423,600		37	194	125	2	6	14
Waterloo	446,833	1	40	85	181	7	5	25
Wellington-Dufferin-Guelph	241,777		17	24	70	2	1	2
Total - Central West	2,222,485	2	165	482	673	25	28	71
4th Quarter 2002	11,669,344	21	908	2,683	4,381	122	99	760
* Total YTD 2002	-	101	4,520	14,953	17,929	838	375	3,035
* Total YTD 2001	-	144	5,001	11,919	16,207	534	326	2,934

The Toronto City regions above are now defined as: North - former North York; South - former City of Toronto; West - former Etobicoke and City of York; East - former Scarborough and East York

* Adjusted for deletions and late reports.

Summary of Reportable Diseases in Ontario - 4th Quarter 2002

Health Units by Region	Population 2000	PPNG	Hepatitis A	Hepatitis B	Hepatitis C	Hib	Influenza	Measles	Meningo- coccal
Algoma	125,109				7		6		
North Bay	93,505				3		3		
Northwestern	91,920				7				
Porcupine	93,680			1	4				
Sudbury	199,619		2	1	26				
Thunder Bay	158,698	1		1	21				
Timiskaming	37,721		1	1	2				
Total - Northern	800,252	1	3	4	70		9		
Eastern Ontario	194,945		1		9				1
Hastings & Prince Edward	159,088		1	1	11		3		2
Kingston, Frontenac & Lennox	180,225			1	71		1		1
Leeds, Grenville & Lanark	163,143		1	1	15				1
Ottawa	779,274	3	1	1	98		13	1	1
Renfrew	101,131				5		1		
Total - Eastern	1,577,806	3	4	4	209		18	1	6
Durham	512,271		1				29		
Haliburton-Kawartha	168,120			1	22		3		
Muskoka-Parry Sound	86,218				8		4		
Peel	1,008,163	1	8	2	121		75		2
Peterborough	128,881				25		1		1
Simcoe	377,405	3			51		11		
Toronto - total	2,542,844	23	13	8	332		121		1
<i>North</i>	<i>627,021</i>	<i>1</i>			<i>90</i>		<i>26</i>		
<i>South</i>	<i>688,584</i>	<i>18</i>	<i>8</i>	<i>3</i>	<i>117</i>		<i>39</i>		
<i>East</i>	<i>717,937</i>	<i>2</i>	<i>4</i>	<i>3</i>	<i>67</i>		<i>22</i>		
<i>West</i>	<i>509,302</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>58</i>		<i>34</i>		<i>1</i>
York	724,969	4	3		62		33		
Total - Central East	5,548,871	31	25	11	621		277		4
Grey Bruce	157,664				12		9		
Elgin-St. Thomas	84,182				8		3		
Huron	61,097				2		7		
Chatham-Kent	112,897				38				
Lambton	131,643						1		
Middlesex-London	412,976	2			45		5		1
Oxford	102,561				2		14		
Perth	75,238				5		16		
Windsor-Essex	381,672				45		2		1
Total - Southwest	1,519,930	2			157		57		2
Brant	126,481	1		1	3	1	1		
Haldimand-Norfolk	109,536			1	10		6		
Halton	375,705		1	2	29		21		
Hamilton	498,553	1		1	87	1	44		2
Niagara	423,600			1	68	1	4		
Waterloo	446,833	1			27		24		
Wellington-Dufferin-Guelph	241,777				12		36		1
Total - Central West	2,222,485	3	1	6	236	3	136		3
4th Quarter 2002	11,669,344	40	33	25	1,293	3	497	1	15
* Total YTD 2002	-	200	148	125	5,185	6	2,672	1	59
* Total YTD 2001	-	169	173	128	5,484	6	788	6	105

The Toronto City regions above are now defined as: North - former North York; South - former City of Toronto; West - former Etobicoke and City of York;

East - former Scarborough and East York

* Adjusted for deletions and late reports.

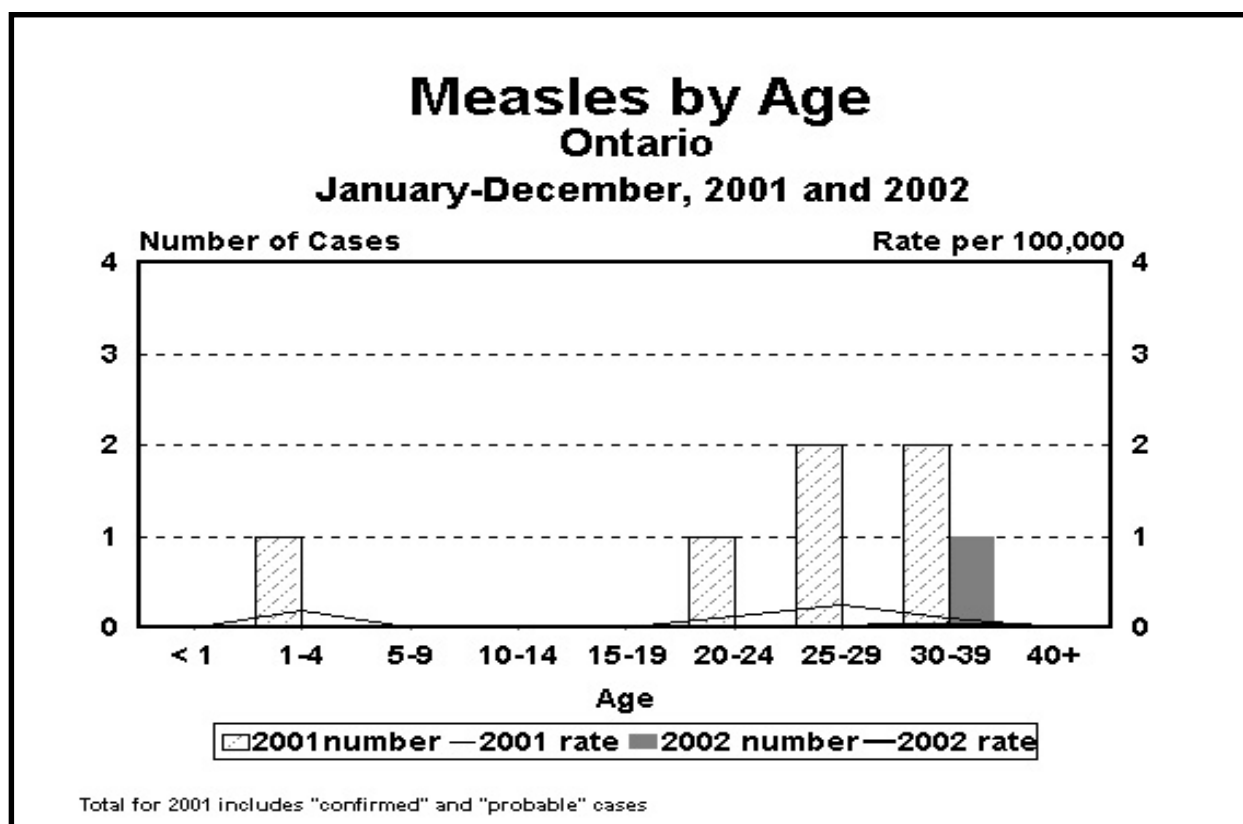
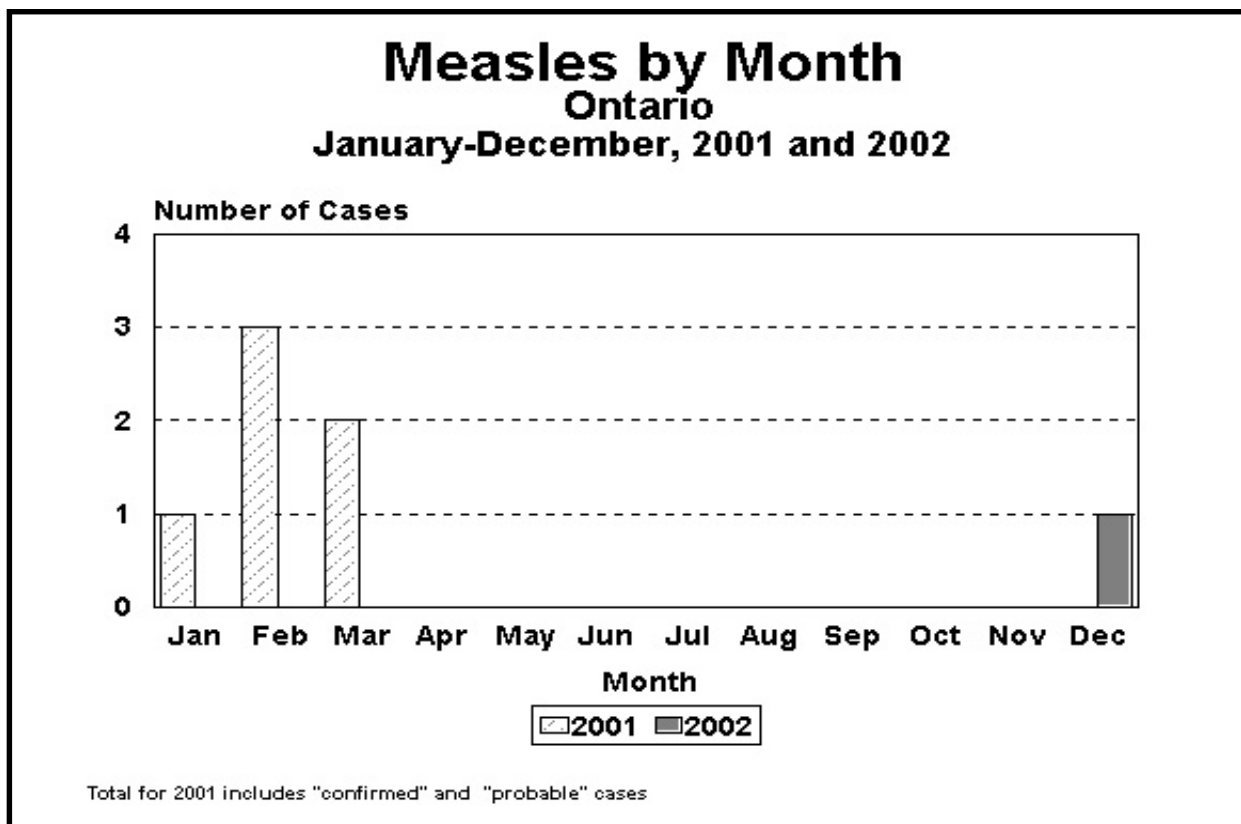
Summary of Reportable Diseases in Ontario - 4th Quarter 2002

Health Units by Region	Population 2000	Mumps	Pertussis	Rubella	Salmon.	Shigellosis	Syphilis (Prim/Sec)	VTEC
Algoma	125,109		1		4			
North Bay	93,505		4		6			2
Northwestern	91,920							
Porcupine	93,680		7					
Sudbury	199,619		6		4		1	3
Thunder Bay	158,698		1		8			2
Timiskaming	37,721				2			
Total - Northern	800,252		19		24		1	7
Eastern Ontario	194,945		2		6			2
Hastings & Prince Edward	159,088		1		8			
Kingston, Frontenac & Lennox	180,225		4					
Leeds, Grenville & Lanark	163,143		1		1			1
Ottawa	779,274	1	18		30	10	1	4
Renfrew	101,131				2			
Total - Eastern	1,577,806	1	26		47	10	1	7
Durham	512,271				27	3	1	1
Haliburton-Kawartha	168,120		4		7			2
Muskoka-Parry Sound	86,218		2		3	2		
Peel	1,008,163		2		44	8		11
Peterborough	128,881	1	17		2			1
Simcoe	377,405		1		7	1		1
Toronto - total	2,542,844		15		139	32	66	8
<i>North</i>	<i>627,021</i>		<i>6</i>		<i>37</i>	<i>3</i>	<i>2</i>	<i>2</i>
<i>South</i>	<i>688,584</i>				<i>30</i>	<i>20</i>	<i>59</i>	<i>3</i>
<i>East</i>	<i>717,937</i>		<i>5</i>		<i>49</i>	<i>5</i>	<i>3</i>	<i>2</i>
<i>West</i>	<i>509,302</i>		<i>4</i>		<i>23</i>	<i>4</i>	<i>2</i>	<i>1</i>
York	724,969		9		43	4	3	4
Total - Central East	5,548,871	1	50		272	50	70	28
Grey Bruce	157,664		2		3			1
Elgin-St. Thomas	84,182		3			1		
Huron	61,097		1		4			
Chatham-Kent	112,897		1		2			
Lambton	131,643							
Middlesex-London	412,976		1		14			
Oxford	102,561		2		6			3
Perth	75,238		7		1			
Windsor-Essex	381,672				32	1		1
Total - Southwest	1,519,930		17		62	2		5
Brant	126,481				3			3
Haldimand-Norfolk	109,536	1			6			1
Halton	375,705		2		13	4		
Hamilton	498,553		2		20	2		5
Niagara	423,600		1		24	3		8
Waterloo	446,833		6		20			2
Wellington-Dufferin-Guelph	241,777		2		8	1	1	2
Total - Central West	2,222,485	1	13		94	10	1	21
4th Quarter 2002	11,669,344	3	125		499	72	73	68
* Total YTD 2002	-	14	506	2	2,390	844	174	370
* Total YTD 2001	-	17	455	16	2,489	231	24	352

The Toronto City regions above are now defined as: North - former North York; South - former City of Toronto; West - former Etobicoke and City of York; East - former Scarborough and East York

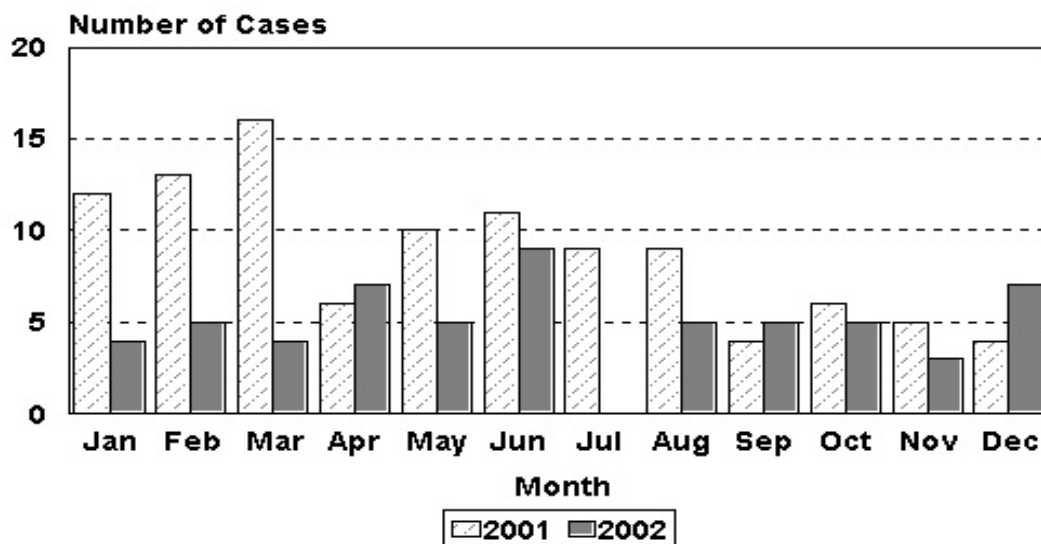
* Adjusted for deletions and late reports.

Vaccine Preventable and Other Diseases

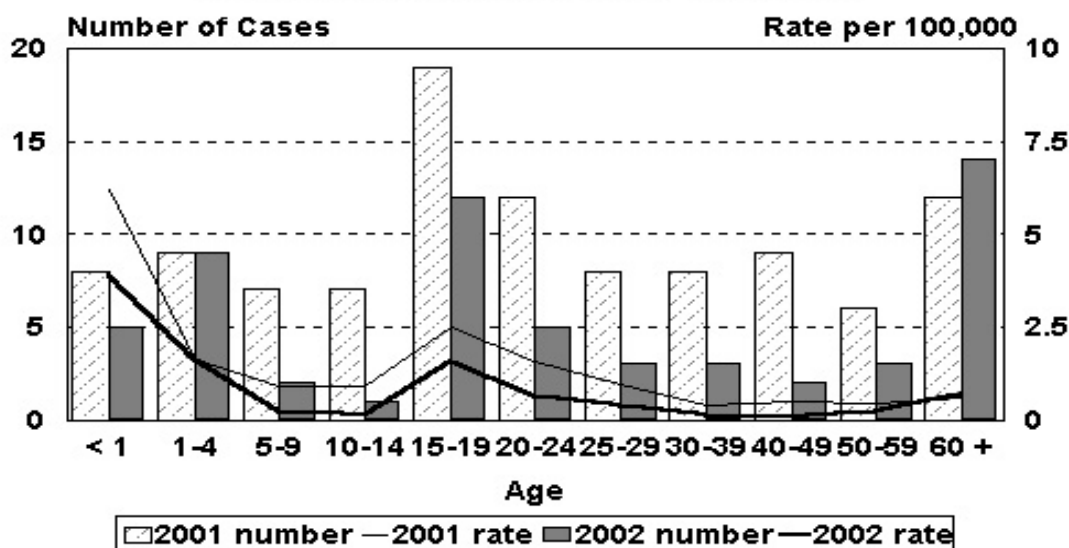


Vaccine Preventable and Other Diseases

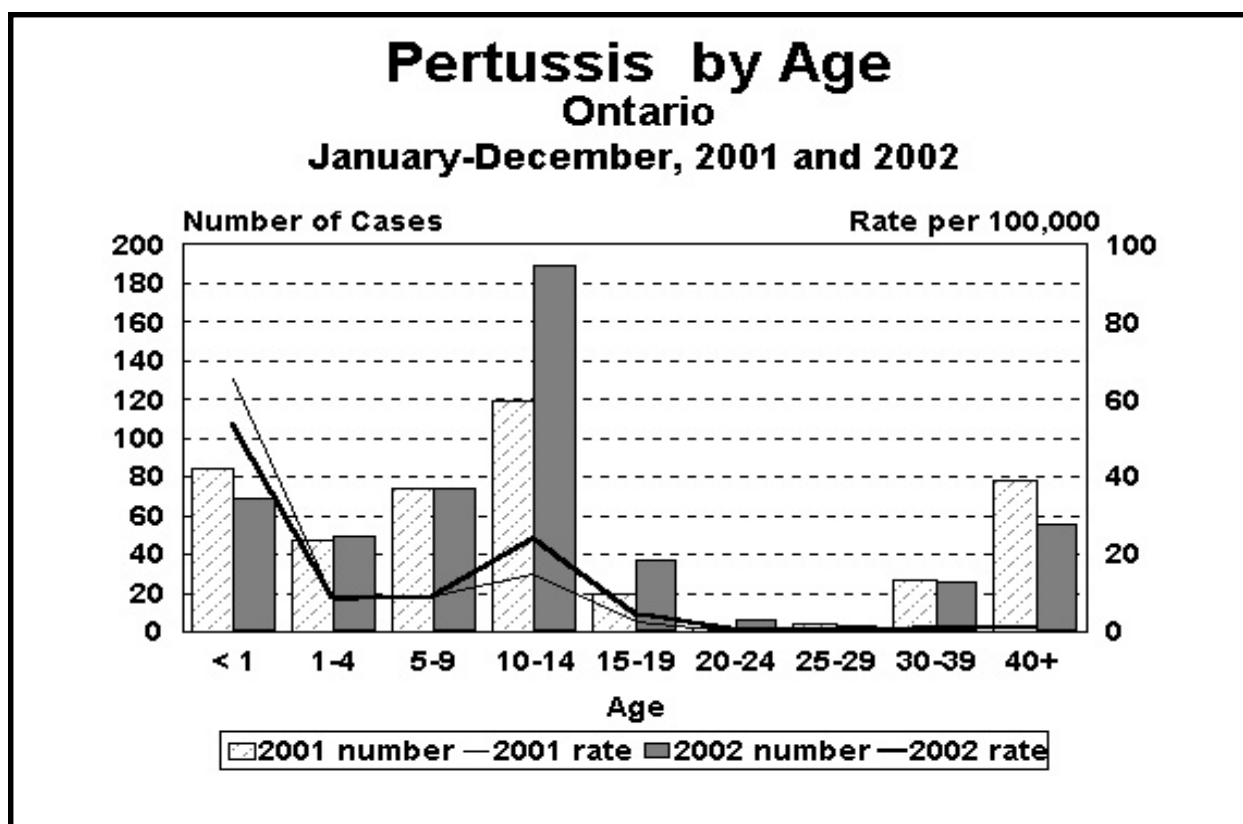
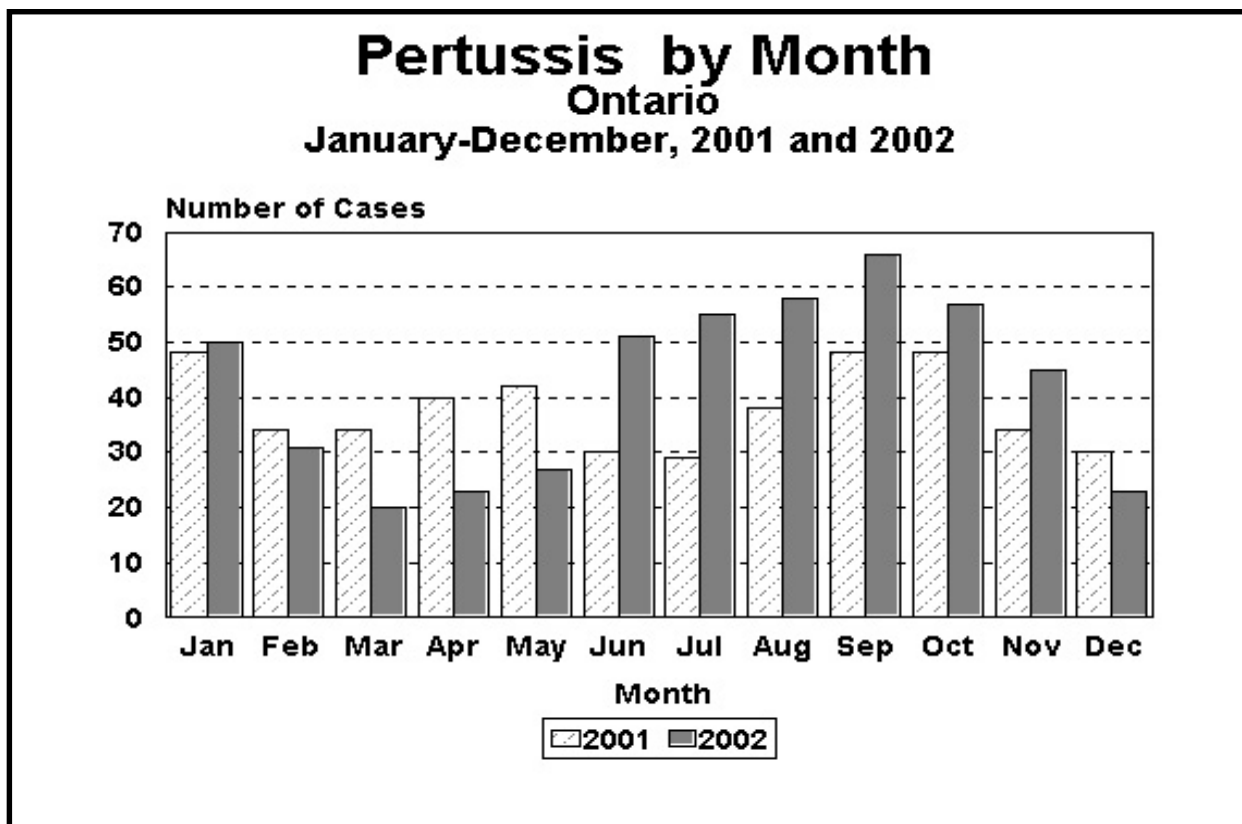
Meningococcal Disease by Month Ontario January-December, 2001 and 2002



Meningococcal Disease by Age Ontario January-December, 2001 and 2002



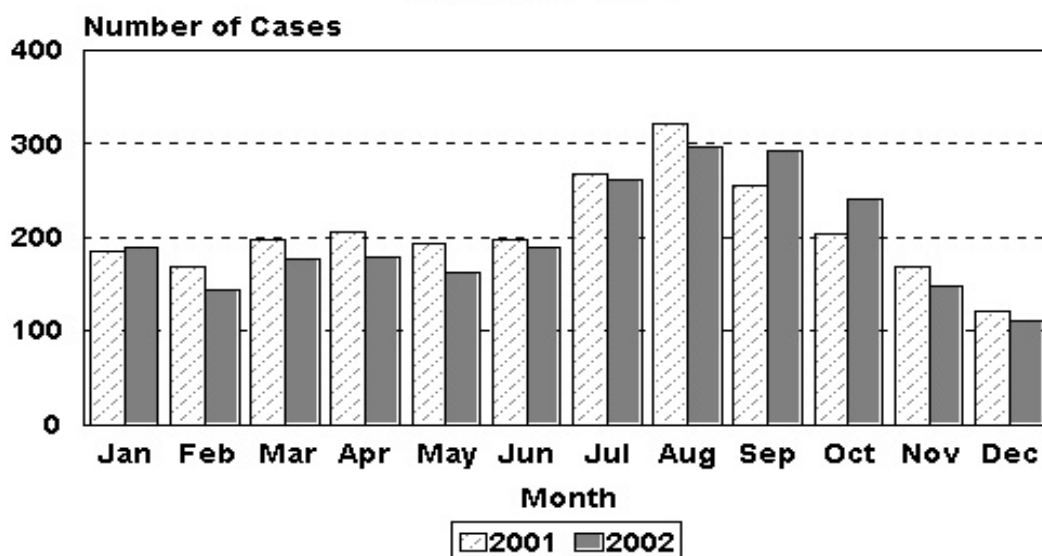
Vaccine Preventable and Other Diseases



Enteric Diseases

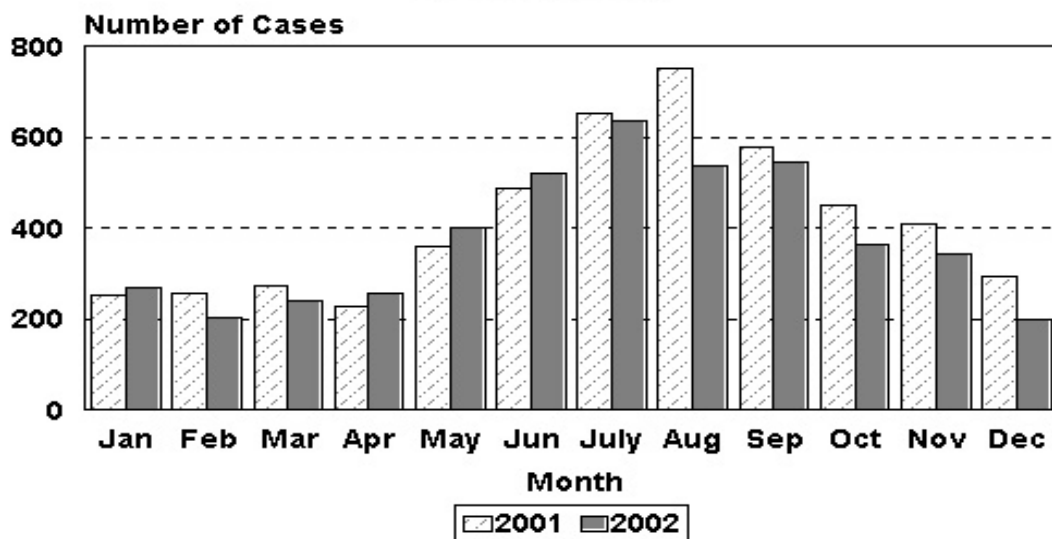
Salmonellosis by Month

Ontario
2001 to 2002



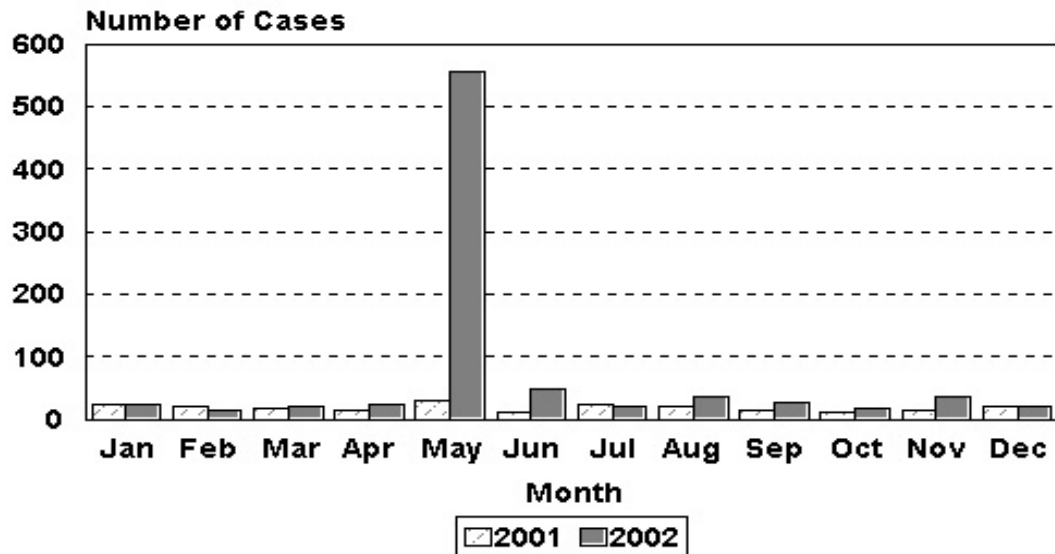
Campylobacter by Month

Ontario
2001 to 2002

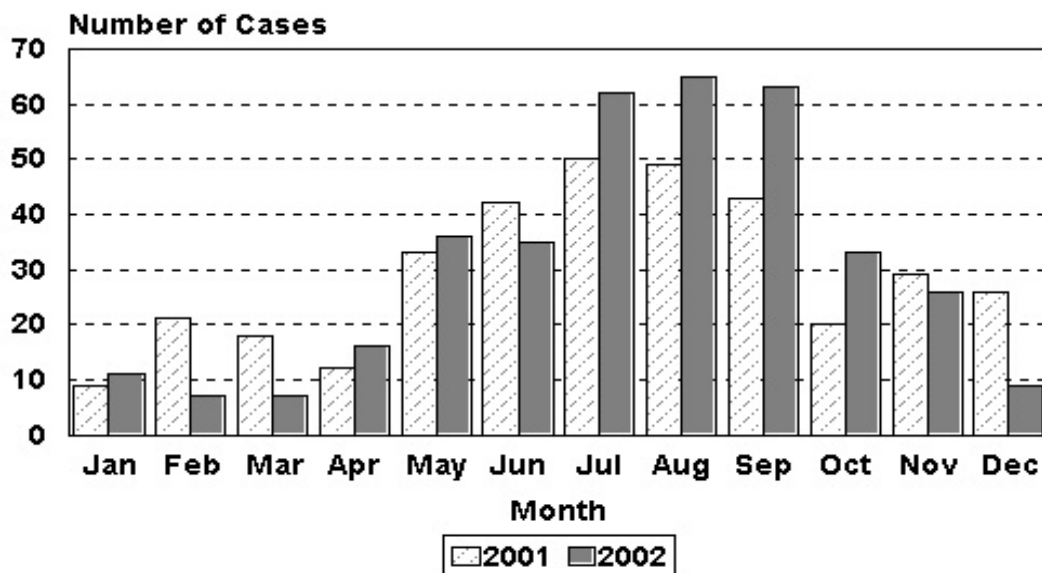


Enteric Diseases

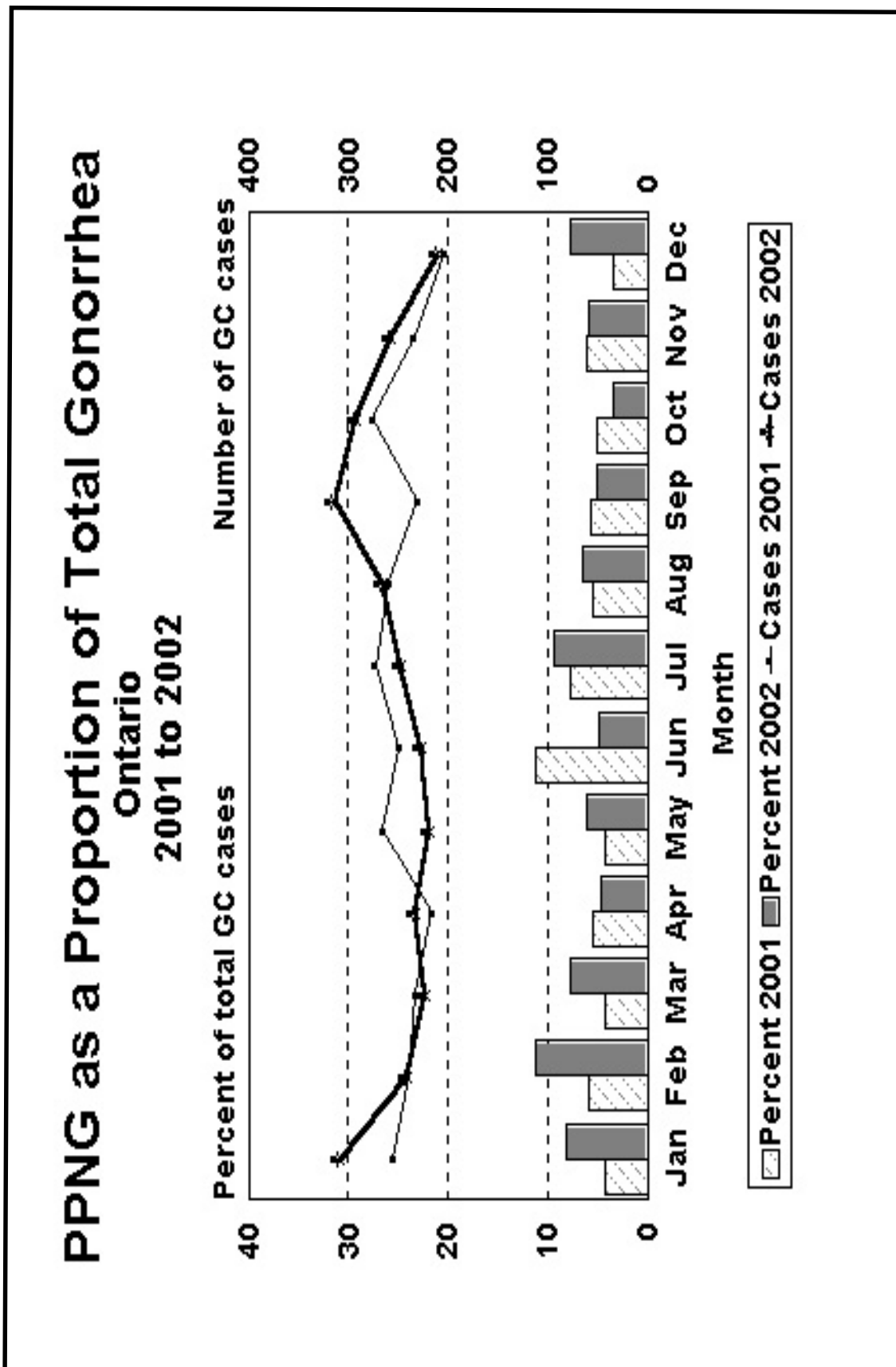
Shigellosis by Month Ontario 2001 to 2002



Verotoxin-Producing E. coli Infections Ontario 2001 to 2002

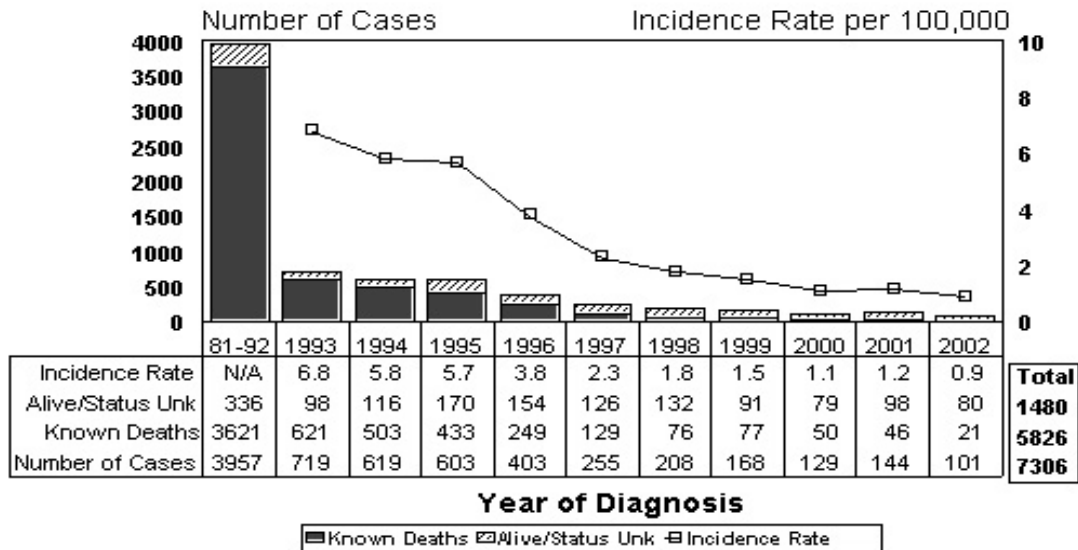


Sexually Transmitted Diseases



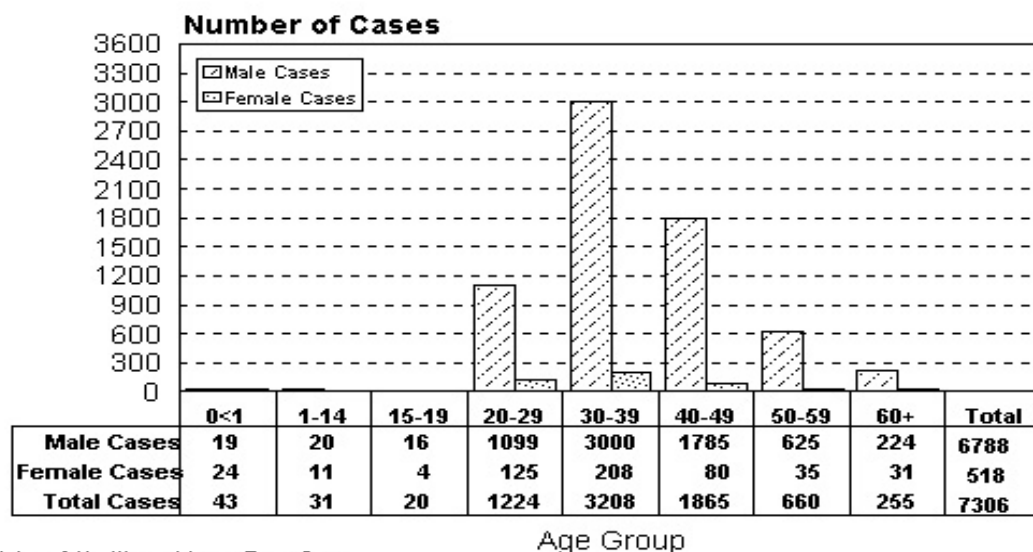
Sexually Transmitted Diseases

AIDS in Ontario Incidence by Year of Diagnosis



Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

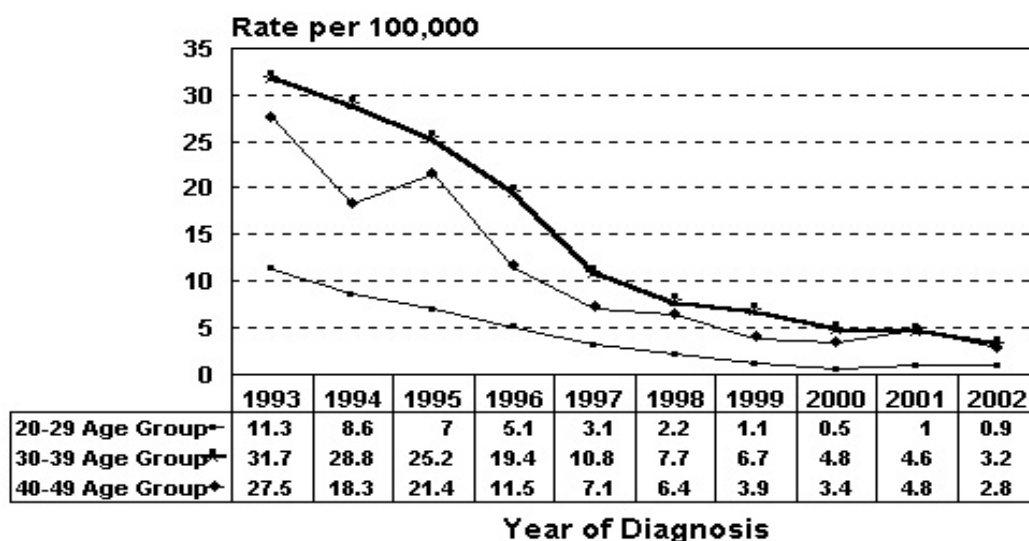
AIDS in Ontario Cases by Age and Sex



Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

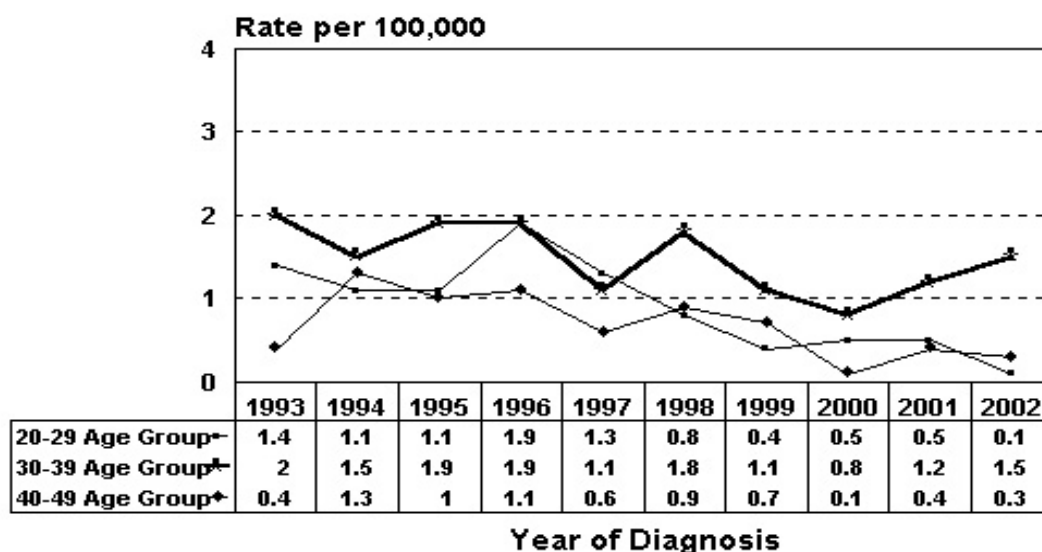
Sexually Transmitted Diseases

Males AIDS Rates for Selected Age Group Ontario, 1993-2002



Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

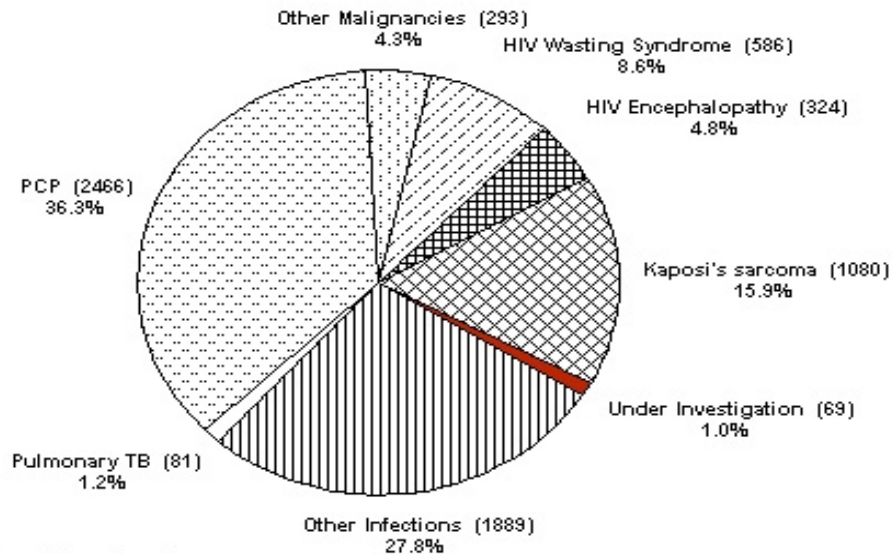
Females AIDS Rates for Selected Age Group Ontario, 1993-2002



Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

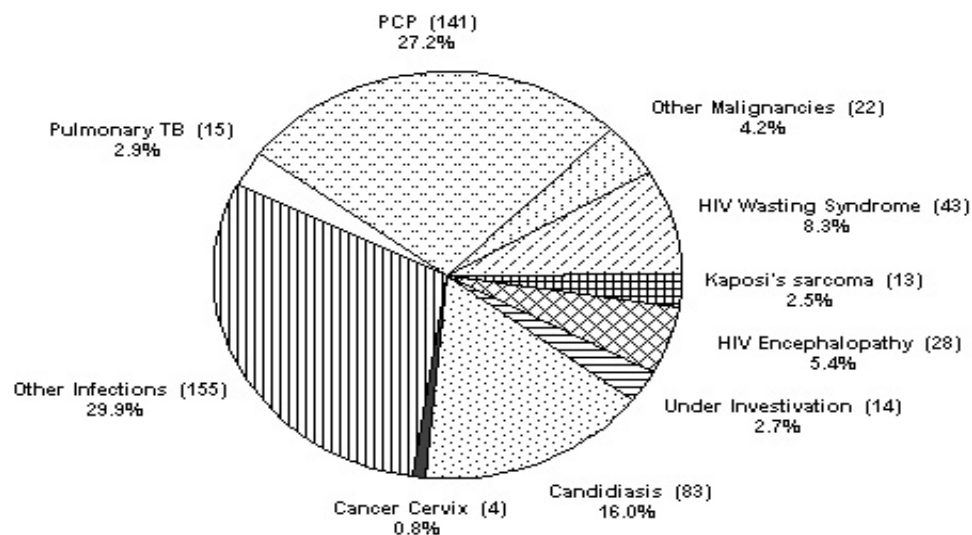
Sexually Transmitted Diseases

AIDS in Ontario Primary Disease for Males



n= 6788
Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

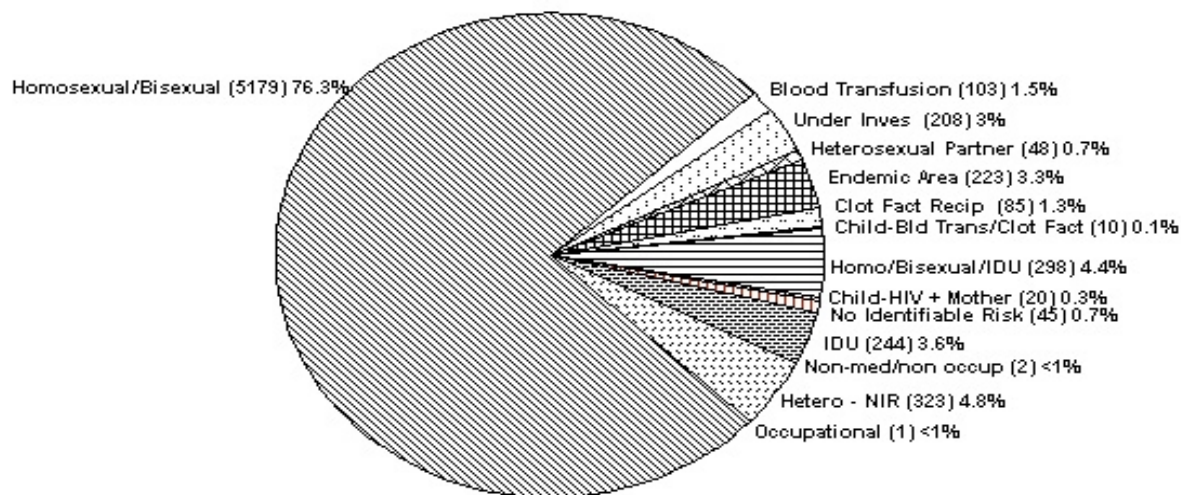
AIDS in Ontario Primary Disease for Females



n= 518
Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

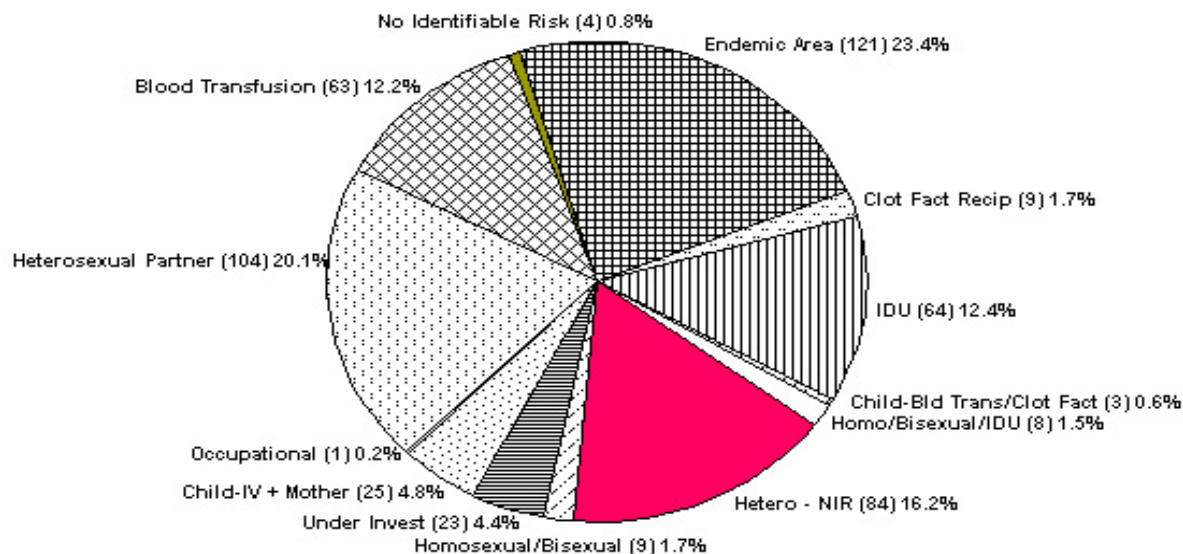
Sexually Transmitted Diseases

AIDS in Ontario Risk Exposure Categories for Males



n= 6788
Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

AIDS in Ontario Risk Exposure Categories for Females



n= 518
Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

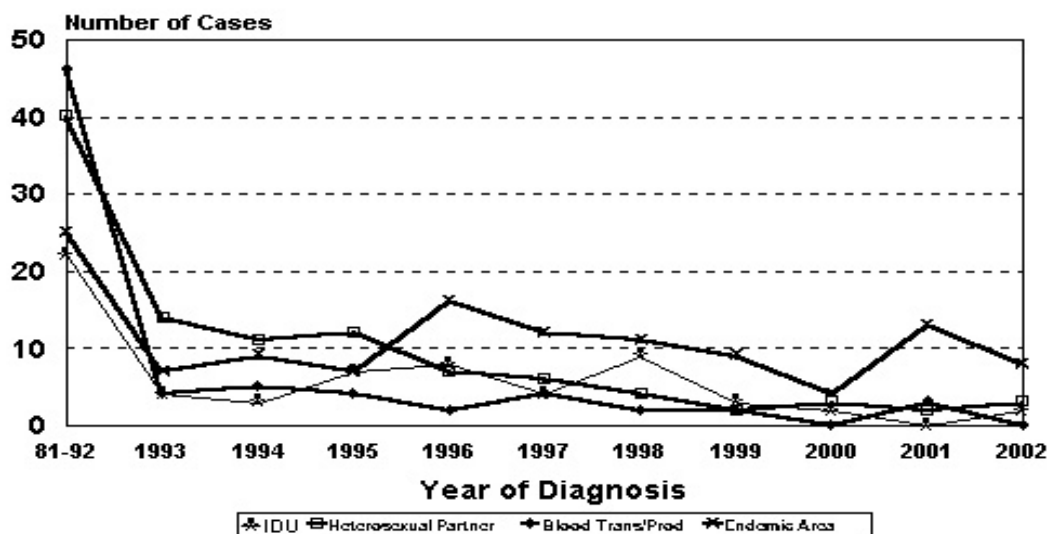
Sexually Transmitted Diseases

AIDS Risk Exposure by Year in Males Ontario, 1981- 2002

Risk Exposure	81-92	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Totals
Homosexual/Bisexual	3067	518	450	403	241	148	110	84	62	57	39	5179
IDU	90	24	20	25	22	14	8	12	12	11	6	244
Homo/Bisexual/IDU	154	34	34	31	19	7	7	3	4	3	2	298
Clot Fact Recip	54	7	3	10	3	3	2	1	0	1	0	94
Endemic Area	64	15	12	17	27	17	14	15	10	17	15	223
Heterosexual Partner	17	8	5	3	2	2	4	1	2	3	1	49
Blood Transfusion	73	4	4	6	3	4	4	1	3	1	0	103
Occupational (possible)	1	0	0	0	0	0	0	0	0	0	0	1
Child-HIV + Mother	8	1	2	3	3	2	0	0	1	0	0	20
Child-Bld Trans/Clot Fact	9	0	1	0	0	0	0	0	0	0	0	10
Hetero-NIR	116	37	24	38	25	18	13	15	14	16	7	323
No Identifiable Risk	33	2	3	3	1	0	1	1	0	1	0	45
Under Investigation	92	27	17	18	12	9	4	9	4	8	8	208
Non-med/hon occup	0	0	0	0	0	1	1	0	0	0	0	2

Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

AIDS in Ontario Selected Risk Factors for Females



Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

AIDS in Ontario

Number of Cases per Health Unit Area of Residence at time of Onset/Diagnosis

Responsible Health Unit	Number	Per cent
Algoma	12	0.2%
Brant County	32	0.4%
Grey-Bruce	27	0.4%
Durham Region	110	1.5%
Eastern Ontario	32	0.4%
Elgin-St. Thomas	13	0.2%
Haldimand-Norfolk	21	0.3%
Haliburton, Kawartha	18	0.2%
Halton Region	91	1.2%
City of Hamilton	206	2.8%
Hastings & Prince Edward	50	0.7%
Huron County	11	0.2%
Chatham-Kent	25	0.3%
Kingston, Frontenac	73	1.0%
Lambton	28	0.4%
Leeds, Grenville & Lanark	28	0.4%
Middlesex-London	234	3.2%
Muskoka-Parry Sound	16	0.2%
Niagara Region	136	1.9%
North Bay & District	31	0.4%
Northwestern	9	0.1%
Ottawa	620	8.5%
Oxford County	22	0.3%
Peel Region	275	3.8%
Perth District	18	0.2%
Peterborough	35	0.5%
Porcupine	11	0.2%
Renfrew County & District	17	0.2%
Simcoe	81	1.1%
Sudbury and District	66	0.9%
Thunder Bay District	37	0.5%
Timiskaming	9	0.1%
Toronto City - total	4438	60.7%
<i>North</i>	271	3.7%
<i>South</i>	3474	47.5%
<i>East</i>	390	5.3%
<i>West</i>	303	4.1%
Waterloo Region	86	1.2%
Wellington-Dufferin-Guelph	54	0.7%
Windsor-Essex County	202	2.8%
York Region	132	1.8%
Totals	7,306	100.0%

Ministry of Health and Long-Term Care
Public Health Branch
Cumulative cases diagnosed to December 31, 2002

**Reportable Disease Summary for First Nations and Inuit Health Branch
Ontario Region, October 1 - December 31, 2002**

DISEASE	U. 4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Campylobacteriosis			1																		1
Chickenpox (Varicella)	8	16	3	17			1														45
Clostridium Difficile Infections							5	5	1	7			8	7		3					104
Giardiasis											1								1		2
Hemorrhoids																					11
Group A Streptococcal	1								1												2
Hypertension																					1
Salmonellosis																1					1
Tuberculosis																					1

On-Reserve Population for MSB - Ontario Region = 68,847

*Just walking to
the grocery Store...*



*Even a little
regular physical
activity makes a
healthy difference!*

