

2022 CHILDHOOD COVID-19 IMMUNIZATION COVERAGE SURVEY (CCICS)



2022 Childhood COVID-19 Immunization Coverage Survey (CCICS)

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Table 1. Respondent (parents) profile, overall, by province/territory, by child's sex and age group, Canada, 2022

	Overall	Parents of males	Parents of females	Parents of 0-4 years	Parents of 5-11 years	Parents of 12-17 years
Canada	10,536	5,470	5,066	2,734	3,779	4,023
Newfoundland and Labrador	400	217	183	95	140	165
Prince Edward Island	400	192	208	113	134	153
Nova Scotia	418	215	203	112	160	146
New Brunswick	396	197	199	108	146	142
Quebec	2,000	1,031	969	584	695	721
Ontario	3,109	1,630	1,479	775	1,138	1,196
Manitoba	409	199	210	110	142	157
Saskatchewan	412	230	182	114	149	149
Alberta	1,275	665	610	294	458	523
British Columbia	1,374	717	657	332	495	547
Yukon	141	76	65	37	51	53
Northwest Territories	137	68	69	37	47	53
Nunavut	65	33	32	23	24	18

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 2a. Percentage of children younger than 18 years, vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022¹

	Overall	Males	Females	0-4 years	5-11 years	12-17 years
Pop'n estimate ('000)²	5,290	2,700	2,590	N/A	2,853	2,437
At least one dose of a COVID-19 vaccine (%)	81.3 [81.1-81.5]	80.8 [80.5-81.1]	81.8 [81.5-82.1]	N/A	74.0 [73.8-74.1]	89.8 [89.7-89.9]
Not vaccinated against COVID-19 (%)	18.7 [18.5-18.9]	19.2 [18.9-19.5]	18.2 [17.9-18.5]	N/A	26.0 [25.9-26.2]	10.2 [10.1-10.3]

Table 2b. Percentage of children younger than 18 years, vaccinated with a COVID-19 vaccine by number of doses received, by child's sex and age group, Canada, 2022¹

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
One dose	8.0 [7.8-8.1]	7.8 [7.6-8.0]	8.2 [7.9-8.4]	N/A	14.0 [13.9-14.1]	2.2 [2.1-2.2]
Two doses	75.4 [75.1-75.7]	76.8 [76.5-77.2]	73.9 [73.5-74.4]	N/A	85.2 [85.2-85.3]	65.9 [65.6-66.2]
Three or more doses	16.6 [16.2-17.0]	15.4 [14.9-15.9]	17.9 [17.3-18.5]	N/A	0.8 [0.8-0.8]	31.9 [31.6-32.2]

¹ Overall includes 5 to 17 year olds; children 4 years and below were not eligible for vaccination at the time of data collection.

² Weighted sample of those that responded to the question.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

N/A: Not applicable.

Estimates may not sum to 100% due to rounding.

Table 3. Percentage of children younger than 18 years, vaccinated with at least one dose of a COVID-19 vaccine, by province/territory, child's sex and age group, Canada, 2022¹

	Pop'n estimate ('000) ²	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Canada	5,290	81.3 [81.1-81.5]	80.8 [80.5-81.1]	81.8 [81.5-82.1]	N/A	74.0 [73.8-74.1]	89.8 [89.7-89.9]
Newfoundland and Labrador	65	93.1 [92.7-93.5]	90.9 [90.2-91.5]	95.5 [↑] [95.4-95.7]	N/A	90.6 [90.0-91.3]	95.7 [95.6-95.8]
Prince Edward Island	23	88.1 [87.3-88.9]	87.9 [86.5-89.3]	88.3 [87.5-89.1]	N/A	81.8 [81.6-82.1]	94.8 [94.6-95.0]
Nova Scotia	123	90.0 [89.4-90.6]	89.9 [89.2-90.1]	90.1 [89.0-91.1]	N/A	84.7 [84.6-84.8]	96.0 [95.8-96.1]
New Brunswick	102	82.8 [81.7-83.9]	84.1 [82.4-85.7]	81.5 [↑] [79.8-83.1]	N/A	73.2 [73.0-73.5]	93.6 [93.4-93.8]
Quebec	1,168	84.3 [83.9-84.7]	83.8 [83.3-84.4]	84.8 [84.2-85.4]	N/A	77.3 [77.3-77.3]	92.9 [92.8-93.0]
Ontario	2,013	80.6 [80.3-81.0]	79.2 [78.8-79.6]	82.1 [81.6-82.6]	N/A	72.9 [72.8-73.0]	89.4 [89.3-89.5]
Manitoba	225	85.6 [85.0-86.3]	86.8 [86.7-87.0]	84.4 [83.2-85.6]	N/A	81.7 [81.1-82.4]	90.5 [↓] [90.1-90.9]
Saskatchewan	196	81.3 [80.7-81.9]	83.0 [82.7-83.3]	79.5 [↑] [78.4-80.6]	N/A	77.7 [77.1-78.3]	85.8 [85.6-85.9]
Alberta	710	74.7 [74.1-75.3]	76.7 [75.9-77.4]	72.7 [71.7-73.7]	N/A	66.2 [66.0-66.5]	85.1 [85.0-85.2]
British Columbia	641	79.7 [79.2-80.3]	78.2 [77.4-79.0]	81.4 [80.7-82.1]	N/A	71.6 [71.4-71.8]	89.0 [89.0-89.1]
Yukon	6	81.0 [77.9-83.8]	80.1 [76.0-83.6]	82.1 [78.4-85.3]	N/A	69.9 [69.3-70.4]	96.0 [95.7-96.3]
Northwest Territories	8	87.1 [85.0-88.9]	79.0 [76.8-81.0]	95.0 [93.6-96.1]	N/A	81.6 [78.8-84.1]	93.8 [91.9-95.3]

Nunavut	10	93.0 [90.6-94.8]	94.3 [94.4-96.2]	91.6 [88.3-94.0]	N/A	87.9 [87.0-88.7]	#
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¹ Overall includes 5 to 17 year olds; children 4 years and below were not eligible for vaccination at the time of data collection.

² Weighted sample of those that responded to the question.

[95% confidence intervals in brackets]

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* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

N/A: Not applicable.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 4a. Parental intention to vaccinate their children against COVID-19, among children younger than 18 years who have not been vaccinated, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Definitely will	29.6 [29.2-30.1]	30.4 [29.7-31.0]	28.8 [28.2-29.4]	43.0 [42.8-43.3]	4.8 [4.7-4.9]	#
Probably will	13.3 [13.1-13.4]	14.1 [13.9-14.2]	12.4 [12.2-12.7]	17.1 [17.0-17.2]	6.6 [6.5-6.7]	#
Probably won't	14.3 [14.2-14.5]	13.4 [13.2-13.6]	15.3 [15.0-15.5]	10.9 [10.7-11.0]	23.7 [23.5-23.9]	12.6 [12.5-12.7]
Definitely won't	35.7 [35.2-36.1]	35.0 [34.4-35.6]	36.3 [35.7-36.9]	22.1 [22.0-22.2]	56.1 [55.8-56.3]	78.5↑ [78.2-78.8]
Don't know	7.2 [7.1-7.2]	7.1 [7.1-7.2]	7.2 [7.1-7.3]	6.9 [6.8-7.0]	8.8 [8.7-8.9]	4.0 [3.9-4.1]

Table 4b. Parental intention to vaccinate their children against COVID-19, among children younger than 18 years who have not been vaccinated, by province/territory, Canada, 2022¹

	Definitely will (%)	Probably will (%)	Probably won't (%)	Definitely won't (%)	Don't know (%)
Canada	29.6 [29.2-30.1]	13.3 [13.1-13.4]	14.3 [14.2-14.5]	35.7 [35.2-36.1]	7.2 [7.1-7.2]
Newfoundland and Labrador	45.4 [43.8-47.1]	20.4 [19.1-21.8]	8.5↓ [7.7-9.4]	14.9 [14.0-15.9]	10.7 [9.7-11.7]
Prince Edward Island	39.0 [36.4-41.6]	20.2 [19.2-21.2]	15.0 [13.9-16.0]	21.4 [19.4-23.5]	4.4 [3.6-5.2]
Nova Scotia	40.3 [38.5-42.1]	12.8 [11.9-13.6]	11.2 [10.0-12.4]	28.4 [27.0-29.8]	7.3 [6.7-7.9]

New Brunswick	32.3 [30.2-34.5]	15.7 [14.9-16.5]	10.3 [9.3-11.4]	34.5↓ [31.5-37.4]	7.2 [6.9-7.5]
Quebec	24.3 [23.7-24.9]	17.3 [17.0-17.6]	16.6 [16.5-16.8]	33.7 [32.9-34.6]	8.0 [7.9-8.1]
Ontario	31.4 [30.6-32.2]	12.6 [12.4-12.7]	13.8 [13.5-14.1]	35.3 [34.6-36.0]	7.0 [6.9-7.0]
Manitoba	30.2 [28.5-31.9]	13.8 [12.9-14.7]	8.3 [7.8-8.9]	38.6 [36.0-41.1]	9.1 [8.7-9.4]
Saskatchewan	35.2 [32.8-37.6]	8.3 [7.9-8.8]	12.1 [11.7-12.6]	39.9 [37.8-42.1]	4.4 [4.1-4.8]
Alberta	27.4 [26.0-28.8]	11.7 [11.2-12.1]	12.9 [12.4-13.4]	41.0 [39.5-42.4]	7.1 [7.0-7.2]
British Columbia	30.3 [29.2-31.5]	10.6 [10.3-10.9]	17.6 [17.2-18.0]	35.1 [34.0-36.2]	6.4 [6.2-6.5]
Yukon	30.2 [26.7-34.0]	16.8 [14.8-19.1]	22.5↑ [21.0-24.1]	#	#
Northwest Territories	30.7 [27.4-34.1]	27.1 [25.7-28.5]	19.1 [17.4-20.9]	#	#
Nunavut	#	#	#	#	#

¹ These tables includes both children who were not eligible for a COVID-19 vaccination (children <5 years) at the time of data collection and those who were eligible for vaccination but had not been vaccinated.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Estimates may not sum to 100% due to rounding.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 5. Parental reasons for getting their children vaccinated with a COVID-19 vaccine, by child's sex and age group, Canada, 2022^{1,2,3}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
To protect themselves and/or household members against COVID-19 infection	75.8 [75.6-75.9]	74.7 [74.5-74.9]	76.9 [76.7-77.0]	N/A	79.8 [79.7-79.9]	71.9 [71.7-72.1]
Based on public health recommendations	59.3 [59.2-59.4]	58.6 [58.4-58.7]	60.1 [59.9-60.3]	N/A	62.5↓ [62.3-62.6]	56.3 [56.1-56.4]
To prevent the spread of COVID-19 in my community	59.7 [59.6-59.8]	58.7 [58.5-58.9]	60.8 [60.6-61.0]	N/A	63.6 [63.5-63.7]	56.0 [55.9-56.1]
To help restore a more normal life	59.4 [59.3-59.5]	58.6 [58.5-58.7]	60.1 [60.0-60.3]	N/A	59.8 [59.6-59.9]	59.0 [58.9-59.1]
The COVID-19 vaccine was recommended by a health care professional	22.0 [21.8-22.1]	21.7 [21.4-21.9]	22.3 [22.1-22.5]	N/A	23.1 [22.9-23.4]	20.8 [20.7-210.0]
Other	1.3 [1.3-1.4]	1.4 [1.4-1.5]	1.3 [1.2-1.3]	N/A	1.2 [1.1-1.2]	1.5↑ [1.5-1.5]

¹ Multiple response options could be selected by respondents.

² Overall includes 5 to 17 year olds; children 4 years and below were not eligible for vaccination at the time of data collection.

³ Among those who received at least one COVID-19 vaccine dose.

[95% confidence intervals in brackets]

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COVID-19 vaccines refer to those that have been approved for use in Canada.

N/A: Not applicable.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 6. Parental reasons for not getting their children vaccinated with a COVID-19 vaccine, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
My child has an appointment in the future	1.4 [1.4-1.5]	1.3 [1.3-1.4]	1.6 [1.5-1.6]	N/A	1.8 [1.8-1.9]	#
My child has a medical exemption	0.8 [0.8-0.8]	1.0 [0.9-1.0]	0.6 [0.6-0.7]	N/A	0.6 [0.6-0.7]	1.4 [1.3-1.4]
I was hesitant to get my child vaccinated	19.0 [18.8-19.2]	20.3 [20.1-20.5]	17.6 [17.3-17.8]	N/A	21.7 [21.5-21.9]	10.7 [10.5-10.9]
My child was hesitant to get vaccinated	2.9 [2.9-3.0]	3.3 [3.2-3.3]	2.6 [2.6-2.7]	N/A	2.8 [2.7-2.8]	3.5↓ [3.4-3.6]
I decided not to vaccinate my child	60.0 [59.8-60.2]	58.0 [57.7-58.2]	62.3 [61.9-62.6]	N/A	62.0 [61.7-62.2]	54.1 [53.8-54.4]
My child decided they did not want to be vaccinated	12.5↓ [12.2-12.7]	12.7 [12.3-13.2]	12.2 [11.9-12.4]	N/A	6.9 [6.8-7.1]	29.3 [29.0-29.7]
Faced an obstacle beyond my/my child's control	3.3 [3.3-3.4]	3.5↓ [3.4-3.5]	3.2 [3.1-3.3]	N/A	4.1 [4.0-4.2]	#

¹ Overall includes 5 to 17 year olds; children 4 years and below were not eligible for vaccination at the time of data collection.

[95% confidence intervals in brackets]

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COVID-19 vaccines refer to those that have been approved for use in Canada.

N/A: Not applicable.

Estimates may not sum to 100% due to rounding.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 7. Obstacles that prevented parents from vaccinating their children against COVID-19, among unvaccinated children, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
No obstacles	88.2 [88.1-88.3]	88.1 [88.0-88.2]	88.2 [88.1-88.4]	N/A	86.9 [86.8-87.0]	91.8 [91.6-91.9]
Yes, encountered obstacles	11.8 [11.7-11.9]	11.9 [11.8-12.0]	11.8 [11.6-11.9]	N/A	13.1 [13.0-13.2]	8.2 [8.1-8.4]
Various obstacles among those that encountered obstacles²						
Difficulty to book time off work/ school for a vaccine appointment	16.4 [16.0-16.8]	17.8 [17.2-18.6]	14.8 [14.5-15.2]	N/A	15.5↑ [15.1-16.0]	20.4 [19.7-21.2]
Live in a remote area (limited transportation)	#	#	#	N/A	#	#
No reliable internet access	#	#	#	N/A	#	#
Language barrier	#	#	#	N/A	#	#
Concerns about racism or discrimination	#	#	#	N/A	#	#
My child fears needles	30.0 [29.7-30.3]	31.2 [30.7-31.6]	28.7 [28.2-29.2]	N/A	31.9 [31.6-32.3]	20.8 [20.0-21.7]
At least one parent opposed it	18.1 [17.8-18.4]	18.0 [17.5-18.5]	18.2 [17.7-18.7]	N/A	19.8 [19.4-20.2]	#
Other	42.2 [41.8-42.7]	41.7 [41.0-42.4]	42.8 [42.3-43.4]	N/A	39.5↑ [39.1-40.0]	54.8 [53.6-55.9]

¹ Overall includes 5 to 17 year olds; children 4 years and below were not eligible for vaccination at the time of data collection.

² Multiple response options could be selected by respondents.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

N/A: Not applicable.

Table 8a. Percentage of parents who were hesitant to vaccinate their children younger than 18 years against COVID-19, by province/territory, child's sex and age group, Canada, 2022^{1,2}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Canada	42.9 [42.8-43.1]	43.9 [43.7-44.1]	42.0 [41.7-42.2]	48.3 [48.1-48.4]	45.2 [45.1-45.4]	36.3 [36.1-36.4]
Newfoundland and Labrador	31.6 [31.0-32.2]	31.4 [30.6-32.3]	31.7 [31.0-32.5]	39.2 [39.0-39.5]	32.0 [31.5-32.6]	26.5↑ [26.0-27.0]
Prince Edward Island	31.0 [30.3-31.8]	30.5↑ [29.4-31.8]	31.6 [30.6-32.5]	34.2 [33.4-35.1]	37.3 [37.0-37.7]	22.3 [22.2-22.5]
Nova Scotia	42.0 [41.2-42.7]	44.7 [44.2-45.2]	39.1 [37.8-40.5]	46.8 [45.3-48.3]	43.1 [42.3-43.9]	37.3 [36.0-38.6]
New Brunswick	41.9 [41.3-42.5]	39.6 [38.7-40.6]	44.3 [43.9-44.6]	47.2 [46.8-47.5]	44.1 [43.6-44.4]	36.0 [35.2-36.9]
Quebec	38.1 [37.8-38.4]	40.0 [39.6-40.4]	36.1 [35.8-36.5]	45.4 [45.2-45.5]	39.8 [39.6-40.0]	30.3 [30.2-30.4]
Ontario	44.6 [44.4-44.7]	44.9 [44.7-45.1]	44.2 [43.9-44.5]	49.3 [49.3-49.4]	48.1 [48.1-48.1]	37.1 [37.1-37.2]
Manitoba	37.8 [37.1-38.5]	42.0 [40.9-43.2]	33.4 [33.0-33.8]	46.6 [45.2-47.9]	37.2 [36.3-38.1]	31.6 [31.5-31.7]
Saskatchewan	44.3 [43.8-44.8]	42.8 [42.1-43.7]	45.8 [45.4-46.3]	48.7 [48.0-49.4]	44.8 [44.1-45.5]	40.1 [39.8-40.5]
Alberta	48.1 [47.9-48.3]	46.7 [46.5-46.9]	49.5↑ [49.2-49.8]	51.4 [51.2-51.7]	49.2 [49.1-49.3]	44.1 [44.0-44.2]
British Columbia	44.7 [44.4-45.1]	48.4 [48.0-48.9]	40.9 [40.6-41.3]	49.2 [49.0-49.5]	47.9 [47.4-48.4]	38.0 [37.7-38.2]
Yukon	43.1 [40.6-45.6]	44.6 [40.6-48.7]	41.5↓ [39.9-43.0]	45.1 [43.2-46.9]	54.4 [52.7-56.1]	26.4 [24.0-28.9]

Northwest Territories	33.6 [31.4-35.9]	43.4 [40.7-46.1]	23.6 [22.5-24.7]	30.4 [26.4-34.7]	41.4 [37.5-45.5]	26.6 [25.7-27.3]
Nunavut	14.3 [11.8-17.1]	15.3* [10.8-21.1]	#	27.9 [23.4-32.9]	#	#

Table 8b. Percentage of parents who decided not to vaccinate their children against COVID-19, by province/territory, child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Canada	60.0 [59.8-60.2]	58.0 [57.7-58.2]	62.3 [61.9-62.6]	N/A	62.0 [61.7-62.2]	54.1 [53.8-54.4]
Newfoundland and Labrador	#	#	#	N/A	#	#
Prince Edward Island	#	#	#	N/A	#	#
Nova Scotia	#	#	#	N/A	#	#
New Brunswick	68.9 [67.6-70.1]	#	#	N/A	74.7 [73.9-75.5]	#
Quebec	59.5↓ [59.0-60.0]	53.6 [53.2-54.0]	65.6 [65.2-66.0]	N/A	63.1 [62.6-63.5]	46.1 [45.8-46.3]
Ontario	56.9 [56.7-57.1]	54.7 [54.4-55.0]	59.5↑ [59.4-59.6]	N/A	58.6 [58.6-58.6]	51.8 [51.4-52.3]
Manitoba	62.3 [61.2-63.4]	#	#	N/A	#	#
Saskatchewan	64.1 [63.4-64.8]	#	#	N/A	#	#
Alberta	68.5↑ [68.2-68.8]	65.4 [65.4-65.4]	71.4 [71.0-71.7]	N/A	69.8 [69.4-70.2]	64.7 [64.7-64.8]

British Columbia	57.7 [57.2-58.2]	61.8 [61.4-62.2]	52.6 [52.2-52.9]	N/A	58.4 [57.7-59.1]	55.6 [55.3-56.0]
Yukon	#	#	#	N/A	#	#
Northwest Territories	#	#	#	N/A	#	#
Nunavut	#	#	#	N/A	#	#

¹ Among all parents, regardless of child's vaccination status.

² Vaccine hesitancy refers to a delay in acceptance or refusal of vaccines despite availability.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 9a. Reasons why parents were hesitant to vaccinate their children against COVID-19, by child's sex and age group, Canada, 2022^{1,2,3}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
My child is not at risk of getting COVID-19 or at risk of severe infection	32.3 [32.1-32.4]	31.5↓ [31.2-31.7]	33.2 [32.9-33.4]	40.7 [40.6-40.8]	30.4 [30.2-30.5]	26.7 [26.5-26.9]
I wanted to first discuss COVID-19 vaccines with my child's health care practitioner	8.6 [8.5-8.7]	8.7 [8.6-8.9]	8.4 [8.3-8.5]	13.1 [13.0-13.1]	7.0 [6.9-7.0]	6.4 [6.4-6.5]
Concerns that not enough research on the vaccine has been done in children	65.2 [65.1-65.3]	64.1 [64.0-64.3]	66.4 [66.3-66.6]	68.2 [68.0-68.4]	64.8 [64.7-65.0]	62.8 [62.6-63.1]
Concerns about the effectiveness of COVID-19 vaccines	38.5↑ [38.4-38.6]	37.8 [37.6-37.9]	39.4 [39.2-39.5]	42.1 [41.9-42.4]	36.2 [36.1-36.4]	38.3 [38.2-38.4]
Concerns about the safety of COVID-19 vaccines and/or side effects	61.8 [61.7-62.0]	59.7 [59.6-60.0]	64.1 [63.9-64.3]	59.3 [59.0-59.6]	61.4 [61.2-61.6]	65.0 [64.8-65.3]
My child had a bad experience with previous vaccinations	3.6 [3.6-3.7]	3.5↑ [3.5-3.5]	3.7 [3.7-3.8]	2.4 [2.3-2.5]	4.0 [3.9-4.1]	4.2 [4.2-4.3]
Do/did not know where to get reliable information	5.0 [4.9-5.1]	4.4 [4.3-4.5]	5.7 [5.6-5.7]	4.0 [3.9-4.1]	4.6 [4.5-4.6]	6.6 [6.5-6.7]
Religious or philosophical reasons	4.3 [4.3-4.4]	4.4 [4.3-4.5]	4.3 [4.2-4.4]	6.1 [5.9-6.2]	2.8 [2.7-2.8]	4.9 [4.9-5.0]
My child had a bad experience with healthcare providers	0.9 [0.8-0.9]	0.7 [0.7-0.7]	1.1 [1.0-1.1]	0.7 [0.7-0.8]	1.1 [1.1-1.2]	0.6 [0.6-0.6]
Concerns about racism or discrimination	0.9 [0.8-0.9]	0.8 [0.8-0.9]	0.9 [0.8-0.9]	1.2 [1.2-1.3]	0.5↑ [0.5-0.5]	1.0 [1.0-1.0]
Other	4.6 [4.6-4.7]	4.9 [4.8-5.0]	4.4 [4.3-4.5]	4.1 [4.0-4.2]	4.3 [4.2-4.4]	5.7 [5.6-5.7]

Table 9b. Reasons why parents decided not to vaccinate children against COVID-19, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
My child is not at risk of getting COVID-19 or at risk of severe infection	49.3 [49.0-49.6]	47.1 [46.7-47.4]	51.6 [51.1-52.0]	N/A	50.5 [↑] [50.2-50.8]	45.0 [44.5-45.6]
I wanted to first discuss COVID-19 vaccines with my child's health care practitioner	1.0 [0.9-1.0]	1.1 [1.1-1.1]	0.8 [0.7-1.0]	N/A	1.1 [1.1-1.2]	#
Concerns that not enough research on the vaccine has been done in children	54.7 [54.5-54.9]	53.7 [53.4-54.0]	55.8 [55.5-56.0]	N/A	56.1 [55.9-56.3]	49.9 [49.4-50.4]
Concerns about the effectiveness of COVID-19 vaccines	49.7 [49.4-50.0]	49.8 [49.4-50.2]	49.7 [49.2-50.1]	N/A	49.5 [↓] [49.2-49.8]	50.6 [50.0-51.1]
Concerns about the safety of COVID-19 vaccines and/or side effects	65.9 [65.7-66.1]	66.5 [↑] [66.3-66.8]	65.2 [64.9-65.6]	N/A	63.6 [63.4-63.9]	73.8 [73.4-74.2]
My child had a bad experience with previous vaccinations	4.7 [4.6-4.8]	4.6 [4.5-4.7]	4.7 [4.5-4.9]	N/A	4.9 [4.8-5.1]	3.6 [3.5-3.8]
Do/did not know where to get reliable information	2.2 [2.1-2.3]	2.5 [↓] [2.3-2.6]	2.0 [1.9-2.0]	N/A	2.2 [2.0-2.3]	2.4 [2.3-2.6]
Religious or philosophical reasons	9.2 [9.0-9.3]	8.6 [8.5-8.8]	9.7 [9.5-9.9]	N/A	8.4 [8.3-8.6]	11.7 [11.4-12.0]
My child had a bad experience with healthcare providers	1.2 [1.1-1.2]	1.1 [1.0-1.1]	1.3 [1.2-1.4]	N/A	1.1 [1.1-1.2]	#
Concerns about racism or discrimination	#	#	#	N/A	#	#
Other	6.1 [6.0-6.2]	7.5 [↑] [7.4-7.7]	4.7 [4.6-4.8]	N/A	5.8 [5.7-5.9]	7.2 [7.0-7.4]

¹ Multiple response options could be selected by respondents.

² Among all parents, regardless of child's vaccination status.

³ Vaccine hesitancy refers to a delay in acceptance or refusal of vaccines despite availability.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

N/A: Not applicable.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 10. Frequency of children receiving a flu vaccination prior to the COVID-19 pandemic, by child's sex and age group, Canada, 2022¹

	Overall (%)	Males (%)	Females (%)	6 months - 4 years (%)	5-11 years (%)	12-17 years (%)
Every flu season	24.3 [24.0-24.5]	23.7 [23.3-24.0]	24.9 [24.6-25.2]	36.4 [35.9-36.9]	24.9 [24.6-25.2]	17.5 [↑] [17.4-17.7]
Most flu seasons	14.4 [14.3-14.5]	13.8 [13.7-13.9]	15.0 [14.8-15.1]	11.0 [10.9-11.1]	15.3 [15.2-15.5]	14.9 [14.8-15.1]
Some flu seasons (including once only)	18.6 [18.5-18.7]	19.0 [18.8-19.1]	18.2 [18.0-18.3]	12.6 [12.4-12.7]	18.1 [18.1-18.2]	22.1 [22.0-22.2]
Never	42.8 [42.5-43.0]	43.6 [43.2-43.9]	42.0 [41.6-42.3]	40.0 [39.5-40.6]	41.6 [41.3-42.0]	45.5 [↓] [45.1-45.9]

¹ Among those eligible for a flu vaccine. This means that those within the 6 months to 4 years age group only include children 2.5 years and above.

[95% confidence intervals in brackets]

The symbols [↑] and [↓] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Estimates may not sum to 100% due to rounding.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 11. Flu vaccination coverage during the 2021-2022 flu season among children, by child's sex and age group, Canada, 2022¹

	Pop'n estimate ('000)	Overall (%)	Males (%)	Females (%)	6 months - 4 years (%)	5-11 years (%)	12-17 years (%)
Yes	2,112	30.0 [29.8-30.3]	29.6 [29.2-30.0]	30.5↓ [30.2-30.8]	40.0 [39.5-40.5]	29.1 [28.7-29.4]	23.9 [23.6-24.2]
No	4,921	70.0 [69.7-70.2]	70.4 [70.0-70.8]	69.5↑ [69.2-69.8]	60.0 [59.5-60.5]	70.9 [70.6-71.3]	76.1 [75.8-76.4]

¹ Among those eligible for a flu vaccine.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 12. Flu vaccination coverage during the 2021-2022 flu season among children, by province/territory, child's sex and age group, Canada, 2022¹

	Pop'n estimate ('000) ²	Overall (%)	Males (%)	Females (%)	6 months - 4 years (%)	5-11 years (%)	12-17 years (%)
Canada	2,112	30.0 [29.8-30.3]	29.6 [29.2-30.0]	30.5↓ [30.2-30.8]	40.0 [39.5-40.5]	29.1 [28.7-29.4]	23.9 [23.6-24.2]
Newfoundland and Labrador	36	43.8 [42.9-44.7]	47.5↑ [46.5-48.6]	39.7 [38.3-41.1]	52.8 [51.0-54.6]	47.7 [47.5-47.9]	34.2 [33.3-35.2]
Prince Edward Island	12	42.3 [41.6-43.0]	42.9 [42.0-43.8]	41.7 [40.7-42.8]	54.8 [54.6-54.9]	42.1 [41.9-42.3]	35.1 [35.0-35.2]
Nova Scotia	63	38.6 [37.8-39.4]	36.0 [35.3-36.8]	41.3 [40.0-42.5]	50.8 [49.9-51.8]	36.4 [35.8-36.9]	32.6 [32.6-32.7]
New Brunswick	47	36.1 [35.6-36.6]	36.7 [35.9-37.5]	35.4 [35.0-35.9]	44.0 [43.4-44.6]	#	34.0 [34.0-34.1]
Quebec	201	12.9 [12.7-13.0]	12.2 [12.0-12.5]	13.6 [13.4-13.7]	17.7 [17.6-17.7]	12.5↑ [12.4-12.6]	9.7 [9.6-9.8]
Ontario	831	31.1 [30.9-31.4]	30.7 [30.3-31.0]	31.6 [31.3-31.9]	42.7 [42.7-42.7]	28.8 [28.7-28.8]	25.7 [25.7-25.7]
Manitoba	139	46.1 [45.1-47.0]	41.0 [39.6-42.4]	51.2 [50.2-52.2]	44.8 [42.6-47.1]	53.8 [53.4-54.1]	37.2 [36.7-37.8]
Saskatchewan	116	43.4 [42.4-44.4]	47.2 [45.7-48.7]	39.5↓ [38.2-40.7]	55.4 [54.6-56.2]	46.6 [45.9-47.4]	29.8 [29.3-30.2]
Alberta	364	38.5↑ [37.9-39.1]	39.0 [38.1-40.0]	38.0 [37.4-38.6]	54.2 [53.8-54.7]	35.6 [35.6-35.7]	29.9 [29.7-30.1]
British Columbia	287	33.7 [33.3-34.1]	32.2 [31.6-32.8]	35.2 [34.7-35.8]	45.0 [44.9-45.0]	34.0 [33.8-34.2]	25.3 [25.2-25.4]
Yukon	3	44.8 [43.7-45.9]	42.5↓ [41.7-43.3]	47.2 [45.2-49.1]	51.1 [49.5-52.7]	44.5↑ [43.0-46.0]	40.4 [39.4-41.4]
Northwest Territories	5	50.4 [49.3-51.4]	51.7 [49.9-53.5]	48.9 [48.1-49.8]	42.4 [41.9-42.8]	56.2 [55.2-57.3]	49.1 [48.9-49.4]

Nunavut	7	49.9 [44.3-55.5]	#	33.8 [27.5-40.1]	#	#	#
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¹ Among those eligible for a flu vaccine.

² Weighted sample of those who got a flu shot during the 2021-2022 flu season.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 13. Parental reasons for getting their children vaccinated against the flu during the 2021-2022 flu season, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 6 months - 4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
To protect themselves and/or household members from the flu	84.5 [↑] [84.4-84.6]	85.6 [85.5-85.7]	83.4 [83.2-83.6]	84.7 [84.6-84.9]	86.8 [86.6-86.9]	81.1 [80.9-81.2]
Based on public health recommendations	46.1 [46.0-46.3]	46.1 [45.9-46.4]	46.1 [45.9-46.4]	45.6 [45.3-45.9]	47.4 [47.1-47.7]	45.0 [44.8-45.2]
To prevent the spread of the flu in my community	49.2 [49.0-49.3]	49.1 [48.9-49.2]	49.3 [49.1-49.5]	48.3 [48.0-48.5]	51.3 [51.0-51.5]	47.3 [47.1-47.6]
The flu vaccine was recommended by a health care professional	27.7 [27.5-27.8]	28.1 [27.9-28.3]	27.3 [27.0-27.6]	29.7 [29.3-30.0]	27.1 [26.8-27.4]	26.1 [25.9-26.2]
The flu vaccine is available and free	40.5 [↓] [40.3-40.6]	40.2 [40.0-40.4]	40.8 [40.6-41.0]	38.7 [38.4-38.9]	41.6 [41.4-41.9]	41.1 [40.8-41.4]
Increased concerns about flu because of the COVID-19 pandemic	27.9 [27.8-28.0]	27.6 [27.4-27.8]	28.2 [28.0-28.4]	25.9 [25.7-26.2]	29.8 [29.6-30.0]	27.6 [27.4-27.8]
My child receives it every year	48.2 [48.0-48.4]	46.7 [46.4-46.9]	49.8 [49.5-50.1]	52.2 [51.9-52.5]	50.1 [49.8-50.4]	40.8 [40.6-41.0]
Other	1.6 [1.6-1.7]	1.3 [1.3-1.4]	2.0 [1.9-2.0]	1.7 [1.6-1.7]	1.6 [1.6-1.7]	1.6 [1.6-1.7]

¹ Multiple response options could be selected by respondents.

[95% confidence intervals in brackets]

The symbols [↑] and [↓] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 14. Obstacles that prevented parents from vaccinating their children against the flu during the 2021-2022 flu season among unvaccinated children, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 6 months - 4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
No obstacles	80.9 [80.8-81.0]	81.3 [81.1-81.4]	80.5↑ [80.3-80.7]	78.3 [78.0-78.5]	80.6 [80.4-80.8]	82.7 [82.6-82.9]
Yes, encountered obstacles	19.1 [19.0-19.2]	18.7 [18.6-18.9]	19.5↓ [19.3-19.7]	21.7 [21.5-22.0]	19.4 [19.2-19.6]	17.3 [17.1-17.4]
Various obstacles among those that encountered obstacles¹						
Difficulty to book time off work/ school for a vaccine appointment	34.1 [33.9-34.2]	33.5↑ [33.3-33.7]	34.6 [34.3-34.9]	37.1 [36.9-37.4]	31.8 [31.5-32.1]	34.6 [34.3-34.8]
Living in a remote area (limited transportation)	2.0 [1.9-2.0]	1.8 [1.7-1.9]	2.2 [2.1-2.2]	2.6 [2.5-2.8]	2.0 [1.9-2.0]	1.5 [1.4-1.6]
No reliable internet access	#	#	#	#	#	#
Cost of the vaccine	2.7 [2.6-2.8]	3.0 [2.8-3.1]	2.4 [2.2-2.5]	1.9 [1.8-2.1]	2.4 [2.2-2.5]	3.6 [3.4-3.8]
Language barrier	0.5 [0.4-0.5]	0.6 [0.5-0.6]	#	#	#	0.9 [0.8-1.0]
Concerns about racism or discrimination	0.9 [0.9-0.9]	0.9 [0.9-1.0]	0.9 [0.9-0.9]	#	1.0 [1.0-1.1]	1.1 [1.1-1.2]
My child fears needles	24.3 [24.1-24.6]	20.0 [19.6-20.2]	28.8 [28.5-29.2]	12.4 [12.2-12.6]	30.6 [30.3-31.0]	25.3 [24.9-25.7]
Other	44.1 [43.9-44.3]	48.0 [47.8-48.2]	40.2 [39.9-40.5]	53.4 [53.1-53.6]	41.4 [41.2-41.7]	40.7 [40.3-41.0]

¹ Multiple response options could be selected by respondents.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 15. Percentage of parents who were hesitant to vaccinate their children against the flu during the 2021-2022 flu season, by province/territory, by child's sex and age group, Canada, 2022^{1, 2}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 6 months - 4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Canada	23.7 [23.6-23.7]	24.1 [24.0-24.2]	23.2 [23.1-23.3]	22.2 [22.0-22.3]	23.9 [23.8-24.0]	24.6 [24.4-24.7]
Newfoundland and Labrador	17.6 [17.3-17.8]	17.0 [16.8-17.2]	18.1 [17.7-18.6]	14.1 [13.9-14.2]	19.7 [19.5-19.9]	17.3 [17.2-17.5]
Prince Edward Island	16.1 [15.7-16.4]	16.0 [15.3-16.7]	16.2 [16.1-16.2]	10.5↓ [9.6-11.3]	17.3 [17.3-17.4]	18.1 [17.7-18.4]
Nova Scotia	18.0 [17.8-18.2]	17.8 [17.5-18.0]	18.2 [17.9-18.5]	15.5↑ [15.4-15.6]	19.0 [18.7-19.3]	18.5↓ [18.2-18.7]
New Brunswick	20.3 [20.0-20.6]	21.2 [20.8-21.6]	19.3 [18.8-19.9]	24.3 [23.8-24.7]	16.9 [16.5-17.2]	21.5↓ [21.2-21.7]
Quebec	21.4 [21.3-21.5]	23.0 [22.9-23.2]	19.7 [19.6-19.8]	19.3 [19.1-19.5]	22.9 [22.7-23.1]	21.2 [21.1-21.3]
Ontario	26.0 [25.9-26.0]	25.3 [25.2-25.4]	26.6 [26.6-26.7]	24.2 [24.0-24.3]	26.1 [26.1-26.2]	27.1 [27.0-27.1]
Manitoba	20.2 [19.6-20.8]	24.0 [23.2-24.8]	16.3 [15.6-17.0]	28.2 [27.2-29.2]	16.8 [15.8-17.8]	18.4 [18.3-18.4]
Saskatchewan	22.5↑ [22.3-22.7]	22.8 [22.7-22.9]	22.2 [21.9-22.5]	21.7 [21.4-21.9]	23.4 [23.2-23.6]	22.1 [21.9-22.3]
Alberta	24.8 [24.6-25.0]	23.6 [23.4-23.8]	26.1 [25.9-26.3]	20.8 [20.6-21.0]	25.0 [24.9-25.0]	27.8 [27.6-28.0]
British Columbia	23.6 [23.4-23.8]	26.6 [26.6-26.7]	20.4 [20.2-20.5]	22.8 [22.3-23.2]	23.2 [22.8-23.6]	24.6 [24.5-24.7]
Yukon	25.7 [24.3-27.1]	23.5↑ [21.2-26.0]	28.1 [27.3-28.9]	25.0 [22.7-27.5]	31.5↓ [30.5-32.4]	18.7 [17.0-20.6]
Northwest Territories	18.9 [17.8-20.0]	17.9 [16.2-19.7]	19.9 [18.9-20.9]	#	19.5↑ [19.4-19.7]	#

Nunavut	8.9* [5.7-13.6]	#	17.9 [14.1-22.5]	#	#	#
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¹ Among all parents, regardless of child's vaccination status.

² Vaccine hesitancy refers to a delay in acceptance or refusal of vaccines despite availability.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 16. Percentage of parents who refused to vaccinate their children against the flu during the 2021-2022 flu season, by province/territory, child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 6 months - 4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Canada	43.6 [43.5-43.7]	44.1 [43.9-44.2]	43.2 [43.0-43.3]	45.6 [45.4-45.8]	45.6 [45.5-45.8]	40.3 [40.2-40.5]
Newfoundland and Labrador	29.1 [28.3-30.0]	34.7 [33.7-35.7]	24.0 [23.1-24.9]	21.8 [20.0-23.9]	36.6 [35.5-37.7]	26.0 [25.8-26.3]
Prince Edward Island	28.8 [28.1-29.4]	29.6 [28.4-30.7]	28.0 [27.7-28.3]	24.1 [23.7-24.5]	34.2 [33.5-35.0]	25.7 [25.3-26.2]
Nova Scotia	33.3 [32.5-34.0]	28.5 [↑] [28.0-29.1]	38.6 [37.4-39.7]	42.6 [40.4-44.8]	30.5 [↓] [29.4-31.5]	31.4 [31.4-31.5]
New Brunswick	41.9 [41.1-42.7]	41.0 [39.9-42.2]	42.8 [41.8-43.8]	52.7 [52.5-52.9]	38.7 [37.5-39.8]	39.2 [38.4-40.0]
Quebec	45.4 [45.1-45.6]	46.2 [45.9-46.6]	44.5 [↓] [44.2-44.8]	42.3 [42.2-42.4]	50.9 [50.9-51.0]	40.9 [40.8-40.9]
Ontario	42.8 [42.7-42.8]	43.3 [43.2-43.3]	42.2 [42.1-42.3]	44.4 [44.4-44.5]	42.7 [42.7-42.8]	41.9 [41.8-41.9]
Manitoba	41.6 [40.5-42.7]	40.7 [39.1-42.4]	42.8 [41.4-44.1]	52.8 [51.3-54.3]	43.0 [41.3-44.6]	33.3 [33.2-33.4]
Saskatchewan	48.9 [48.0-49.8]	44.4 [44.1-44.8]	53.1 [51.7-54.5]	48.8 [48.6-49.0]	54.8 [53.1-56.6]	43.6 [43.5-43.8]
Alberta	47.5 [↓] [47.2-47.7]	46.5 [↑] [46.1-46.9]	48.4 [48.1-48.7]	52.7 [52.2-53.1]	48.4 [48.1-48.7]	43.9 [43.6-44.2]
British Columbia	41.5 [↑] [41.2-41.9]	44.5 [↓] [43.9-45.0]	38.1 [37.9-38.3]	50.9 [50.2-51.5]	42.5 [↓] [42.1-42.8]	35.7 [35.7-35.8]
Yukon	40.8 [38.2-43.3]	38.9 [35.6-42.3]	42.8 [39.5-46.2]	#	#	#
Northwest Territories	33.6 [30.9-36.4]	40.2 [38.2-42.3]	26.7 [22.3-31.5]	#	#	#

Nunavut	#	#	#	#	#	#
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[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 17a. Reasons why parents were hesitant to vaccinate their children against the flu during the 2021-2022 flu season, by child's sex and age group, Canada, 2022^{1,2}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 6 months - 4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
My child is not at risk of getting the flu or at risk of severe infection	42.8 [42.7-42.9]	44.1 [43.9-44.2]	41.4 [41.2-41.5]	44.5↑ [44.2-44.9]	40.5↑ [40.4-40.6]	44.2 [44.0-44.3]
I wanted to first discuss the flu vaccine with my child's health care practitioner	3.9 [3.9-4.0]	3.8 [3.7-3.9]	4.0 [4.0-4.1]	6.9 [6.7-7.0]	2.9 [2.8-3.0]	3.1 [3.1-3.2]
I was concerned about the effectiveness of the flu vaccine	35.0 [34.8-35.2]	34.9 [34.6-35.1]	35.1 [34.9-35.3]	39.5↑ [39.1-39.9]	35.2 [35.0-35.4]	31.7 [31.5-31.9]
I had concerns about the safety of the flu vaccine and/or side effects	29.4 [29.2-29.5]	29.1 [28.8-29.3]	29.7 [29.5-30.0]	33.3 [33.0-33.6]	28.7 [28.4-28.9]	27.6 [27.3-27.8]
My child had a bad experience with previous vaccines	6.2 [6.2-6.3]	6.3 [6.3-6.4]	6.1 [6.0-6.2]	4.8 [4.7-4.9]	6.5↑ [6.4-6.6]	6.8 [6.7-6.9]
I did not know where to get reliable information	2.1 [2.1-2.2]	2.0 [2.0-2.0]	2.3 [2.2-2.4]	2.9 [2.8-3.1]	1.9 [1.8-2.0]	1.8 [1.8-1.9]
Religious or philosophical reasons	4.8 [4.7-4.9]	4.6 [4.5-4.7]	5.0 [4.9-5.2]	8.4 [8.2-8.6]	3.6 [3.6-3.7]	3.8 [3.7-3.8]
My child had a bad experience with healthcare providers	1.1 [1.1-1.2]	0.8 [0.8-0.8]	1.5↓ [1.4-1.5]	1.5↑ [1.4-1.6]	1.1 [1.0-1.1]	0.9 [0.9-0.9]
Concerns about racism or discrimination	0.7 [0.7-0.7]	0.6 [0.6-0.7]	0.7 [0.7-0.8]	#	0.6 [0.5-0.6]	0.6 [0.6-0.7]
Never get flu vaccine/not necessary	4.3 [4.3-4.4]	4.0 [3.9-4.0]	4.7 [4.6-4.7]	4.0 [4.0-4.1]	4.0 [4.0-4.1]	4.8 [4.7-4.8]
Concerns about combining the COVID-19 and flu vaccine/COVID-19 vaccine was enough	2.9 [2.9-3.0]	2.9 [2.8-3.0]	2.9 [2.9-3.0]	#	3.5↓ [3.4-3.6]	4.2 [4.2-4.3]
Other	11.4 [11.3-11.4]	11.1 [11.1-11.2]	11.6 [11.5-11.7]	12.0 [11.8-12.1]	10.7 [10.6-10.8]	11.7 [11.6-11.9]

Table 17b. Reasons why parents refused to vaccinate their children against the flu during the 2021-2022 flu season, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 6 months - 4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
My child is not at risk of getting the flu or at risk of severe infection	49.8 [49.6-49.9]	49.5↓ [49.2-49.7]	50.1 [49.9-50.3]	50.8 [50.6-51.1]	47.3 [47.1-47.5]	52.1 [51.8-52.5]
I wanted to first discuss the flu vaccine with my child's health care practitioner	2.0 [2.0-2.0]	2.0 [2.0-2.1]	2.0 [1.9-2.0]	3.5↓ [3.4-3.6]	1.4 [1.4-1.5]	1.8 [1.7-1.8]
I was concerned about the effectiveness of the flu vaccine	30.4 [30.2-30.6]	30.2 [29.9-30.5]	30.6 [30.4-30.9]	35.9 [35.5-36.3]	30.5↓ [30.3-30.7]	26.7 [26.4-27.1]
I had concerns about the safety of the flu vaccine and/or side effects	23.9 [23.8-24.1]	23.9 [23.6-24.1]	24.0 [23.8-24.2]	27.9 [27.5-28.2]	22.8 [22.5-23.1]	22.8 [22.6-23.0]
My child had a bad experience with previous vaccines	4.9 [4.8-4.9]	4.9 [4.8-5.0]	4.8 [4.7-4.9]	4.1 [4.0-4.2]	5.0 [5.0-5.1]	5.2 [5.0-5.3]
I did not know where to get reliable information	1.3 [1.3-1.4]	1.2 [1.2-1.3]	1.4 [1.4-1.5]	2.1 [1.9-2.2]	1.4 [1.4-1.5]	0.8 [0.7-0.8]
Religious or philosophical reasons	4.7 [4.6-4.8]	4.8 [4.7-4.9]	4.6 [4.5-4.7]	8.3 [8.1-8.5]	3.6 [3.5-3.7]	3.7 [3.6-3.8]
My child had a bad experience with healthcare providers	0.9 [0.9-1.0]	0.6 [0.6-0.7]	1.3 [1.3-1.4]	1.2 [1.2-1.3]	0.9 [0.8-0.9]	0.9 [0.8-0.9]
Concerns about racism or discrimination	0.4 [0.4-0.4]	0.3 [0.3-0.3]	0.4 [0.4-0.5]	0.8 [0.8-0.9]	#	#
Never get flu vaccine/not necessary	4.8 [4.7-4.8]	5.2 [5.1-5.3]	4.3 [4.2-4.4]	2.8 [2.7-2.9]	4.9 [4.8-5.0]	5.8 [5.7-5.9]
Concerns about combining the COVID-19 and flu vaccine/COVID-19 vaccine was enough	1.9 [1.8-1.9]	1.7 [1.6-1.7]	2.1 [2.0-2.1]	#	2.8 [2.8-2.9]	1.9 [1.9-1.9]
Other	11.7 [11.6-11.8]	12.0 [11.8-12.1]	11.4 [11.2-11.5]	12.5↑ [12.3-12.7]	11.4 [11.2-11.5]	11.5↓ [11.4-11.6]

¹ Multiple response options could be selected by respondents.

² Among all parents, regardless of child's vaccination status.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

There are a group of people that were both hesitant and refused to vaccinate their child during the 2021-2022 flu season.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 18. Impact of the COVID-19 pandemic on parents' decision to vaccinate children against the flu, during the 2021-2022 flu season, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	6 months - 4 years (%)	5-11 years (%)	12-17 years (%)
Yes, it motivated me to get my child vaccinated against the flu	10.6 [10.5-10.6]	10.2 [10.1-10.3]	10.9 [10.8-11.0]	13.4 [13.2-13.6]	9.8 [9.7-9.9]	9.3 [9.2-9.5]
Yes, it made me not want to get my child vaccinated against the flu	9.7 [9.6-9.7]	9.7 [9.6-9.8]	9.6 [9.6-9.7]	7.8 [7.7-7.9]	10.3 [10.3-10.4]	10.2 [10.1-10.3]
No, it did not impact my decision one way or another	79.8 [79.7-79.9]	80.1 [80.0-80.2]	79.5↓ [79.3-79.6]	78.8 [78.6-79.0]	79.9 [79.7-80.0]	80.4 [80.3-80.6]

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 19a. Parental intention to vaccinate their children against the flu, during the next flu season (2022-2023 season), by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 6 months - 4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Definitely will	26.6 [26.4-26.8]	25.8 [25.4-26.1]	27.5↑ [27.2-27.8]	35.5↑ [35.1-36.0]	26.1 [25.8-26.4]	20.7 [20.5-20.9]
Probably will	23.8 [23.8-23.9]	23.9 [23.8-24.0]	23.8 [23.7-23.9]	23.1 [23.0-23.3]	24.8 [24.7-25.0]	23.2 [23.1-23.3]
Probably won't	22.8 [22.7-23.0]	22.6 [22.3-22.8]	23.1 [22.9-23.3]	17.7 [17.4-18.0]	22.9 [22.7-23.1]	26.4 [26.3-26.6]
Definitely won't	18.7 [18.6-18.8]	19.8 [19.6-19.9]	17.7 [17.5-17.8]	17.5↑ [17.3-17.7]	18.1 [18.0-18.3]	20.3 [20.1-20.5]
Don't know	8.0 [8.0-8.0]	8.0 [8.0-8.1]	8.0 [7.9-8.0]	6.1 [6.1-6.2]	8.0 [7.9-8.1]	9.4 [9.3-9.4]

Table 19b. Parental intention to vaccinate their children against the flu, during the next flu season (2022-2023 season), by province/territory, Canada, 2022¹

	Definitely will (%)	Probably will (%)	Probably won't (%)	Definitely won't (%)	Don't know (%)
Canada	26.6 [26.4-26.8]	23.8 [23.8-23.9]	22.8 [22.7-23.0]	18.7 [18.6-18.8]	8.0 [8.0-8.0]
Newfoundland and Labrador	42.1 [41.0-43.2]	28.3 [27.8-28.8]	15.4 [14.7-16.1]	9.2 [9.0-9.5]	4.9 [4.7-5.1]
Prince Edward Island	40.9 [40.2-41.6]	28.1 [27.7-28.6]	18.1 [17.4-18.8]	8.5↓ [8.2-8.8]	4.4 [4.2-4.7]
Nova Scotia	37.4 [36.8-38.1]	28.1 [27.6-28.6]	17.7 [17.3-18.1]	8.9 [8.6-9.1]	7.8 [7.5-8.2]

New Brunswick	34.9 [34.6-35.3]	25.6 [25.3-25.8]	15.3 [14.9-15.6]	18.3 [17.9-18.7]	5.9 [5.8-6.1]
Quebec	11.6 [11.5-11.7]	19.4 [19.3-19.5]	33.3 [33.1-33.4]	26.5 [↑] [26.4-26.6]	9.2 [9.2-9.2]
Ontario	28.7 [28.4-29.0]	25.6 [25.5-25.7]	20.8 [20.7-21.0]	16.7 [16.7-16.8]	8.2 [8.1-8.2]
Manitoba	37.9 [37.1-38.7]	22.7 [22.5-22.9]	16.4 [16.2-16.7]	14.3 [13.9-14.7]	8.6 [8.2-9.0]
Saskatchewan	32.6 [31.7-33.5]	22.0 [21.2-22.8]	20.6 [19.8-21.3]	16.8 [16.4-17.1]	8.1 [7.8-8.3]
Alberta	33.8 [33.4-34.2]	24.7 [24.6-24.8]	17.7 [17.4-17.9]	18.0 [17.8-18.2]	5.9 [5.7-6.0]
British Columbia	27.8 [27.4-28.1]	24.5 [↑] [24.4-24.7]	22.1 [21.9-22.4]	17.3 [17.1-17.4]	8.3 [8.2-8.4]
Yukon	33.7 [32.3-35.2]	29.8 [28.6-31.1]	13.0 [11.8-14.3]	14.3 [12.8-15.9]	9.1 [8.4-9.9]
Northwest Territories	45.9 [44.9-47.0]	23.2 [22.1-24.5]	11.2 [10.1-12.5]	13.2 [12.3-14.1]	6.4 [5.8-7.1]
Nunavut	34.3 [29.9-39.1]	41.5 [↓] [40.3-42.6]	14.0 [11.6-16.7]	#	#

¹ Among all parents, regardless of child's vaccination status.

[95% confidence intervals in brackets]

The symbols [↑] and [↓] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Demographic Characteristics of Children (T20a to T20d)

Table 20a. Level of schooling among children vaccinated with at least one dose of a COVID-19 vaccine, by sex and age group, Canada, 2022

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Day care or preschool	0.4 [0.3-0.4]	0.2 [0.2-0.2]	0.5↑ [0.5-0.6]	N/A	0.7 [0.7-0.8]	#
Kindergarten	3.7 [3.6-3.8]	3.7 [3.6-3.9]	3.7 [3.6-3.8]	N/A	7.6 [7.5-7.7]	#
Grades 1 to 6	47.0 [46.0-48.0]	47.8 [46.4-49.3]	46.2 [44.7-47.6]	N/A	90.5↑ [90.5-90.6]	5.4 [5.3-5.5]
Secondary I-III / Grades 7 to 9	20.2 [19.8-20.7]	20.0 [19.4-20.7]	20.4 [19.7-21.0]	N/A	0.9 [0.9-0.9]	38.7 [38.5-38.8]
Secondary IV-V / Grades 10 to 12	27.3 [26.7-28.0]	26.9 [26.0-27.8]	27.8 [26.9-28.7]	N/A	#	53.4 [53.1-53.8]
CEGEP, college or university	1.1 [1.0-1.1]	0.9 [0.8-1.0]	1.2 [1.1-1.3]	N/A	#	2.1 [1.9-2.2]
None of the above	0.3 [0.3-0.3]	0.4 [0.4-0.4]	0.2 [0.2-0.3]	N/A	0.2 [0.2-0.2]	0.4 [0.4-0.4]

Table 20b. Ethnic/racial background among children vaccinated with at least one dose of a COVID-19 vaccine, by sex and age group, Canada, 2022¹

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Black (African, Afro-Caribbean, African descent)	4.0 [3.9-4.0]	3.7 [3.7-3.8]	4.2 [4.2-4.3]	N/A	3.5↑ [3.5-3.6]	4.4 [4.3-4.5]

East/Southeast Asian (e.g., Chinese, Korean, Japanese, Taiwanese, Filipino, Vietnamese, Cambodian, Thai, Indonesian, other Southeast Asian descent)	7.1 [7.1-7.2]	7.7 [7.6-7.8]	6.6 [6.5-6.7]	N/A	6.7 [6.6-6.9]	7.5↑ [7.4-7.6]
Indigenous (First Nations, Métis, Inuk/Inuit)	3.2 [3.1-3.3]	3.2 [3.1-3.3]	3.2 [3.0-3.3]	N/A	3.0 [2.9-3.2]	3.3 [3.2-3.4]
Indigenous from another part of the world	0.2 [0.2-0.2]	0.2 [0.2-0.2]	0.2 [0.2-0.2]	N/A	0.2 [0.2-0.2]	0.2 [0.2-0.2]
Latin American	2.4 [2.3-2.4]	2.5↑ [2.5-2.6]	2.2 [2.2-2.2]	N/A	2.7 [2.6-2.7]	2.1 [2.1-2.1]
Middle Eastern and North African (Arab, Algerian, Egyptian, West Asian descent (e.g. Iranian, Israeli, Lebanese, Turkish, Kurdish, etc.))	3.0 [2.9-3.0]	3.6 [3.5-3.6]	2.4 [2.3-2.4]	N/A	3.0 [2.9-3.0]	3.0 [2.9-3.0]
South Asian descent (e.g., Afghan, Indian, Pakistani, Bangladeshi, Sri Lankan, etc.)	4.1 [4.1-4.2]	4.3 [4.2-4.3]	4.0 [3.9-4.1]	N/A	3.8 [3.7-3.9]	4.5↓ [4.4-4.5]
White European descent	76.5↑ [76.4-76.7]	75.3 [75.1-75.5]	77.8 [77.6-78.0]	N/A	78.7 [78.6-78.9]	74.4 [74.2-74.6]
Other	4.4 [4.3-4.4]	4.4 [4.4-4.5]	4.3 [4.2-4.3]	N/A	4.3 [4.3-4.3]	4.4 [4.4-4.5]

Table 20c. Indigenous identity among children vaccinated with at least one dose of a COVID-19 vaccine by sex and age group, Canada, 2022¹

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
First Nations (includes status and non status individuals)	41.5↓ [40.5-42.4]	36.8 [35.7-37.9]	46.3 [44.8-47.8]	N/A	40.3 [38.9-41.7]	42.5↑ [41.3-43.7]
Métis	39.9 [38.9-41.0]	47.3 [45.7-48.8]	32.4 [31.1-33.6]	N/A	38.5↑ [36.8-40.3]	41.1 [39.9-42.4]
Inuk/Inuit	10.4 [8.8-12.1]	10.3 [8.3-12.6]	10.5↓ [8.3-13.1]	N/A	15.2 [12.9-17.8]	6.1* [4.3-8.6]

Table 20d. Urban or rural location among children vaccinated with at least one dose of a COVID-19 vaccine by sex and age group, Canada, 2022

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Urban	87.9 [87.7-88.0]	88.0 [87.8-88.2]	87.7 [87.5-87.8]	N/A	88.2 [87.9-88.4]	87.6 [87.4-87.7]
Rural	12.1 [12.0-12.3]	12.0 [11.8-12.2]	12.3 [12.2-12.5]	N/A	11.8 [11.6-12.1]	12.4 [12.3-12.6]

¹ Multiple response options could be selected by respondents.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

N/A: Not applicable.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 21a. Uptake of recommended routine vaccinations¹ prior to the start of the COVID-19 pandemic among children younger than 18 years, by sex and age group, Canada, 2022

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Yes, all	93.3 [93.3-93.4]	93.4 [93.4-93.5]	93.2 [93.2-93.3]	93.4 [93.3-93.4]	94.0 [93.9-94.0]	92.6 [92.5-92.6]
No, only some were received	4.3 [4.2-4.3]	4.1 [4.0-4.1]	4.4 [4.4-4.5]	3.8 [3.7-3.8]	3.8 [3.8-3.9]	5.0 [5.0-5.1]
No, none	2.4 [2.4-2.4]	2.5↓ [2.4-2.5]	2.3 [2.3-2.4]	2.9 [2.8-2.9]	2.2 [2.2-2.2]	2.4 [2.4-2.4]

Table 21b. Uptake of recommended routine vaccinations¹ prior to the start of the COVID-19 pandemic among children younger than 18 years, who had at least one dose of a COVID-19 vaccine, by sex and age group, Canada, 2022

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Yes, all	95.9 [95.8-95.9]	96.1 [96.0-96.2]	95.7 [95.6-95.8]	N/A	97.3 [97.3-97.4]	94.5↑ [94.5-94.6]
No, only some were received	2.9 [2.9-2.9]	2.8 [2.7-2.8]	3.0 [3.0-3.1]	N/A	1.9 [1.9-2.0]	3.8 [3.8-3.9]
No, none	1.2 [1.2-1.2]	1.1 [1.1-1.2]	1.2 [1.2-1.3]	N/A	0.7 [0.7-0.8]	1.6 [1.6-1.6]

¹ Routine childhood vaccinations for children <18 years of age include vaccines against infections such as measles, mumps, rubella, chickenpox, hepatitis B, tetanus, diphtheria, human papilloma virus, etc.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

N/A: Not applicable.

Table 22a. Presence of a medical condition among children vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022^{1,2,3}

Presence of a medical condition	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Yes	14.0 [13.9-14.1]	15.4 [15.3-15.5]	12.5↑ [12.4-12.6]	N/A	13.9 [13.8-14.0]	14.1 [14.0-14.2]
No ⁴	86.0 [85.9-86.1]	84.6 [84.5-84.7]	87.5↓ [87.4-87.6]	N/A	86.1 [86.0-86.2]	85.9 [85.8-86.0]

Table 22b. Presence of a medical condition among children who received a flu vaccine during the 2021-2022 flu season, by child's sex and age group, Canada, 2022^{1,3}

Presence of a medical condition	Overall (%)	Males (%)	Females (%)	6 months - 4 years (%)	5-11 years (%)	12-17 years (%)
Yes	14.7 [14.6-14.9]	17.1 [16.9-17.3]	12.4 [12.2-12.5]	10.3 [10.1-10.4]	15.4 [15.1-15.7]	19.2 [19.0-19.4]
No ⁴	85.3 [85.1-85.4]	82.9 [82.7-83.1]	87.6 [87.5-87.8]	89.7 [89.6-89.9]	84.6 [84.3-84.9]	80.8 [80.6-81.0]

¹ Multiple response options could be selected by respondents.

² Overall includes 5 to 17 year olds; children 4 years and below were not eligible for vaccination at the time of data collection.

³ Medical conditions of interest include sickle cell anemia or thalassemia major, neurologic or neurodevelopmental disorders, asthma or other chronic lung diseases, chronic liver, heart or kidney disease, diabetes, obesity or Down Syndrome, immune suppression or cancer and other medical conditions.

⁴ Exclusive response option.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

N/A: Not applicable.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 23a. Presence of disability among children vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022^{1,2}

	Overall (%)	Males (%)	Females (%)	0-4 years (%)	5-11 years (%)	12-17 years (%)
Yes	7.9 [7.8-8.0]	9.5↓ [9.4-9.5]	6.3 [6.2-6.4]	N/A	7.3 [7.3-7.4]	8.4 [8.4-8.5]
No	92.1 [92.0-92.2]	90.5↓ [90.5-90.6]	93.7 [93.6-93.8]	N/A	92.7 [92.6-92.7]	91.6 [91.5-91.6]

Table 23b. Presence of disability among children who received a flu vaccine during the 2021-2022 flu season, by child's sex and age group, Canada, 2022¹

	Overall (%)	Males (%)	Females (%)	6 months - 4 years (%)	5-11 years (%)	12-17 years (%)
Yes	6.0 [6.0-6.1]	7.0 [6.9-7.1]	5.1 [5.0-5.2]	2.4 [2.3-2.5]	6.6 [6.5-6.7]	9.6 [9.5-9.8]
No	94.0 [93.9-94.0]	93.0 [92.9-93.1]	94.9 [94.8-95.0]	97.6 [97.5-97.7]	93.4 [93.3-93.5]	90.4 [90.2-90.5]

¹ A person with a disability is a person who has a long-term or recurring impairment (such as vision, hearing, mobility, flexibility, dexterity, pain, learning, developmental, memory or mental health-related) which limits their daily activities inside or outside the home (such as at school, work, or in the community in general).

² Overall includes 5 to 17 year olds; children 4 years and below were not eligible for vaccination at the time of data collection.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

N/A: Not applicable.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 24. Percentage of parents of children younger than 18 years, vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Pop'n estimate ('000)	7,166	3,660	3,506	1,870	2,853	2,443
At least one dose of a COVID-19 vaccine	91.1 [91.0-91.2]	90.9 [90.8-90.9]	91.4 [91.3-91.5]	88.8 [88.7-89.0]	91.9 [91.9-91.9]	91.9 [91.8-92.0]
Not vaccinated against COVID-19	8.9 [8.8-9.0]	9.1 [9.1-9.2]	8.6 [8.5-8.7]	11.1 [11.0-11.3]	8.1 [8.1-8.1]	8.1 [8.0-8.2]

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 25. Percentage of parents of children younger than 18 years, vaccinated with at least one dose of a COVID-19 vaccine, by province/territory, by child's sex and age group, Canada, 2022

	Pop'n estimate ('000) ¹	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Canada	7,166	91.1 [91.0-91.2]	90.9 [90.8-90.9]	91.4 [91.3-91.5]	88.8 [88.7-89.0]	91.9 [91.9-91.9]	91.9 [91.8-92.0]
Newfoundland and Labrador	84	96.8 [96.6-96.9]	96.8 [96.7-96.9]	96.8 [96.4-97.1]	94.6 [94.3-94.9]	97.9 [97.9-98.0]	96.9 [96.8-97.0]
Prince Edward Island	30	95.0 [94.6-95.3]	96.7 [96.5-96.9]	93.2 [92.6-93.7]	91.5↓ [90.5-92.4]	94.8 [94.7-94.8]	97.4 [97.2-97.6]
Nova Scotia	164	94.9 [94.6-95.3]	91.9 [91.6-92.2]	98.1 [97.9-98.3]	92.3 [91.5-93.0]	95.6 [95.3-95.9]	96.1 [95.4-96.7]
New Brunswick	135	92.8 [92.3-93.2]	92.3 [91.4-93.1]	93.3 [92.9-93.7]	89.8 [88.2-91.2]	93.2 [92.8-93.6]	94.3 [94.0-94.6]
Quebec	1,591	92.8 [92.8-92.8]	92.4 [92.3-92.5]	93.2 [93.1-93.3]	92.0 [91.9-92.2]	92.0 [92.0-92.1]	94.4 [94.4-94.4]
Ontario	2,720	91.2 [91.0-91.2]	91.3 [91.2-91.3]	91.0 [90.8-91.2]	87.7 [87.5-87.9]	92.6 [92.5-92.6]	92.1 [92.1-92.2]
Manitoba	306	89.3 [88.8-89.7]	87.2 [86.4-87.9]	91.4 [91.1-91.6]	85.6 [84.3-86.8]	90.2 [90.0-90.3]	91.1 [90.8-91.4]
Saskatchewan	270	88.4 [88.2-88.7]	88.8 [88.4-89.2]	88.1 [87.7-88.4]	86.0 [85.7-86.3]	91.1 [91.0-91.2]	87.1 [86.8-97.3]
Alberta	966	89.0 [88.9-89.2]	89.6 [89.6-89.6]	88.4 [88.1-88.6]	89.8 [89.8-89.8]	90.3 [90.3-90.4]	86.7 [86.5-86.9]
British Columbia	867	89.7 [89.6-89.9]	88.6 [88.4-88.7]	91.0 [90.7-91.2]	85.7 [85.6-85.7]	90.4 [90.3-90.6]	91.9 [91.8-92.1]
Yukon	8	96.1 [95.2-96.8]	97.0 [95.5-98.0]	95.0 [94.1-95.8]	94.0 [91.8-95.6]	96.3 [95.0-97.2]	97.6 [96.7-98.2]
Northwest Territories	11	95.2 [94.5-95.9]	92.3 [91.5-93.1]	98.1 [97.4-98.6]	97.1 [96.0-97.9]	91.8 [90.7-92.8]	97.9 [97.3-98.4]

Nunavut	14	97.7 [96.5-98.5]	98.3 [97.1-99.0]	97.2 [95.2-98.3]	96.9 [95.4-98.3]	#	95.5↓ [93.4-97.2]
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¹ Weighted sample of those that responded to the question.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 26. Percentage of parents of children younger than 18 years, by number of COVID-19 vaccine doses received, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
One dose	1.3 [1.3-1.3]	1.4 [1.3-1.4]	1.2 [1.2-1.2]	1.5 [↑] [1.5-1.6]	1.1 [1.1-1.1]	1.3 [1.3-1.3]
Two doses	27.2 [27.1-27.3]	27.7 [27.6-27.8]	26.6 [26.5-26.8]	28.9 [28.6-29.1]	27.0 [26.8-27.1]	26.1 [26.0-26.3]
Three doses	70.3 [70.2-70.4]	69.8 [69.7-69.9]	70.8 [70.6-71.0]	68.9 [68.6-69.1]	71.1 [70.9-71.2]	70.5 [↓] [70.3-70.7]
Four or more doses	1.2 [1.2-1.3]	1.1 [1.1-1.2]	1.3 [1.3-1.4]	0.7 [0.7-0.7]	0.9 [0.8-0.9]	2.1 [2.0-2.1]

[95% confidence intervals in brackets]

The symbols [↑] and [↓] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 27. Parental intention to vaccinate themselves against COVID-19, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Definitely will	0.7 [0.6-0.7]	#	#	#	#	#
Probably will	1.4 [1.3-1.4]	#	#	1.6 [1.5-1.7]	#	2.1 [2.0-2.2]
Probably won't	11.6 [11.5-11.8]	11.2 [10.9-11.5]	12.1 [11.9-12.3]	16.7 [16.3-17.0]	9.5↓ [9.3-9.7]	8.7 [8.6-8.9]
Definitely won't	84.0 [83.4-84.2]	84.6 [84.3-84.9]	83.4 [83.1-83.6]	79.5 ↑ [79.1-79.9]	85.7 [85.4-86.0]	86.9 [86.7-87.1]
Don't know	2.3 [2.2-2.4]	1.7 [1.6-1.8]	3.0 [2.9-3.1]	#	3.6 [3.5-3.8]	#

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 28. Reasons for not receiving a COVID-19 vaccine among parents of children younger than 18 years, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
I have an appointment in the future	0.6 [0.5-0.6]	#	#	#	#	#
I have a medical exemption	1.2 [1.1-1.3]	1.1 [1.0-1.3]	#	#	#	2.4 [2.3-2.5]
I was hesitant to get vaccinated	9.0 [8.9-9.1]	10.0 [9.9-10.2]	7.9 [7.8-8.1]	7.7 [7.5-7.9]	9.6 [9.4-9.7]	9.9 [9.7-10.1]
I decided not to get vaccinated	88.3 [88.2-88.4]	87.9 [87.7-88.1]	88.7 [88.6-88.9]	90.8 [90.6-91.0]	87.2 [87.0-87.4]	86.8 [86.6-87.0]
I faced an obstacle beyond my control	0.9 [0.9-0.9]	#	1.6 [1.5-1.6]	#	#	#

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

COVID-19 vaccines refer to those that have been approved for use in Canada.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 29. Vaccine hesitancy among parents of children younger than 18 years of age, to vaccinate themselves against COVID-19, by child's sex and age group, Canada, 2022^{1,2}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Yes, hesitant	34.3 [34.2-34.4]	34.8 [34.7-34.9]	33.7 [33.5-33.8]	36.8 [36.6-36.9]	34.9 [34.8-35.1]	31.5 [↑] [31.4-31.7]
Not hesitant	65.7 [65.6-65.8]	65.2 [65.1-65.3]	66.3 [66.2-66.5]	63.2 [63.1-63.4]	65.1 [64.9-65.2]	68.5 [↓] [68.3-68.6]

¹ Vaccine hesitancy refers to a delay in acceptance or refusal of vaccines despite availability.

² Among all parents, regardless of parent's vaccination status.

[95% confidence intervals in brackets]

The symbols [↑] and [↓] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 30a. Reasons why parents of children younger than 18 years were hesitant to vaccinate themselves against COVID-19, by child's sex and age group, Canada, 2022^{1,2,3}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
I am not at risk of getting COVID-19 or at risk of severe infection	27.7 [27.5-27.8]	28.1 [27.9-28.3]	27.2 [27.0-27.4]	35.0 [34.7-35.2]	26.4 [26.3-26.6]	22.8 [22.6-22.9]
I want/wanted to first discuss COVID-19 vaccines with my health care practitioner	6.9 [6.8-6.9]	6.6 [6.5-6.7]	7.2 [7.1-7.2]	8.4 [8.3-8.6]	6.5↓ [6.4-6.6]	5.9 [5.8-6.0]
Concerns that not enough research on the vaccine has been done	65.4 [65.3-65.5]	64.1 [63.9-64.2]	66.8 [66.6-66.9]	66.6 [66.4-66.8]	64.5↑ [64.3-64.7]	65.4 [65.2-65.5]
Concerns about the effectiveness of COVID-19 vaccines	50.6 [50.5-50.7]	50.2 [50.0-50.4]	51.0 [50.9-51.2]	54.4 [54.2-54.7]	51.2 [51.1-51.3]	46.4 [46.2-46.6]
Concerns about the safety of COVID-19 vaccines and/or side effects	65.7 [65.6-65.9]	63.5↑ [63.3-63.7]	68.1 [67.9-68.3]	65.7 [65.3-66.1]	66.4 [66.2-66.6]	65.0 [64.7-65.2]
Bad experience or reaction with previous vaccination	9.4 [9.3-9.5]	8.4 [8.3-8.5]	10.5↓ [10.4-10.6]	9.1 [9.0-9.3]	9.5↓ [9.3-9.6]	9.5↑ [9.4-9.6]
Do/did not know where to get reliable information	6.9 [6.8-6.9]	6.7 [6.7-6.8]	7.0 [6.9-7.1]	7.7 [7.6-7.9]	5.7 [5.6-5.8]	7.7 [7.6-7.8]
Religious or philosophical reasons	6.4 [6.3-6.5]	6.2 [6.0-6.3]	6.7 [6.6-6.8]	9.0 [8.8-9.2]	5.0 [4.9-5.1]	6.0 [5.8-6.1]
I had a bad experience with healthcare providers	2.5↑ [2.5-2.6]	2.5↑ [2.5-2.6]	2.6 [2.5-2.6]	3.5↓ [3.4-3.6]	2.1 [2.1-2.2]	2.3 [2.2-2.3]
Concerns about racism or discrimination	1.6 [1.5-1.6]	1.5↓ [1.4-1.5]	1.7 [1.6-1.7]	1.5↓ [1.4-1.5]	1.2 [1.2-1.2]	2.2 [2.1-2.2]
Concerns about pregnancy/breastfeeding	1.2 [1.2-1.2]	1.0 [1.0-1.1]	1.4 [1.3-1.4]	0.4 [0.4-0.4]	#	#
Already had COVID-19/natural immunity	2.0 [2.0-2.0]	1.8 [1.8-1.9]	2.1 [2.1-2.2]	1.9 [1.8-2.0]	1.8 [1.7-1.8]	2.2 [2.2-2.3]
Lack of trust in the government	1.9 [1.9-1.9]	2.3 [2.2-2.3]	1.5↓ [1.4-1.5]	1.7 [1.6-1.8]	2.3 [2.2-2.3]	1.6 [1.6-1.6]

Concerns about the impact of the vaccine on other health conditions	0.8 [0.8-0.8]	0.6 [0.6-0.6]	1.0 [1.0-1.0]	0.8 [0.7-0.8]	0.8 [0.7-0.8]	0.9 [0.8-0.9]
Other	11.9 [11.8-12.0]	11.4 [11.3-11.6]	12.4 [12.2-12.6]	15.9 [15.6-16.2]	9.9 [9.8-10.0]	10.8 [10.7-11.0]

Table 30b. Reasons why parents of children younger than 18 years decided not to vaccinate themselves against COVID-19, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
I am not at risk of getting COVID-19 or at risk of severe infection	45.9 [45.6-46.3]	49.7 [49.2-50.2]	41.8 [41.3-41.2]	57.3 [56.8-57.9]	46.7 [46.4-47.1]	31.9 [31.5-32.2]
I want/wanted to first discuss COVID-19 vaccines with my health care practitioner	1.6 [1.5-1.7]	0.1 [0.9-1.0]	2.4 [2.2-2.5]	2.1 [2.0-2.3]	1.9 [1.8-2.1]	#
Concerns that not enough research on the vaccine has been done	63.6 [63.3-63.9]	64.5 [†] [64.1-65.0]	62.6 [62.3-63.0]	70.2 [69.7-70.7]	63.9 [63.7-64.2]	55.7 [55.2-56.3]
Concerns about the effectiveness of COVID-19 vaccines	63.2 [62.9-63.5]	64.7 [64.2-65.1]	61.6 [61.2-62.0]	69.4 [68.9-69.9]	64.0 [63.6-64.3]	55.2 [54.7-55.8]
Concerns about the safety of COVID-19 vaccines and/or side effects	73.2 [73.0-73.4]	73.6 [73.3-73.9]	72.8 [72.4-73.1]	76.7 [76.3-77.0]	71.0 [70.7-71.3]	71.8 [71.3-72.3]
Bad experience or reaction with previous vaccination	9.9 [9.7-10.0]	10.4 [10.3-10.6]	9.2 [9.0-9.4]	9.9 [9.7-10.1]	10.1 [9.8-10.3]	9.6 [9.4-9.7]
Do/did not know where to get reliable information	4.6 [4.5-4.7]	5.1 [4.9-5.3]	4.0 [3.9-4.1]	7.0 [6.7-7.2]	2.6 [2.6-2.7]	4.1 [4.0-4.3]
Religious or philosophical reasons	19.6 [19.3-19.8]	19.1 [18.7-19.5]	20.1 [19.8-20.5]	24.9 [24.5-25.4]	16.3 [16.0-16.7]	17.4 [17.0-17.7]
I had a bad experience with healthcare providers	5.8 [5.7-5.9]	6.3 [6.2-6.4]	5.2 [5.0-5.4]	8.1 [7.8-8.4]	4.7 [4.5-4.9]	4.4 [4.3-4.5]
Concerns about racism or discrimination	1.9 [1.8-1.9]	1.2 [1.2-1.3]	2.6 [2.5-2.7]	2.5 [‡] [2.3-2.6]	1.8 [1.7-1.9]	#

	#	#	#	#	#	#
Concerns about pregnancy/breastfeeding						
Already had COVID-19/natural immunity	5.0 [4.9-5.2]	3.6 [3.5-3.7]	6.6 [6.3-6.8]	5.2 [5.0-5.5]	5.2 [4.9-5.4]	4.6 [4.3-4.8]
Lack of trust in the government	3.4 [3.3-3.5]	3.9 [3.8-4.0]	2.9 [2.7-3.0]	2.7 [2.5-2.8]	3.5↓ [3.4-3.6]	4.2 [4.0-4.4]
Concerns about the impact of the vaccine on other health conditions	#	#	#	#	#	#
Other	20.1 [19.8-20.3]	18.1 [17.8-18.4]	22.3 [21.9-22.6]	20.1 [19.7-20.5]	19.6 [19.3-20.0]	20.6 [20.1-21.0]

¹ Multiple response options could be selected by respondents.

² Vaccine hesitancy refers to a delay in acceptance or refusal of vaccines despite availability.

³ Among all parents, regardless of parent's vaccination status.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 31. Frequency of receiving a flu vaccination prior to the COVID-19 pandemic, among parents of children younger than 18 years, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Every flu season	23.1 [23.0-23.2]	22.8 [22.6-23.0]	23.4 [23.2-23.5]	24.7 [24.4-25.0]	22.4 [22.2-22.6]	22.7 [22.5-22.8]
Most flu seasons	19.7 [19.6-19.8]	19.3 [19.1-19.4]	20.1 [19.9-20.3]	21.9 [21.6-22.1]	20.5 [†] [20.4-20.7]	17.0 [16.9-17.2]
Some flu seasons (including once only)	27.8 [27.7-27.9]	27.9 [27.8-28.0]	27.7 [27.6-27.8]	25.9 [25.7-26.1]	28.4 [28.4-28.5]	28.5 [†] [28.5-28.6]
Never	29.4 [29.2-29.6]	30.0 [29.8-30.3]	28.8 [28.5-29.0]	27.6 [27.2-28.0]	28.6 [28.3-28.9]	31.8 [31.5-32.1]

[95% confidence intervals in brackets]

The symbols [†] and [‡] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 32. Flu vaccination coverage during the 2021-2022 flu season, among parents of children younger than 18 years, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Yes	37.1 [36.9-37.4]	37.0 [36.7-37.4]	37.3 [36.9-37.6]	44.5↓ [44.0-45.0]	35.8 [35.5-36.1]	33.1 [32.8-33.4]
No	62.9 [62.6-63.1]	63.0 [62.6-63.3]	62.7 [62.4-63.1]	55.5↑ [55.1-56.0]	64.2 [63.9-64.5]	66.9 [66.6-67.2]

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 33. Percentage of all parents of children younger than 18 years, who were hesitant to vaccinate themselves against the flu during the 2021-2022 flu season, by child's sex and age group, Canada, 2022^{1,2}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Yes, hesitant	20.5↓ [20.4-20.6]	20.8 [20.7-20.9]	20.1 [20.0-20.3]	18.0 [17.9-18.2]	20.2 [20.1-20.3]	22.7 [22.6-22.8]
Not hesitant	79.5↑ [79.4-79.6]	79.2 [79.1-79.3]	79.9 [79.7-80.0]	82.0 [81.8-82.1]	79.8 [79.7-79.9]	77.3 [77.2-77.4]

¹ Vaccine hesitancy refers to a delay in acceptance or refusal of vaccines despite availability.

² Among all parents, regardless of parent's vaccination status.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 34. Percentage of all parents of children younger than 18 years, who refused to vaccinate themselves against the flu during the 2021-2022 flu season, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Yes, refused	50.4 [50.3-50.5]	51.1 [50.9-51.2]	49.7 [49.6-49.8]	50.7 [50.5-50.9]	51.3 [51.1-51.5]	49.2 [49.1-49.3]
Not refused	49.6 [49.5-49.7]	48.9 [48.8-49.1]	50.3 [50.2-50.4]	49.3 [49.1-49.5]	48.7 [48.5-48.9]	50.8 [50.7-50.9]

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 35a. Reasons why parents of children younger than 18 years were hesitant to vaccinate themselves against the flu during the 2021-2022 flu season, by child's sex and age group, Canada, 2022^{1,2,3}

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
I am not at risk of getting the flu or at risk of severe infection	41.5↑ [41.3-41.7]	43.4 [43.2-43.7]	39.4 [39.2-39.7]	47.6 [47.3-47.9]	41.1 [40.9-41.3]	38.2 [37.9-38.5]
I wanted to first discuss the flu vaccine with my health care practitioner	2.6 [2.5-2.6]	2.1 [2.1-2.2]	3.0 [2.9-3.1]	3.4 [3.3-3.6]	2.2 [2.1-2.2]	2.4 [2.4-2.5]
I was concerned about the effectiveness of the flu vaccine	42.4 [42.3-42.6]	42.0 [41.7-42.3]	42.8 [42.6-43.1]	47.5↓ [47.1-47.8]	44.2 [44.0-44.4]	37.6 [37.3-37.8]
I had concerns about the safety of the flu vaccine and/or side effects	29.9 [29.7-30.1]	29.7 [29.5-30.0]	30.1 [29.8-30.3]	32.1 [31.7-32.4]	28.5↓ [28.2-28.8]	30.1 [29.8-30.3]
I had a bad experience with previous vaccines	15.2 [15.0-15.3]	15.3 [15.2-15.5]	14.9 [14.7-15.2]	12.1 [11.8-12.4]	15.7 [15.5-15.9]	16.4 [16.3-15.6]
I did not know where to get reliable information	3.0 [3.0-3.1]	2.8 [2.7-2.8]	3.3 [3.2-3.4]	3.6 [3.5-3.8]	2.5↓ [2.4-2.6]	3.2 [3.1-3.3]
Religious or philosophical reasons	5.4 [5.3-5.5]	5.0 [4.9-5.1]	5.8 [5.6-5.9]	9.4 [9.1-9.7]	3.6 [3.5-3.7]	4.8 [4.7-4.9]
I had a bad experience with healthcare providers	2.5↓ [2.4-2.5]	2.5↓ [2.4-2.5]	2.5↓ [2.4-2.5]	3.2 [3.1-3.4]	2.2 [2.2-2.3]	2.3 [2.2-2.3]
Concerns about racism or discrimination	0.8 [0.8-0.8]	0.8 [0.8-0.8]	0.7 [0.7-0.8]	1.3 [1.2-1.3]	#	0.8 [0.8-0.8]
Never get the flu vaccine/not necessary	3.3 [3.3-3.4]	2.5↑ [2.5-2.6]	4.2 [4.1-4.3]	3.7 [3.6-3.9]	2.9 [2.8-3.0]	3.5↑ [3.5-3.6]
Concerns about combining the COVID-19 and flu vaccine/COVID-19 vaccine was enough	2.5↓ [2.4-2.5]	2.2 [2.1-2.2]	2.8 [2.7-2.9]	1.5↑ [1.4-1.6]	2.5↓ [2.4-2.6]	3.1 [3.0-3.2]
Other	9.5↑ [9.4-9.6]	8.7 [8.6-8.8]	10.4 [10.2-10.5]	10.4 [10.2-10.6]	9.6 [9.5-9.8]	8.9 [8.8-9.0]

Table 35b. Reasons why parents of children younger than 18 years refused to vaccinate themselves against the flu during the 2021-2022 flu season, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
I am not at risk of getting the flu or at risk of severe infection	49.5↓ [49.3-49.7]	51.7 [51.5-52.0]	47.1 [46.8-47.3]	55.5↑ [55.2-55.9]	48.5↓ [48.2-48.7]	46.8 [46.4-47.2]
I wanted to first discuss the flu vaccine with my health care practitioner	1.6 [1.5-1.6]	1.3 [1.3-1.3]	1.8 [1.8-1.9]	2.1 [2.0-2.3]	1.7 [1.7-1.8]	1.0 [0.9-1.0]
I was concerned about the effectiveness of the flu vaccine	35.5↑ [35.4-35.7]	34.1 [33.8-34.3]	37.1 [36.9-37.3]	38.7 [38.4-39.1]	35.8 [35.6-36.0]	33.1 [32.8-33.4]
I had concerns about the safety of the flu vaccine and/or side effects	22.9 [22.7-23.0]	21.6 [21.4-21.9]	24.2 [24.0-24.5]	24.0 [23.7-24.4]	21.2 [21.0-21.5]	24.0 [23.7-24.3]
I had a bad experience with previous vaccines	12.8 [12.7-12.9]	12.4 [12.3-12.6]	13.3 [13.1-13.4]	12.3 [12.1-12.5]	13.1 [13.0-13.2]	12.8 [12.7-13.0]
I did not know where to get reliable information	2.0 [1.9-2.0]	1.7 [1.6-1.8]	2.2 [2.2-2.3]	2.6 [2.4-2.7]	1.5↑ [1.5-1.6]	2.1 [2.0-2.1]
Religious or philosophical reasons	4.7 [4.6-4.8]	4.5↓ [4.4-4.6]	4.9 [4.8-5.1]	8.0 [7.8-8.2]	3.4 [3.3-3.5]	4.0 [3.9-4.1]
I had a bad experience with healthcare providers	1.8 [[1.8-1.8]	1.8 [1.7-1.8]	1.8 [1.8-1.9]	2.6 [2.5-2.7]	1.6 [1.6-1.7]	1.5↓ [1.4-1.6]
Concerns about racism or discrimination	0.6 [0.6-0.6]	0.5↑ [0.5-0.5]	0.7 [0.7-0.7]	0.9 [0.8-0.9]	0.6 [0.6-0.7]	0.4 [0.4-0.4]
Never get the flu vaccine/not necessary	5.2 [5.1-5.2]	5.1 [5.1-5.2]	5.3 [5.2-5.3]	4.8 [4.7-4.9]	5.3 [5.2-5.4]	5.3 [5.2-5.4]
Concerns about combining the COVID-19 and flu vaccine/COVID-19 vaccine was enough	1.3 [1.3-1.4]	1.0 [1.0-1.0]	1.7 [1.6-1.7]	#	1.9 [1.8-1.9]	1.3 [1.3-1.4]
Other	8.6 [8.5-8.6]	8.8 [8.7-8.9]	8.3 [8.2-8.3]	7.2 [7.0-7.3]	8.6 [8.5-8.7]	9.4 [9.3-9.5]

¹ Multiple response options could be selected by respondents.

² Vaccine hesitancy refers to a delay in acceptance or refusal of vaccines despite availability.

³ Among all parents, regardless of parent's vaccination status.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 36. Intentions of parents of children younger than 18 years to vaccinate themselves against the flu during the next flu season (2022-2023 season), by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Definitely will	29.5↓ [29.3-29.7]	29.0 [28.7-29.3]	30.0 [29.7-30.3]	35.6 [35.2-36.1]	28.2 [27.9-28.5]	26.3 [26.0-26.5]
Probably will	23.8 [23.7-23.9]	23.7 [23.6-23.8]	23.9 [23.8-24.0]	22.2 [22.1-22.3]	24.7 [24.6-24.9]	23.9 [23.8-24.0]
Probably won't	20.9 [20.7-21.0]	21.1 [20.9-21.3]	20.6 [20.4-20.8]	18.1 [17.8-18.4]	22.0 [21.8-22.2]	21.6 [21.5-21.8]
Definitely won't	20.6 [20.5-20.7]	20.9 [20.7-21.0]	20.3 [20.2-20.4]	19.8 [19.6-20.0]	20.1 [19.9-20.1]	21.8 [21.7-22.0]
Don't know	5.3 [5.3-5.3]	5.4 [5.3-5.4]	5.2 [5.2-5.2]	4.3 [4.3-4.3]	5.0 [5.0-5.1]	6.3 [6.3-6.4]

¹ Among all parents, regardless of parent's vaccination status.

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 37. Most trusted source of information about COVID-19 vaccines among all parents of children younger than 18 years, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Health care providers	42.2 [42.1-42.3]	42.7 [42.6-42.8]	41.7 [41.6-41.9]	47.2 [47.1-47.4]	41.4 [41.3-41.5]	39.4 [39.3-39.5]
Family/friends	1.9 [1.9-1.9]	2.2 [2.2-2.2]	1.6 [1.6-1.6]	2.0 [2.0-2.0]	1.8 [1.8-1.8]	2.0 [2.0-2.0]
My local public health unit/clinic	6.3 [6.2-6.3]	6.4 [6.4-6.5]	6.1 [6.0-6.2]	4.5↓ [4.4-4.5]	6.5↓ [6.4-6.6]	7.4 [7.3-7.5]
Public Health Agency of Canada/Health Canada	27.0 [26.9-27.1]	25.9 [25.8-26.0]	28.1 [27.9-28.3]	22.0 [21.9-22.1]	28.0 [27.9-28.2]	29.5↑ [29.4-29.7]
Community nursing stations or clinics	0.3 [0.3-0.3]	0.3 [0.3-0.3]	0.3 [0.2-0.3]	0.3 [0.3-0.3]	0.3 [0.3-0.3]	0.2 [0.2-0.3]
News/media/social media	5.5↓ [5.4-5.5]	5.3 [5.2-5.3]	5.7 [5.6-5.7]	5.3 [5.2-5.3]	5.4 [5.4-5.5]	5.6 [5.5-5.7]
National Advisory Committee on Immunization (NACI)	2.6 [2.6-2.6]	2.3 [2.3-2.4]	2.8 [2.8-2.8]	2.5↑ [2.5-2.6]	3.1 [3.0-3.1]	2.0 [2.0-2.0]
International sources (e.g., World Health Organization (WHO))	6.0 [6.0-6.1]	6.2 [6.2-6.3]	5.8 [5.7-5.9]	6.5↓ [6.3-6.6]	6.1 [6.1-6.2]	5.5↑ [5.5-5.6]
Scientific publications, journals	1.2 [1.2-1.2]	1.3 [1.2-1.3]	1.2 [1.1-1.2]	1.5↓ [1.4-1.5]	1.2 [1.2-1.3]	1.0 [0.9-1.0]
Other	5.8 [5.8-5.9]	6.3 [6.2-6.3]	5.4 [5.3-5.4]	6.8 [6.7-6.9]	5.0 [4.9-5.1]	6.1 [6.0-6.2]
None	1.2 [1.2-1.3]	1.1 [1.1-1.2]	1.4 [1.3-1.4]	1.5↑ [1.5-1.6]	1.1 [1.0-1.1]	1.2 [1.2-1.2]

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 38. Knowledge or beliefs regarding vaccines in general, among all parents of children younger than 18 years, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
In general, vaccines are safe						
Strongly agree	62.0 [61.9-62.1]	62.2 [62.1-62.3]	61.7 [61.6-61.8]	63.9 [63.7-64.0]	62.3 [62.1-62.4]	60.2 [60.1-60.3]
Somewhat agree	29.4 [29.3-29.5]	29.7 [29.5-29.8]	29.1 [29.0-29.2]	28.3 [28.1-28.5]	29.4 [29.2-29.5]	30.2 [30.1-30.4]
Somewhat disagree	4.3 [4.2-4.3]	4.2 [4.2-4.3]	4.3 [4.3-4.3]	4.3 [4.3-4.4]	4.1 [4.1-4.1]	4.4 [4.4-4.5]
Strongly disagree	2.6 [2.6-2.6]	2.3 [2.3-2.3]	2.9 [2.9-2.9]	2.4 [2.4-2.5]	2.3 [2.2-2.3]	3.1 [3.0-3.1]
Don't know	1.8 [1.7-1.8]	1.6 [1.5-1.6]	2.0 [2.0-2.0]	1.1 [1.1-1.1]	2.0 [2.0-2.0]	2.0 [2.0-2.1]
In general, vaccines are effective						
Strongly agree	56.5 [†] [56.4-56.6]	56.5 [†] [56.4-56.7]	56.5 [‡] [56.3-56.7]	59.0 [58.8-59.3]	56.2 [56.0-56.4]	54.9 [54.7-55.1]
Somewhat agree	35.7 [35.6-35.8]	36.0 [35.9-36.2]	35.3 [35.1-35.5]	34.4 [34.1-34.6]	36.0 [35.9-36.2]	36.3 [36.1-36.5]
Somewhat disagree	4.1 [4.1-4.2]	4.1 [4.1-4.2]	4.1 [4.1-4.2]	3.8 [3.7-3.8]	4.3 [4.2-4.3]	4.2 [4.2-4.3]
Strongly disagree	2.0 [2.0-2.0]	1.8 [1.8-1.9]	2.1 [2.1-2.1]	1.8 [1.8-1.9]	1.5 [†] [1.5-1.6]	2.6 [2.5-2.6]
Don't know	1.7 [1.7-1.7]	1.5 [‡] [1.5-1.5]	1.9 [1.9-2.0]	1.0 [1.0-1.0]	1.9 [1.9-1.9]	2.0 [2.0-2.1]

[95% confidence intervals in brackets]

The symbols [†] and [‡] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 39. Knowledge or beliefs regarding COVID-19 vaccines, among all parents of children younger than 18 years, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
In general, COVID-19 vaccines are safe						
Strongly agree	48.0 [47.9-48.1]	47.9 [47.8-48.0]	48.0 [47.9-48.2]	48.2 [48.0-48.4]	47.2 [47.0-47.3]	48.8 [48.6-48.9]
Somewhat agree	28.1 [28.0-28.2]	28.7 [28.6-28.9]	27.5↑ [27.4-27.7]	26.2 [26.0-26.4]	29.4 [29.2-29.6]	28.1 [28.0-28.2]
Somewhat disagree	7.3 [7.3-7.4]	7.7 [7.6-7.7]	7.0 [6.9-7.0]	8.5↑ [8.4-8.6]	7.5↑ [7.5-7.5]	6.2 [6.2-6.3]
Strongly disagree	10.1 [10.0-10.1]	9.9 [9.9-10.0]	10.2 [10.0-10.3]	10.9 [10.8-11.0]	9.3 [9.2-9.4]	10.2 [10.1-10.3]
Don't know	6.5↑ [6.5-6.6]	5.7 [5.7-5.8]	7.3 [7.3-7.4]	6.2 [6.1-6.3]	6.6 [6.5-6.7]	6.6 [6.6-6.7]
In general, COVID-19 vaccines are effective						
Strongly agree	38.7 [38.6-38.8]	38.0 [37.9-38.2]	39.4 [39.2-39.6]	37.8 [37.6-38.0]	37.9 [37.8-38.1]	40.3 [40.1-40.5]
Somewhat agree	33.9 [33.8-34.0]	34.2 [34.1-34.3]	33.5↑ [33.4-33.7]	32.0 [31.8-32.1]	34.2 [34.1-34.3]	35.0 [34.8-35.2]
Somewhat disagree	9.2 [9.2-9.3]	9.8 [9.7-10.0]	8.7 [8.6-8.7]	10.2 [10.0-10.3]	10.3 [10.3-10.4]	7.3 [7.2-7.4]
Strongly disagree	13.6 [13.5-13.7]	13.8 [13.7-13.9]	13.3 [13.2-13.4]	15.9 [15.7-16.0]	12.7 [12.5-12.8]	12.9 [12.7-13.0]
Don't know	4.6 [4.5-4.6]	4.1 [4.0-4.1]	5.1 [5.1-5.2]	4.2 [4.1-4.3]	4.9 [4.8-5.0]	4.6 [4.5-4.6]
Additional COVID-19 doses are important to continue to protect myself from the virus						
Strongly agree	34.4 [34.3-34.5]	33.8 [33.7-33.8]	35.1 [34.9-35.2]	33.7 [33.4-33.9]	33.8 [33.7-34.0]	35.7 [35.5-35.8]

Somewhat agree	26.0 [25.9-26.1]	26.1 [26.0-26.1]	25.9 [25.8-26.0]	25.1 [25.0-25.2]	25.7 [25.5-25.8]	27.0 [26.7-27.2]
Somewhat disagree	10.8 [10.7-10.8]	11.4 [11.3-11.5]	10.1 [10.0-10.2]	9.6 [9.4-9.7]	12.4 [12.3-12.6]	9.7 [9.7-9.8]
Strongly disagree	20.4 [20.3-20.5]	20.6 [20.5-20.7]	20.1 [20.0-20.3]	23.2 [23.0-23.3]	19.6 [19.5-19.7]	19.2 [19.0-19.3]
Don't know	8.4 [8.4-8.5]	8.1 [8.1-8.2]	8.8 [8.7-8.8]	8.5↑ [8.4-8.6]	8.5↓ [8.4-8.5]	8.4 [8.3-8.4]
Vaccination is a safer way to build immunity against COVID-19 than getting infected						
Strongly agree	48.0 [47.9-48.1]	47.2 [47.0-47.3]	48.8 [48.7-49.0]	47.9 [47.6-48.1]	48.0 [47.7-48.2]	48.1 [47.9-48.3]
Somewhat agree	20.5↓ [20.3-20.5]	21.2 [21.0-21.3]	19.7 [19.5-19.8]	18.5↑ [18.4-18.7]	20.7 [20.5-20.9]	21.6 [21.4-21.8]
Somewhat disagree	9.0 [8.9-9.0]	9.2 [9.2-9.3]	8.7 [8.6-8.8]	9.1 [9.0-9.1]	9.3 [9.2-9.4]	8.5↓ [8.4-8.5]
Strongly disagree	15.6 [15.5-15.6]	15.5↓ [15.4-15.6]	15.6 [15.5-15.8]	17.1 [17.0-17.2]	14.9 [14.8-15.0]	15.2 [15.0-15.3]
Don't know	7.0 [7.0-7.1]	6.9 [6.9-7.0]	7.1 [7.1-7.2]	7.4 [7.4-7.5]	7.1 [7.0-7.1]	6.7 [6.6-6.7]
My child needs to be vaccinated against COVID-19 even after infection						
Strongly agree	40.9 [40.8-41.0]	40.3 [40.2-40.5]	41.5↓ [41.3-41.7]	39.8 [39.5-40.1]	41.0 [40.8-41.2]	41.5↑ [41.4-41.7]
Somewhat agree	20.5↑ [20.4-20.6]	21.1 [21.0-21.2]	20.0 [19.8-20.1]	18.0 [17.8-18.1]	20.1 [20.0-20.3]	23.0 [22.8-23.1]
Somewhat disagree	9.6 [9.5-9.7]	10.0 [9.9-10.1]	9.2 [9.1-9.3]	9.0 [8.8-9.2]	10.4 [10.3-10.5]	9.1 [9.0-9.2]
Strongly disagree	21.3 [21.2-21.4]	21.0 [20.9-21.1]	21.6 [21.4-21.7]	25.3 [25.1-25.4]	20.9 [20.7-21.0]	18.7 [18.6-18.8]
Don't know	7.7 [7.7-7.8]	7.6 [7.6-7.7]	7.8 [7.7-7.9]	7.9 [7.8-8.0]	7.6 [7.5-7.6]	7.7 [7.7-7.8]

Public health measures are important to prevent and/or reduce the spread of COVID-19						
Strongly agree	55.2 [55.1-55.4]	54.7 [54.5-54.9]	55.7 [55.5-55.9]	53.7 [53.5-54.0]	54.6 [54.4-54.8]	57.1 [56.9-57.3]
Somewhat agree	22.0 [21.9-22.1]	22.9 [22.8-23.1]	21.1 [21.0-21.3]	20.7 [20.5-21.0]	23.6 [23.4-23.7]	21.3 [21.1-21.4]
Somewhat disagree	8.0 [8.0-8.1]	7.5↑ [7.5-7.6]	8.5↑ [8.5-8.6]	9.1 [9.1-9.2]	8.2 [8.2-8.3]	6.9 [6.8-7.0]
Strongly disagree	13.4 [13.3-13.5]	13.5↑ [13.4-13.6]	13.3 [13.2-13.4]	15.1 [15.0-15.3]	12.4 [12.3-12.6]	13.3 [13.1-13.4]
Don't know	1.3 [1.3-1.3]	1.3 [1.3-1.3]	1.3 [1.3-1.3]	1.3 [1.3-1.3]	1.2 [1.2-1.2]	1.5↓ [1.4-1.5]
I have access to enough trustworthy information about COVID-19 vaccines to make an informed decision						
Strongly agree	63.5↑ [63.4-63.6]	63.7 [63.6-63.8]	63.3 [63.2-63.5]	64.1 [63.9-64.3]	62.3 [62.2-62.4]	64.5↓ [64.3-64.6]
Somewhat agree	25.0 [25.0-25.1]	24.9 [24.8-25.0]	25.2 [25.1-25.3]	23.5↓ [23.3-23.6]	26.2 [26.1-26.3]	24.9 [24.8-25.1]
Somewhat disagree	5.2 [5.1-5.2]	5.1 [5.0-5.1]	5.3 [5.2-5.3]	5.9 [5.8-6.0]	5.3 [5.2-5.3]	4.5↓ [4.5-4.5]
Strongly disagree	4.6 [4.5-4.6]	4.6 [4.6-4.7]	4.5↓ [4.4-4.5]	4.5↑ [4.5-4.6]	4.3 [4.3-4.3]	4.9 [4.8-4.9]
Don't know	1.7 [1.7-1.7]	1.7 [1.6-1.7]	1.7 [1.7-1.8]	1.9 [1.9-2.0]	2.0 [1.9-2.0]	1.2 [1.2-1.3]

[95% confidence intervals in brackets]

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.

Table 40. Knowledge or beliefs regarding the flu vaccine, among all parents of children younger than 18 years, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
In general, the flu vaccine is safe						
Strongly agree	56.5 [↑] [56.4-56.6]	56.3 [56.1-56.5]	56.8 [56.6-56.9]	60.1 [59.9-60.3]	56.5 [↑] [56.3-56.7]	53.8 [53.6-53.9]
Somewhat agree	28.8 [28.7-28.9]	28.8 [28.7-28.9]	28.8 [28.7-29.0]	27.4 [27.2-27.6]	28.7 [28.5-28.8]	30.1 [30.0-30.3]
Somewhat disagree	5.5 [↑] [5.5-5.6]	5.3 [5.2-5.3]	5.9 [5.8-5.9]	5.0 [4.9-5.1]	5.6 [5.6-5.6]	5.9 [5.8-5.9]
Strongly disagree	2.8 [2.8-2.9]	2.9 [2.9-3.0]	2.7 [2.7-2.8]	2.5 [↓] [2.4-2.5]	2.8 [2.8-2.9]	3.1 [3.1-3.2]
Don't know	6.3 [6.2-6.3]	6.7 [6.6-6.8]	5.8 [5.8-5.9]	5.0 [4.9-5.2]	6.4 [6.3-6.4]	7.1 [7.0-7.2]
In general, the flu vaccine is effective						
Strongly agree	34.3 [34.1-34.4]	34.0 [33.7-34.2]	34.6 [34.4-34.8]	36.9 [36.6-37.2]	33.4 [33.2-33.7]	33.2 [33.0-33.4]
Somewhat agree	37.2 [37.1-37.2]	37.1 [37.0-37.1]	37.3 [37.2-37.3]	36.0 [35.9-36.2]	37.1 [37.0-37.2]	38.1 [38.0-38.2]
Somewhat disagree	15.7 [15.6-15.7]	15.9 [15.8-16.0]	15.4 [15.3-15.6]	15.4 [15.2-15.5]	16.4 [16.2-16.6]	15.0 [14.9-15.1]
Strongly disagree	5.7 [5.7-5.8]	5.8 [5.8-5.8]	5.7 [5.6-5.7]	5.9 [5.8-5.9]	5.6 [5.6-5.6]	5.8 [5.7-5.8]
Don't know	7.2 [7.1-7.2]	7.3 [7.2-7.4]	7.0 [7.0-7.1]	5.8 [5.6-5.9]	7.5 [↓] [7.4-7.5]	7.9 [7.8-8.0]

[95% confidence intervals in brackets]

The symbols [↑] and [↓] refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Demographic Characteristics of Parents (T41a to T41k)

Table 41a. Urban or rural location among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Urban	87.3 [87.2-87.4]	87.3 [87.1-87.4]	87.2 [87.1-87.4]	87.5↓ [87.3-87.7]	87.0 [86.8-87.2]	87.5↓ [87.3-87.6]
Rural	12.7 [12.6-12.8]	12.7 [12.6-12.9]	12.8 [12.6-12.9]	12.5↑ [12.3-12.7]	13.0 [12.8-13.2]	12.5↑ [12.4-12.7]

Table 41b. Ethnic/racial background among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Black (African, Afro-Caribbean, African descent)	3.5↑ [3.5-3.6]	3.5↑ [3.5-3.6]	3.6 [3.5-3.6]	3.9 [3.8-4.0]	3.6 [3.5-3.6]	3.3 [3.2-3.3]
East/Southeast Asian (e.g., Chinese, Korean, Japanese, Taiwanese, Filipino, Vietnamese, Cambodian, Thai, Indonesian, other Southeast Asian descent)	4.9 [4.9-5.0]	5.5↑ [5.4-5.6]	4.3 [4.2-4.4]	4.3 [4.2-4.5]	4.7 [4.6-4.8]	5.6 [5.5-5.7]
Indigenous (First Nations, Métis, Inuk/Inuit)	1.8 [1.8-1.9]	1.9 [1.8-2.0]	1.7 [1.7-1.8]	1.8 [1.7-1.9]	1.9 [1.9-2.0]	1.7 [1.6-1.8]
Indigenous from another part of the world	0.3 [0.3-0.3]	0.3 [0.3-0.3]	0.3 [0.3-0.3]	0.3 [0.2-0.3]	0.2 [0.2-0.2]	0.4 [0.4-0.4]
Latin American	2.2 [2.1-2.2]	2.3 [2.2-2.3]	2.0 [2.0-2.1]	1.8 [1.8-1.8]	2.5↓ [2.5-2.5]	2.0 [2.0-2.1]

Middle Eastern and North African (Arab, Algerian, Egyptian, West Asian descent (e.g. Iranian, Israeli, Lebanese, Turkish, Kurdish, etc.))	2.8 [2.8-2.8]	3.1 [3.1-3.2]	2.5↓ [2.4-2.5]	2.7 [2.6-2.7]	2.7 [2.7-2.8]	3.0 [3.0-3.1]
South Asian descent (e.g., Afghan, Indian, Pakistani, Bangladeshi, Sri Lankan, etc.)	3.9 [3.9-4.0]	3.7 [3.6-3.8]	4.2 [4.1-4.3]	4.2 [4.1-4.3]	3.4 [3.3-3.5]	4.4 [4.3-4.5]
White European descent	78.6 [78.5-78.7]	77.9 [77.8-78.1]	79.4 [79.2-79.5]	79.3 [79.1-79.5]	79.7 [79.5-79.9]	76.8 [76.6-77.0]
Other	1.9 [1.9-1.9]	1.7 [1.7-1.7]	2.1 [2.1-2.2]	2.3 [2.2-2.3]	1.6 [1.5-1.6]	2.1 [2.0-2.1]

Table 41c. Indigenous identity among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
First Nations (includes status and non status individuals)	37.2 [36.3-38.2]	30.9 [29.9-31.9]	44.5↓ [42.6-46.3]	21.7 [20.5-22.9]	48.4 [46.7-50.1]	34.4 [32.8-36.0]
Métis	50.8 [49.6-52.0]	58.1 [56.5-59.7]	42.4 [40.7-44.2]	68.4 [65.4-71.4]	42.2 [40.6-43.7]	48.7 [46.5-50.9]
Inuk/Inuit	7.3 [5.5-9.2]	6.0* [3.8-8.1]	8.9* [5.9-12.0]	7.4* [3.7-11.1]	7.0* [4.5-9.6]	7.7* [4.2-11.3]

Table 41d. Living on reserve as a primary residence among First Nations parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)
Yes	4.0 [3.5-4.5]
No	96.0 [95.5-96.4]

Table 41e. Living in Inuit Nunangat as a primary residence among Inuit parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)
Yes	91.0 [88.3-93.2]
No	9.0 [6.6-11.4]

Table 41f. Citizenship status among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Canadian citizen by birth	78.1 [78.0-78.3]	77.2 [77.0-77.4]	79.1 [78.9-79.3]	81.4 [81.2-81.5]	78.9 [78.7-79.0]	74.9 [74.6-75.1]
Canadian citizen by naturalization	17.3 [17.1-17.4]	17.9 [17.7-18.1]	16.6 [16.4-16.7]	14.2 [14.1-14.4]	16.8 [16.6-16.9]	20.1 [19.9-20.3]
Permanent resident/landed immigrant	4.3 [4.2-4.3]	4.5† [4.5-4.6]	4.0 [3.9-4.0]	4.1 [4.1-4.2]	4.1 [3.9-4.2]	4.6 [4.5-4.6]
Refugee claimant/asylum seekers	0.1 [0.1-0.1]	#	0.1 [0.1-0.1]	#	#	#
Temporary resident in Canada (e.g., international student, etc.)	0.2 [0.2-0.2]	#	0.2 [0.2-0.3]	#	#	#

Table 41g. Number of years lived in Canada among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022²

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
5 years or less	7.7 [7.5-8.0]	8.1 [7.7-8.5]	7.3 [7.1-7.6]	9.2 [8.8-9.6]	8.3 [7.8-8.8]	6.4 [6.1-6.8]
6-10 years	10.8 [10.6-11.0]	10.8 [10.6-11.0]	10.8 [10.5-11.2]	17.1 [16.5-17.6]	10.5† [10.3-10.8]	7.7 [7.5-8.0]
11-15 years	16.5† [16.4-16.7]	17.1 [17.0-17.3]	15.8 [15.6-16.0]	23.5† [23.2-23.8]	18.0 [17.8-18.2]	11.2 [11.1-11.3]
16 years or more	64.9 [64.5-65.4]	63.9 [63.4-64.5]	66.0 [65.4-66.7]	50.2 [49.4-51.1]	63.2 [62.5-63.8]	74.6 [74.1-75.2]

Table 41h. Education level among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Less than high school	1.0 [1.0-1.1]	1.1 [1.0-1.1]	1.0 [1.0-1.0]	1.2 [1.1-1.2]	0.8 [0.8-0.8]	1.2 [1.2-1.3]
High school/Secondary school/École secondaire diploma or equivalent	6.9 [6.8-6.9]	6.6 [6.6-6.7]	7.2 [7.1-7.2]	6.2 [6.1-6.2]	6.4 [6.3-6.5]	8.0 [7.9-8.1]
Registered apprenticeship or other trade certificate or diploma	4.6 [4.6-4.7]	4.3 [4.2-4.3]	5.0 [4.9-5.1]	4.7 [4.6-4.8]	4.8 [4.8-4.9]	4.3 [4.2-4.4]
College/CEGEP or other non-university certificate or diploma	19.2 [19.2-19.3]	19.5↓ [19.3-19.6]	19.0 [18.9-19.1]	15.4 [15.3-15.5]	20.4 [20.3-20.6]	20.7 [20.5-20.8]
University certificate or diploma below bachelor's level	6.1 [6.1-6.2]	6.4 [6.3-6.4]	5.9 [5.9-6.0]	4.5↓ [4.4-4.6]	6.9 [6.8-6.9]	6.5↑ [6.5-6.6]
University – bachelor's degree	32.1 [32.1-32.2]	32.1 [32.0-32.2]	32.2 [32.1-32.3]	34.5↓ [34.3-34.7]	31.7 [31.6-31.8]	30.9 [30.8-31.0]
University – post-graduate degree above bachelor's level	29.7 [29.6-29.8]	29.9 [29.8-30.1]	29.5↓ [29.4-29.6]	33.3 [33.1-33.5]	28.8 [28.7-28.9]	28.2 [28.0-28.3]
Other	0.2 [0.2-0.2]	0.3 [0.2-0.3]	0.2 [0.2-0.2]	0.4 [0.3-0.4]	0.2 [0.1-0.2]	0.2 [0.2-0.2]

Table 41i. Employment status among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Working full-time (35 or more hours per week)	71.9 [71.8-72.0]	72.4 [72.2-72.5]	71.5↓ [71.3-71.6]	70.9 [70.8-71.1]	72.9 [72.8-73.1]	71.5↓ [71.4-71.6]
Working part-time (less than 35 hours per week)	7.7 [7.6-7.7]	7.3 [7.2-7.3]	8.1 [8.0-8.2]	8.2 [8.0-8.3]	7.9 [7.9-8.0]	7.0 [6.9-7.0]
Self-employed	9.9 [9.8-9.9]	9.8 [9.7-9.9]	9.9 [9.9-10.0]	8.3 [8.2-8.3]	9.6 [9.6-9.7]	11.3 [11.2-11.4]
Unemployed, but looking for work	1.3 [1.3-1.3]	1.1 [1.1-1.1]	1.4 [1.4-1.5]	1.4 [1.4-1.5]	1.3 [1.3-1.3]	1.2 [1.2-1.2]
A student attending school full-time or part-time	1.1 [1.1-1.1]	1.1 [1.1-1.1]	1.1 [1.1-1.1]	1.4 [1.4-1.5]	1.2 [1.2-1.2]	0.7 [0.7-0.7]
Retired	1.4 [1.4-1.4]	1.3 [1.3-1.4]	1.4 [1.4-1.5]	0.3 [0.3-0.3]	0.8 [0.8-0.8]	2.8 [2.8-2.9]
Not in the workforce (full-time homemaker, unemployed, not looking for work)	4.8 [4.8-4.9]	4.8 [4.8-4.9]	4.8 [4.8-4.9]	6.3 [6.2-6.4]	5.0 [4.9-5.0]	3.6 [3.5-3.6]
Other	2.0 [1.9-2.0]	2.2 [2.2-2.3]	1.7 [1.7-1.7]	3.2 [3.1-3.3]	1.2 [1.2-1.2]	1.9 [1.9-1.9]

Table 41j. Employment/volunteer sector among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022¹

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Health care or laboratory worker	14.4 [14.4-14.5]	14.6 [14.5-14.7]	14.2 [14.1-14.3]	16.1 [16.0-16.2]	13.9 [13.8-13.9]	13.8 [13.7-13.9]

Child care or schools	14.4 [14.3-14.5]	14.5↑ [14.4-14.6]	14.3 [14.2-14.4]	13.4 [13.2-13.5]	14.8 [14.7-14.9]	14.7 [14.6-14.8]
Exposed to animals or their materials	1.3 [1.3-1.4]	1.5↑ [1.5-1.5]	1.1 [1.1-1.2]	1.2 [1.1-1.2]	1.0 [1.0-1.0]	1.8 [1.8-1.8]
Emergency services worker	2.8 [2.8-2.8]	2.8 [2.8-2.9]	2.8 [2.7-2.8]	3.2 [3.1-3.3]	2.6 [2.6-2.7]	2.7 [2.7-2.8]
Other	8.8 [8.8-8.9]	8.8 [8.7-8.9]	8.9 [8.8-9.0]	8.7 [8.6-8.8]	8.4 [8.3-8.4]	9.5↓ [9.4-9.6]
I don't work in any of the above sectors (exclusive)	58.2 [58.1-58.3]	58.0 [57.8-58.1]	58.5↑ [58.3-58.7]	58.3 [58.1-58.5]	59.4 [59.3-59.6]	56.8 [56.6-57.0]

Table 41k. Household income among parents vaccinated with at least one dose of a COVID-19 vaccine, by child's sex and age group, Canada, 2022

	Overall (%)	Parents of males (%)	Parents of females (%)	Parents of 0-4 years (%)	Parents of 5-11 years (%)	Parents of 12-17 years (%)
Under \$20,000	1.8 [1.8-1.8]	2.0 [1.9-2.0]	1.6 [1.6-1.7]	1.7 [1.7-1.7]	1.8 [1.8-1.8]	1.9 [1.9-1.9]
\$20,000 to \$39,999	4.6 [4.6-4.7]	4.5↑ [4.5-4.6]	4.8 [4.7-4.8]	4.7 [4.6-4.8]	4.8 [4.7-4.9]	4.3 [4.3-4.4]
\$40,000 to \$59,999	7.2 [7.1-7.3]	7.4 [7.3-7.5]	7.0 [6.9-7.1]	6.4 [6.2-6.6]	7.3 [7.2-7.4]	7.8 [7.7-7.9]
\$60,000 to \$79,999	8.4 [8.3-8.5]	8.2 [8.1-8.3]	8.6 [8.5-8.7]	8.2 [8.1-8.3]	8.8 [8.7-8.9]	8.1 [8.0-8.2]
\$80,000 to \$99,999	11.8 [11.8-11.9]	11.6 [11.5-11.7]	12.1 [12.0-12.2]	10.8 [10.6-10.9]	11.9 [11.8-12.0]	12.6 [12.5-12.8]
\$100,000 to \$149,999	26.8 [26.8-26.9]	26.5↓ [26.4-26.6]	27.2 [27.1-27.3]	28.5↑ [28.4-28.7]	26.2 [26.0-26.3]	26.3 [26.2-26.4]
\$150,000 and above	39.3 [39.1-39.5]	39.8 [39.5-40.1]	38.8 [38.5-39.0]	39.6 [39.1-40.1]	39.3 [39.0-39.6]	38.9 [38.7-39.2]

¹ Multiple response options could be selected by respondents.

² Among those respondents that were not Canadian citizen by birth.

The symbols ↑ and ↓ refer to the direction of rounding to integers.

* Moderate sampling variability, interpret with caution.

High sampling variability or small sample size - although an estimate may be determined from the table, data should be suppressed.

Data is weighted by child's sex, age group and province of residence.

Estimates may not sum to 100% due to rounding.

Source: Childhood COVID-19 Immunization Coverage Survey, 2022.