



**INTRODUCTION**

Vaccination of healthcare workers (HCWs) is a crucial issue for the protection of patients and the preservation of health systems, yet many remain not fully vaccinated.

**AIMS :**

- This study aims to: 1) determine the prevalence and determinants of vaccine hesitancy among HCWs in Canada; and 2) determine the primary motivators for vaccination in this population.

**METHODS:**

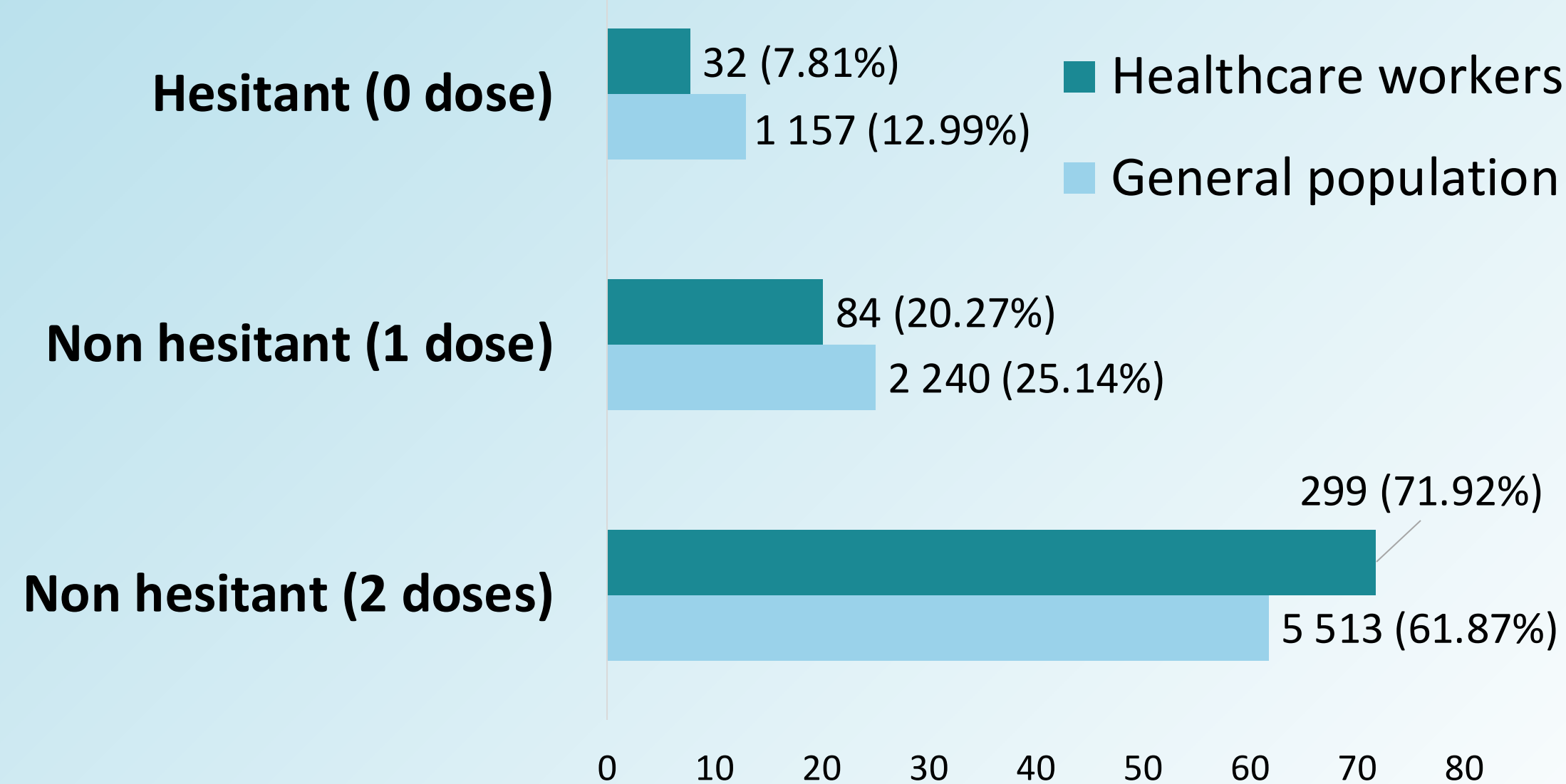
- Three cross-sectional age, sex and province-weighted population-based samples each including 3,005 Canadians aged 18+ years completed the iCARE survey using an online polling firm.
- May 31 - June 14, 2021 (time 1), Sep 10 - 20, 2021 (time 2) and Nov 15 – Dec 03<sup>rd</sup>, 2021 (time 3).
- Participants self-reported HCW and vaccine status and were dichotomized into vaccine hesitant (not vaccinated) or non hesitant (partially or fully vaccinated).

**HCW CHARACTERISTICS:**

Variables		Hesitant n(%) (n=32)	Non hesitant n(%) (n=374)
Sex	Man	10 (30,57)	130 (35,27)
	Women	23 (69,43)	239 (64,73)
Age (p=0,001)	18 – 44 years old	24 (73,7)*	241(64,23)*
	45 years old and more	9 (26,3)	133(35,78)
Average income	< \$59,999/year	16 (56,62)	223 (63,18)
	> \$60,000/year	12 (43,38)	130 (36,82)
Education	College degree or less	21 (64,91)	199(53,1)
	University degree	12 (35,09)	175(46,89)
Category of HCWs	Doctors	0(0)	8 (2,13)
	Nurses	9 (26,69)	74 (20,05)
	Others	24 (71,91)	287 (77,81)
Influenza vaccine (p=0,008)	At least 1 time	10 (47,72)	102 (77,01)
	Never	11 (52,28)*	31 (22,99)*
Chronic disease	No	25 (77,09)	250 (66,74)
	Yes	7 (22,91)	125 (33,26)

**RESULTS:**

**Vaccine status among HCWs (n=415) and the general population (n=8910)**



Of the 9011 participants, 580 (6.4%) were HCWs (171-220 across 3 surveys). Almost 8% of HCWs were vaccine hesitant, compared to 13% in the general population.

**RESULTS:**

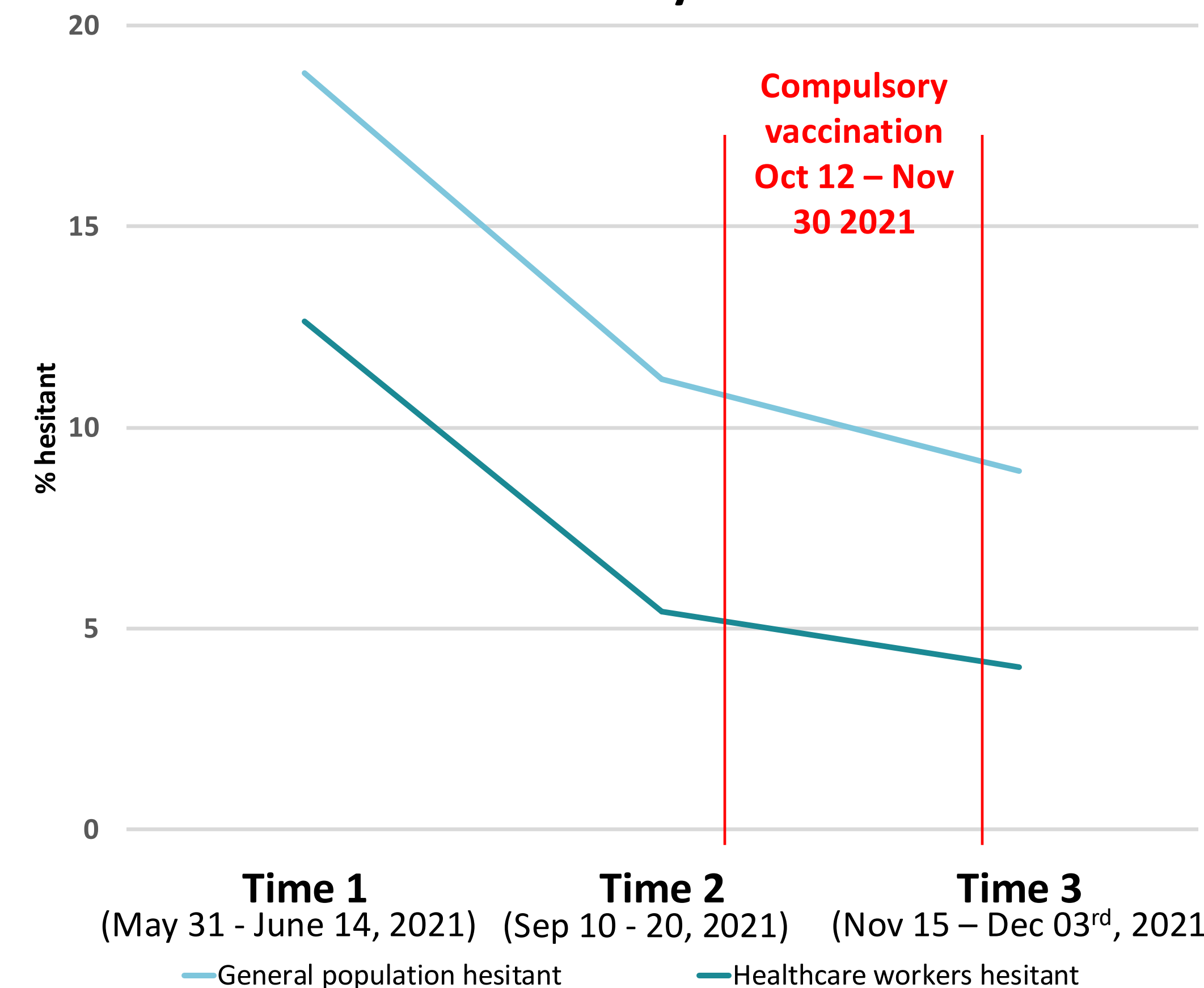
**Multivariable analysis examining predictors of vaccine hesitancy among HCWs**

Variables	Reference	OR	95% CI
Sex: Women	Man	1,524	0,353 6,585
Education: College degree or less	University degree	1,569	0,522 4,712
Average income: < \$59,999/year	> \$60,000/year	1,556	0,471 5,136
<b>Time 2</b>	<b>Time 1</b>	<b>0,288*</b>	<b>0,098 0,849</b>
Time 3	Time 1	0,322	0,098 1,057
Chronic disease : No	Yes	1,886	0,715 4,98

HCWs were less likely to show vaccine hesitancy at time 2 (Sep 10 - 20, 2021) and 3 (Nov 15 – Dec 03<sup>rd</sup>, 2021) than time 1 (May 31 - June 14, 2021).

**RESULTS:**

**Vaccine hesitancy over time**



**RESULTS:**

**Motivators of COVID-19 vaccine hesitancy**



Hesitant HCWs reported that: 1) having information that the vaccine is safe (55%) and 2) effective (42%) and 3) trusting the company who developed the vaccine (40%) would be most likely to motivate them to get vaccinated.

**CONCLUSION:**

- HCWs who are younger and had never been vaccinated against influenza are more likely to be vaccine hesitant.
- Motives to get vaccinated were related to being reassured about vaccine safety and efficacy.
- Results could be used to inform targeted intervention strategies in this important population.

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