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# Immunization coverage in two-year-old First Nations children on reserve, 2011- 2016

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# Background – Service delivery in First Nations communities

- Indigenous Services Canada (ISC) supports health services in First Nations communities
  - Nursing stations/Health centres with treatment – in remote and isolated communities where there is no access to provincial services
  - Health centres – provide non-urgent primary care services, as well as public health programs
- Mandatory health protection programs are required in all communities, which includes immunization

# Background – Indigenous Services Canada's Immunization Program



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## **Goals:**

- Meet national immunization coverage targets
- Prevent or reduce vaccine preventable disease (VPD) incidence

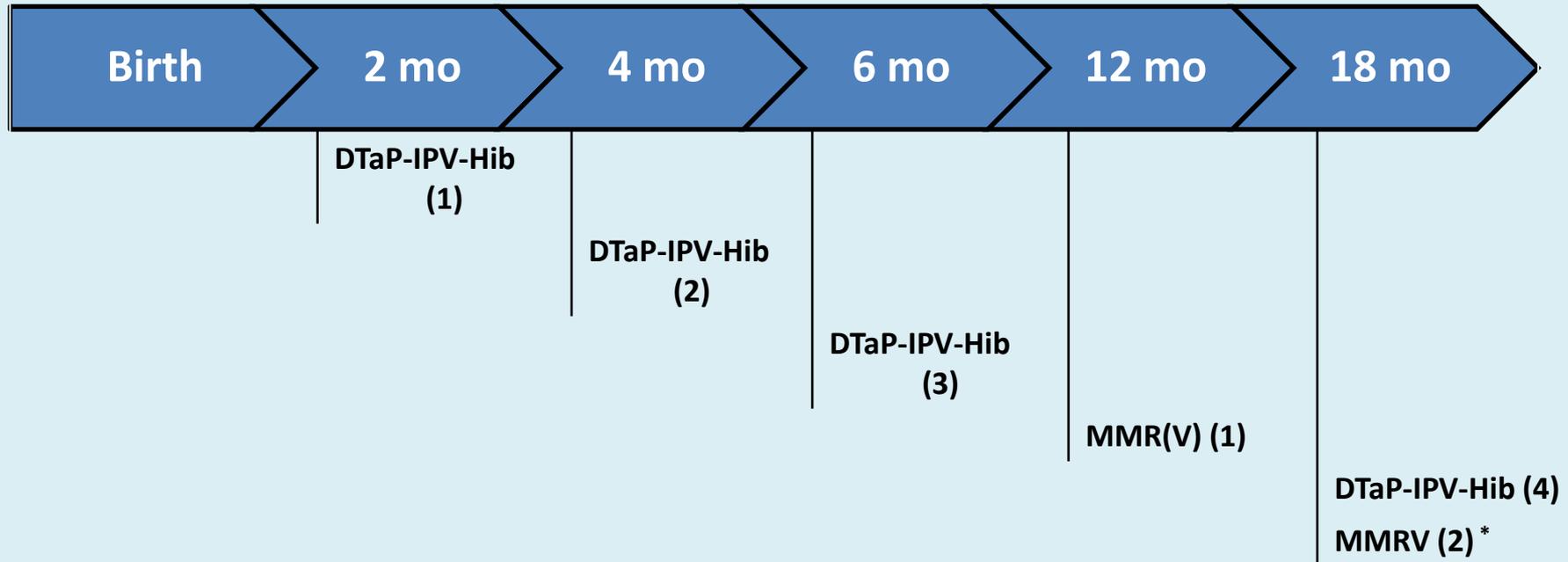
## **Activities:**

- Administration of vaccines
- Vaccine management
- Monitoring vaccine coverage and occurrence of VPDs
- Immunization education and awareness

# Monitoring immunization coverage for First Nations on reserve

- Similar to the general Canadian population, there is no national immunization registry for First Nations on reserve
- To monitor immunization coverage among First Nations on reserve, ISC uses immunization coverage data collected from regional offices for program reporting purposes

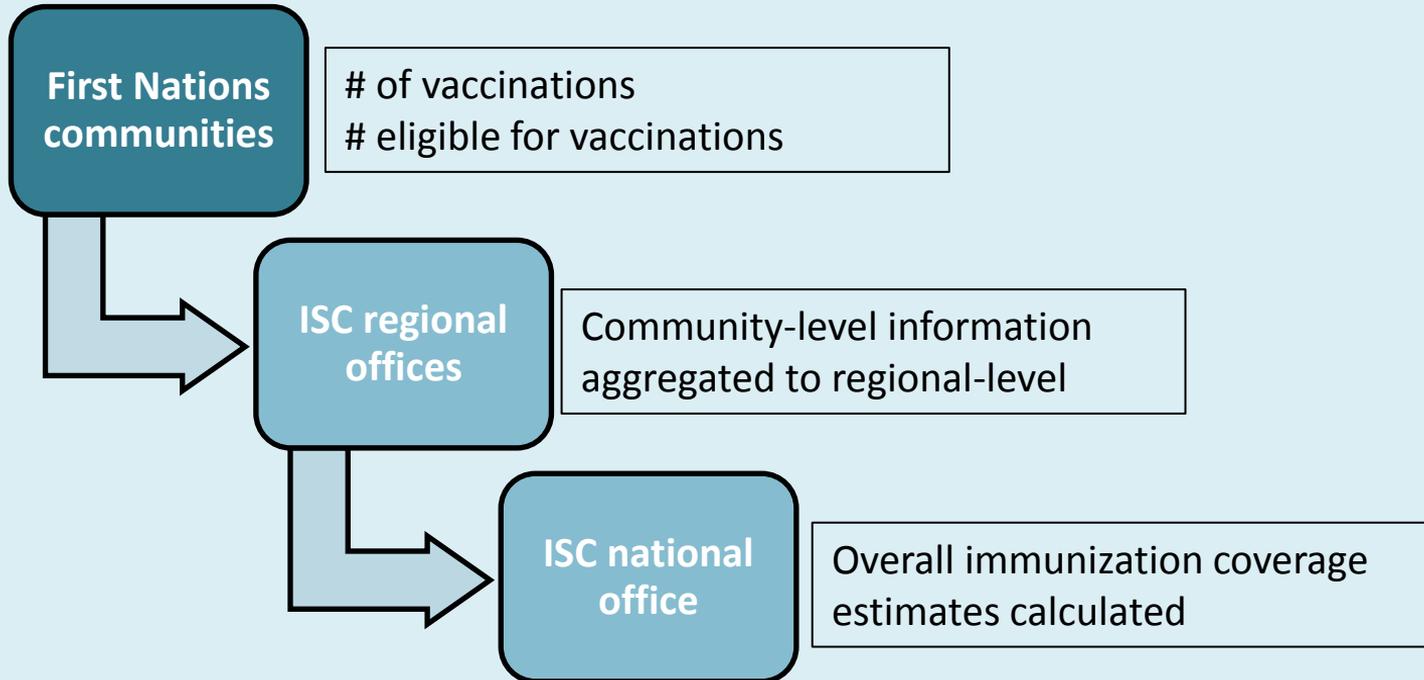
# Up-to-date schedule for MMR and DTaP-IPV-Hib for 2 year olds, 2016



\* Required doses can be 1 or 2 doses by 2 years of age depending on the province

# Activities – Data collection

**\*\*Definition of up-to-date immunization\*\*** Receipt of full number of required vaccine doses by the 1<sup>st</sup>, 2<sup>nd</sup>, 7<sup>th</sup> or 17<sup>th</sup> birthday according to provincial schedule



# Activities – Calculating up-to-date immunization coverage, 2011 to 2016

**Up-to-date coverage for DTaP-IPV-Hib and MMR for two year old First Nations children on reserve for years 2011-2016 =**

**# of 2 year old children on reserve vaccinated for MMR or DTaP-IPV-Hib  
in all reporting regions**

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**Total # of 2 year old children on reserve eligible for routine vaccination  
with MMR or DTaP-IPV-Hib in all reporting regions**

**X 100**

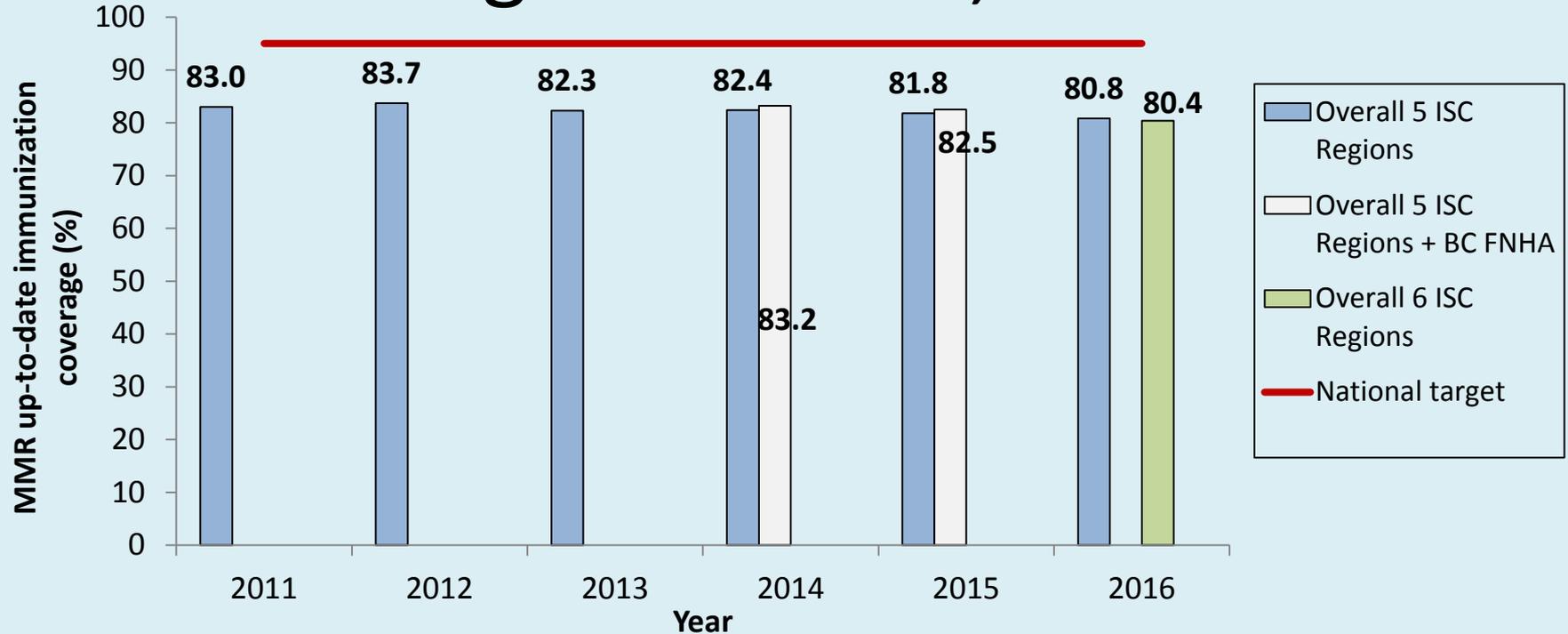
# Findings – MMR 2 yr immunization coverage data completeness, 2011-16

Year	# of ISC Regions reporting	% of communities represented
2011	5	97*
2012	5	
2013	5	
2014	5 + BC FNHA	
2015	5 + BC FNHA	
2016	6	77.5

BC FNHA = The British Columbia First Nations Health Authority

\* Proportion only for 5 reporting ISC regions

# Findings – MMR 2 yr immunization coverage estimates, 2011-16



\*\*Percentages may be an underestimation, as vaccines given off reserve through other non-ISC primary care and public health providers may not be captured\*\*

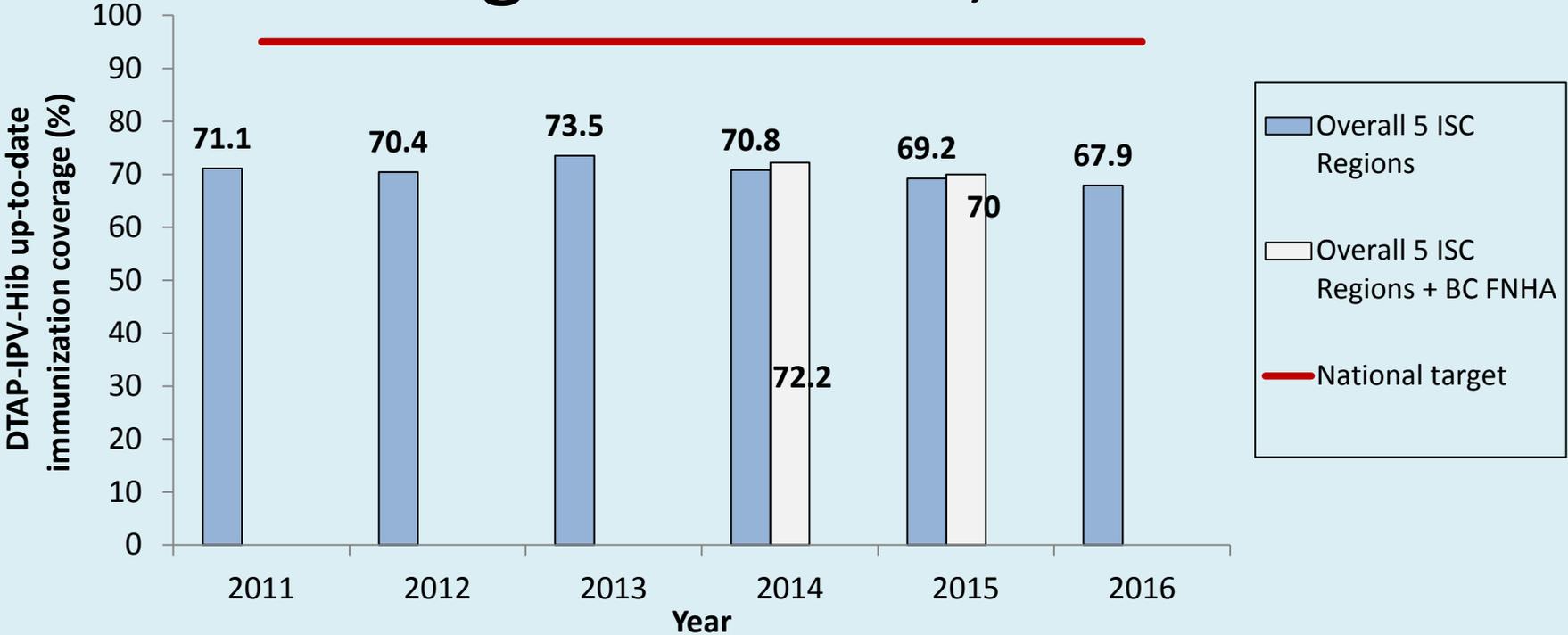
# Findings – DTaP-IPV-Hib 2 yr immunization coverage data completeness, 2011-16

Year	# of ISC Regions reporting	% of communities represented
2011	5	97*
2012	5	
2013	5	
2014	5 + BC FNHA	
2015	5 + BC FNHA	
2016	5	95.5

BC FNHA = The British Columbia First Nations Health Authority

\* Proportion only for 5 reporting ISC regions

# Findings – DTaP-IPV-Hib 2 yr immunization coverage estimates, 2011-16



\*\*Percentages may be an underestimation, as vaccines given off reserve through other non-ISC primary care and public health providers may not be captured\*\*

# Summary – Successes

- Up-to-date 2 year old immunization coverage estimates for MMR and DTaP-IPV-Hib have been consistent across 2011 to 2016
- In most recent years, additional regions have made their MMR and/or DTaP-IPV-Hib immunization coverage data available to ISC
- Ability to report on national immunization coverage for First Nations on reserve
- As the only source of national data, these data are important for monitoring immunization uptake and program outcomes, and achieving national immunization coverage goals

# Next steps – Building on successes

- ISC continuously focused on improving immunization awareness by developing resources in collaboration with national Indigenous partners
  - *Don't Wait, Vaccinate!* educational products
  - *Share a moment, not the flu* educational products
  - *Vaccination coverage in First Nations communities* info-sheet
- Continued collaboration with colleagues at the Public Health Agency of Canada, and First Nations partners, including, increasing interoperability of registries and assessment of coverage for Indigenous peoples

# Acknowledgements

- First Nations community health staff
- Indigenous Services Canada's regional and national programs and surveillance staff
- Provincial and national Indigenous partners