COVID-19 vaccine updates

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COVID-19 Boosters: BC guidelines (as of 24th October)

Fall 2022 Booster Dose [C, D, E]	
Eligibility Criteria	**Number of Doses**
Individuals 5-11 years of age	1 dose – at least 6 months after the primary series: • Pfizer (monovalent): 0.2 mL (10 mcg)
Individuals 12-17 years of age [F]	1 dose – at least 6 months after the primary series or a previous booster dose: • Pfizer Bivalent: 0.3 mL (30 mcg) • Moderna Bivalent: 0.5 mL (50 mcg) – *recommended and preferred only for those who are moderately to severely immunosuppressed (see Appendix A)*
Individuals 18 years of age and older [F]	1 dose – at least 6 months after the primary series or a previous booster dose: • Pfizer Bivalent: 0.3 mL (30 mcg) • Moderna Bivalent: 0.5 mL (50 mcg) - *preferred for those who are moderately to severely immunosuppressed (see Appendix A)*

http://www.bccdc.ca/resource-gallery/Documents/Guidelines%20and%20Forms/Guidelines%20and%20Manuals/Epid/CD%20Manual/Chapter%202%20-%20Imms/Part4/COVID-19-vaccine-eligibility.pdf

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COVID-19 Boosters: BC guidelines (published 7th October)

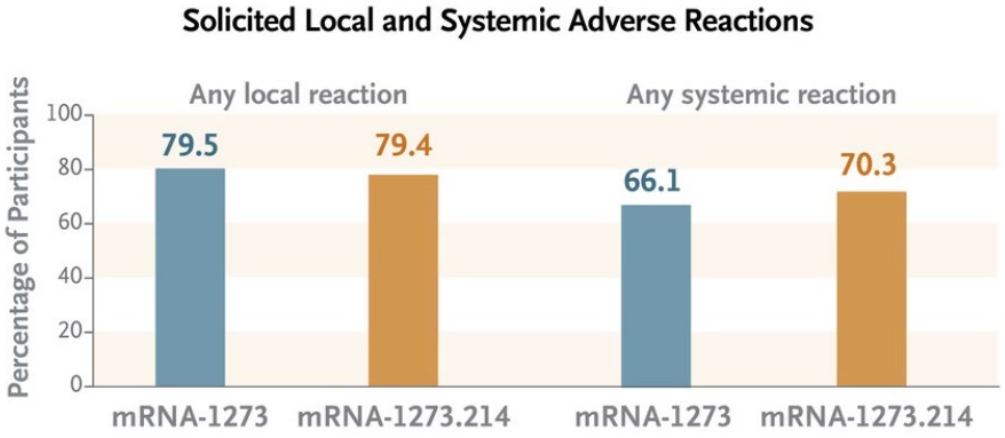
1. **NACI strongly recommends that all individuals ≥65 years of age and also individuals ≥12 years of age* who are at increased risk of severe illness from COVID-19** should be offered a fall COVID-19 vaccine booster dose regardless of the number of booster doses previously received. (Strong NACI recommendation)**
2. **NACI recommends that all other individuals 12 to 64 years of age may be offered a fall COVID-19 vaccine booster dose regardless of the number of booster doses previously received. (Discretionary NACI recommendation)**
3. **NACI recommends that bivalent Omicron-containing mRNA COVID-19 vaccines are the preferred booster products for the authorized age groups. (Strong NACI recommendation)**

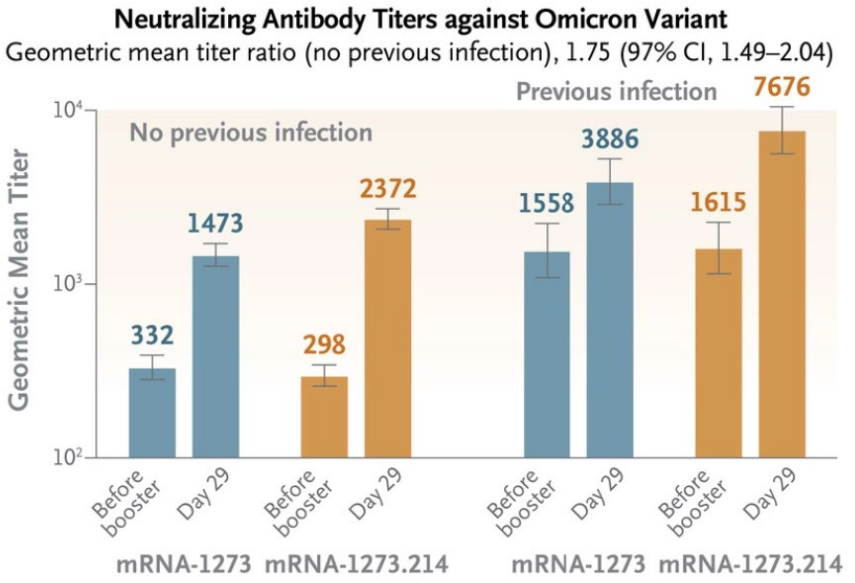
- Moderna Spikevax bivalent BA.1 (50 mcg)
- Pfizer-BioNTech Comirnaty bivalent BA.4/5 (30 mcg)

https://www.canada.ca/en/public-health/services/immunization/national-advisory-committee-on-immunization-naci/guidance-covid-19-vaccine-booster-doses.html#a5

Moderna Spikevax BA.1 (50 mcg)

- 25 mcg ancestral strain SARS-CoV-2 + 25 mcg Omicron BA.1
- Phase 2-3 trial
  - N=819
  - Primary series: 2 doses of Moderna Spikevax
  - Booster with 50 mcg bivalent *vs.* ancestral strain ≥3 months after dose 2





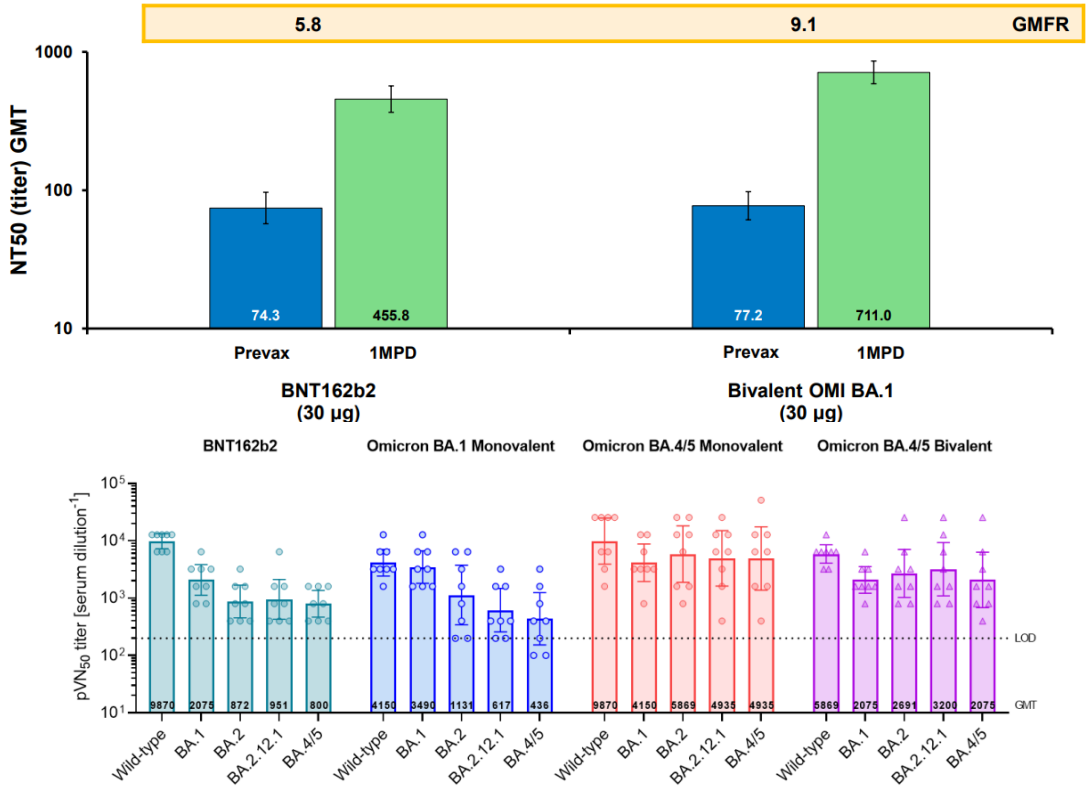
Chalkias et al. NEJM 2022

Pfizer Comirnaty BA.4/5 (30 mcg)

- 15 mcg ancestral strain SARS-CoV-2 + 15 mcg Omicron BA.4/5
- No clinical data for BA.4/5
  - Clinical data for BA.1 + preclinical data for BA.4/5

	C4591031 Substudy E[a] (>55y)	
	BNT162b2 30 µg Dose 4 (N=298)	Bivalent OMI BA.1 30 µg Dose 4 (N=301)
Local reaction at injection site		
Pain	60.1%	58.1%
Swelling	6.0%	6.6%
Redness	6.4%	7.0%
Systemic events		
Fatigue	45.3%	49.2%
Headache	26.5%	33.6%
Muscle pain	19.8%	22.3%
Chills	16.4%	13.0%
Joint pain	9.1%	11.3%
Fever (≥38.0°C)	3.7%	5.0%
Vomiting	1.3%	1.7%
Diarrhea	4.4%	9.0%

a. BNT162b2-experienced participants (>55 years of age) who received BNT162b2 30 µg or BNT162b2 + BNT162b2 OMI BA.1 30 µg as a booster dose (Dose 4) approximately 5 to 12 months after their last dose (Dose 3).



https://www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-09-01/07-covid-swanson-508.pdf