

How Well Do The COVID-19 & Influenza Vaccines Work?

- TARRANT sentinels have helped determine how well the influenza vaccine works for several years.



New this year

- we also want to know how well the various COVID-19 vaccines work
 - **You can participate in this Vaccine Effectiveness (VE) Study.**
- VE is higher when the vaccine components are well-matched to the circulating strains of COVID-19 and influenza.
- **Test-negative case control** design.
 - Cases=test positive for COVID-19/ influenza
 - Controls= test negative
- **Inclusion criteria:**
 - Influenza VE: *acute onset of respiratory illness with fever AND cough AND with one or more of the following: sore throat, arthralgia, myalgia, or prostration (extreme fatigue).*
 - COVID-19: *Acute onset of respiratory illness with cough.*
 - Symptom onset within 7 days of presentation.
- **Exclusion criteria:**
 - Unknown vaccination status/ vaccination less than two weeks before symptom onset..

Wide Variation in Influenza Vaccine Effectiveness Study Results, 2008-2020

Year (Season)	Overall age-adjusted vaccine effectiveness	
	%	95% CI
2008-2009	56	(41,67)
2009-2010	93	(69,98)
2010-2011	37	(17,52)
2011-2012	59	(43,70)
2012-2013	50	(33, 63)
2013-2014	68	(58, 76)
2014-2015	9	(-14,27)
2015-2016	46	(32,57)
2016-2017	45	(31,56)
2017-2018	38	(27,47)
2018-2019	61	(53,69)
2019-2020	58	(47,66)
2020-2021	Not done*	Not done*

*No cases of human Influenza were detected in Alberta