

Effect of activating Panorama records for clients who primarily receive immunizations from First Nations Health Services Organizations on 7-year old immunization coverage rates

Historically, British Columbia health regions using the iPHIS immunization registry inactivated the records of clients receiving the majority of their immunizations from First Nations Health Services Organizations (FNHSOs) that did not use the provincial immunization registry (iPHIS). The reason for inactivation was because the iPHIS records were likely incomplete as their immunizations were recorded in other systems. Inactivated records were excluded from coverage analyses. Between June 2015 and January 2016, the Panorama records of children born in 2007-2013 that had been inactivated because they received the majority of their immunizations from FNHSOs were reactivated. These records were activated to facilitate the use of the new provincial immunization registry (Panorama) by the FNHSOs that have adopted Panorama.

Jurisdiction	Effect on % Up-to-date for age			
	2015	2016	2017	2018
British Columbia	0.1%		0.0%	0.1%
Interior Health Authority	0.3%		-0.5%	-0.2%
<i>East Kootenay</i>	0.1%		-0.2%	0.0%
<i>Kootenay Boundary</i>	0.0%		0.0%	0.0%
<i>Okanagan</i>	0.0%		-0.3%	-0.1%
<i>Thompson Cariboo Shuswap</i>	0.9%		-1.1%	-0.5%
Fraser Health Authority	0.0%		0.0%	0.0%
<i>Fraser East</i>	0.1%		0.0%	0.0%
<i>Fraser North</i>	0.0%		0.0%	0.0%
<i>Fraser South</i>	0.0%		0.0%	0.0%
Vancouver Island Health Authority	0.2%		0.4%	0.5%
<i>South Vancouver Island</i>	0.2%		0.0%	0.2%
<i>Central Vancouver Island</i>	0.4%		1.0%	1.1%
<i>North Vancouver Island</i>	0.0%		0.1%	0.0%
Northern Health Authority	1.3%		0.8%	1.5%
<i>Northwest</i>	1.2%		0.7%	2.1%
<i>Northern Interior</i>	1.6%		0.2%	1.0%
<i>Northeast</i>	0.7%		0.3%	0.7%

The overall effect of activating the Panorama records was an increase of 0.1% in the provincial immunization coverage estimate for children up-to-date for age in 2018 (2010 birth cohort). This ranged from a decrease of 0.2% to an increase of 1.5% at the Health Authority level and a decrease of 0.5% to an increase of 2.1% at the Health Service Delivery Area level. In the Fraser, Vancouver Island and Northern Health Authorities, the denominators used for the coverage calculations (based on school enrolment) remained the same. As such, any change in the proportion up-to-date for age reflects the fact that additional children were being counted in the numerator. Panorama data were used for both the numerators and denominators for the Interior Health Authority. In this region, the inclusion of the records that had previously been inactivated resulted in small declines in coverage, likely due to the inclusion of children with incomplete Panorama records.

British Columbia immunization coverage reports and definitions are available at: <http://www.bccdc.ca/health-info/immunization-vaccines/immunization-coverage>.