

ENHANCED 18 MONTH WELL-BABY VISITS

Enhanced 18 month well-baby visits:

Percentage of the annual number of visits to family physicians or paediatricians for services identified as fee-for-service Ontario Health Insurance Plan (OHIP) claims for Enhanced 18 Month Well-Baby Visits (EWBV) among the population of children aged 12 to 24 months with a valid health card during the corresponding calendar year.

Children seen at a community health centre (CHC) are excluded from this measure as CHC physicians do not submit billing claims to OHIP. CHCs in the Health Unit region include the West Nipissing Community Health Centre and the North Bay Nurse Practitioner Led-Clinic.

Data sources:

Enhanced 18 month well-baby visits:

Ontario Medical Services Data [2011-2015], Ontario Ministry of Health and Long-Term Care, IntelliHEALTH Ontario, Date extracted: [April 19, 2018].

Population estimates:

Ontario Registered Persons Database [2011-2015], Ontario Ministry of Health and Long-Term Care, IntelliHEALTH ONTARIO, Date extracted: [April 19, 2018].

Confidence intervals:

Confidence intervals (CI) and variances were estimated using the poisson distribution in STATA IC/14.2 (2014) for all regions.

Interpretation of a significant difference:

A statistic interpreted as 'significantly different' from another is an estimate found to be statistically meaningful; the difference is unlikely due to chance. Error ranges noted in tables within this report illustrate 95% confidence intervals. If there is no overlap in range between confidence intervals, the difference can be described as statistically significant.

Overall Trends

In 2015, about one of every two children aged 12 to 24 months in the Health Unit region attended an enhanced 18 month well-baby visit. This rate is comparable to Ontario children and significantly higher compared to the North East LHIN region where one of every three children attended an enhanced 18 month well-baby visit. Percentages of children aged 12 to 24 months who have attended an enhanced 18 month well-baby visit have increased significantly in all three regions. See Appendix A for the number of children who attended an enhanced 18 month well-baby visit and the number of children with a valid health card in the corresponding year, within the Health Unit region.

Figure 1. Percentage of Enhanced 18 Month Well-Baby Visits Among Children Aged 12 to 24 months, by Year & Health Region, 2011-2015

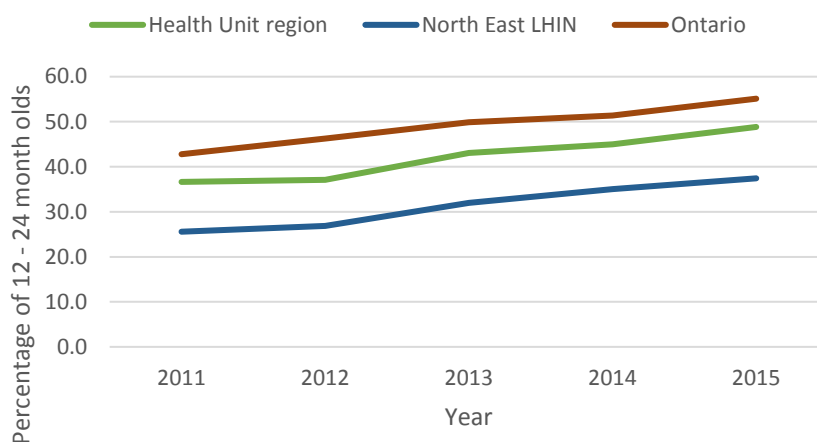


Table 1. Percentage of Enhanced 18 Month Well-Baby Visits Among Children Aged 12 to 24 months, by Year & Health Region, 2011-2015

Year	Health Unit region	North East LHIN region	Ontario
2011	36.6* (33.4, 40.1)	25.6* (24.3, 26.9)	42.8 (42.5, 43.1)
2012	37.1* (33.8, 40.6)	26.9* (25.5, 28.2)	46.3 (45.9, 46.6)
2013	43.1* (39.5, 46.9)	32.0* (30.5, 33.5)	49.8 (49.5, 50.2)
2014	45.0* (41.2, 49.1)	35.1* (33.5, 36.6)	51.4 (51.1, 51.8)
2015	48.8* (45.0, 52.9)	37.4* (35.9, 39.0)	55.1 (54.7, 55.5)

* The percentage is significantly different than the Ontario percentage during the corresponding calendar year

By Geography

The percentages for the West & North Nipissing Region do not include children serviced by the West Nipissing Community Health Centre, likely producing an underestimate of the percentage of children aged 12 to 24 months who were seen at an enhanced 18 month well-baby visit within that region. Please interpret percentages and trends for that region with caution.

In 2015, between four and five children in East Nipissing and North East Parry Sound attended enhanced 18 month well-baby visits, significantly lower compared to between five and six children in Ontario. The percentage of enhanced 18 month well-baby visits among children aged 12 to 24 months increased across all regions between 2011 and 2015, with the exception of the West & North Nipissing region where the percentage appears stable (Figure 1 & Table 1). See Appendix B for the number of children who attended an enhanced 18 month well-baby visit and the number of children with a valid health card in the corresponding year, by geography in the Health Unit region.

Figure 2. Percentage of Enhanced 18 Month Well-Baby Visits Among Children Aged 12 to 24 months, by Year & Health Regions Below the Health Unit Level, North East LHIN region, and Ontario, 2011-2015

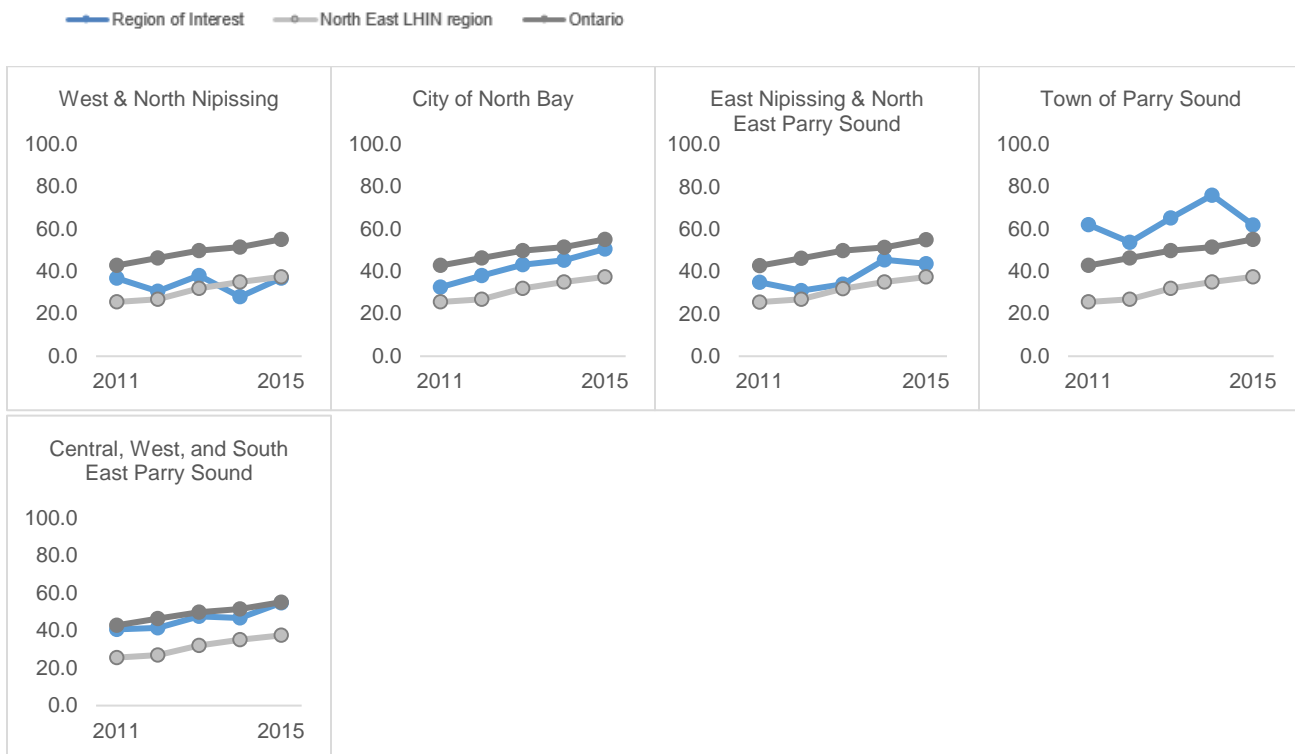


Table 2. Percentage of Enhanced 18 Month Well-Baby Visits Among Children Aged 12 to 24 months, by Year & Health Regions Below the Health Unit Level, North East LHIN region, and Ontario, 2011-2015

Year	City of North Bay	City of Parry Sound ¹	West & North Nipissing ²	East Nipissing & North East Parry Sound ³	Central, West, and South East Parry Sound ⁴	North East LHIN region	Ontario
2011	32.6* (28.1, 37.6)	62.0* (45.0, 83.2)	36.9 (28.5, 46.9)	34.9 (27.8, 43.2)	40.6 (32.7, 49.9)	25.6* (24.3, 26.9)	42.8 (42.5, 43.1)
2012	38.0* (33.0, 43.6)	53.7 (37.6, 74.4)	30.6* (23.4, 39.4)	31.0* (24.0, 39.4)	41.3 (33.4, 50.6)	26.9* (25.5, 28.2)	46.3 (45.9, 46.6)

Year	City of North Bay	City of Parry Sound ¹	West & North Nipissing ²	East Nipissing & North East Parry Sound ³	Central, West, and South East Parry Sound ⁴	North East LHIN region	Ontario
2013	43.2* (37.8, 49.1)	65.1 (49.2, 84.6)	38.1* (29.5, 48.3)	33.9* (26.7, 42.6)	47.6 (38.6, 58.0)	32.0* (30.5, 33.5)	49.8 (49.5, 50.2)
2014	45.2 (39.5, 51.5)	75.9* (58.0, 97.8)	28.0* (20.7, 37.0)	45.6 (36.8, 55.8)	46.7 (37.6, 57.3)	35.1* (33.5, 36.6)	51.4 (51.1, 51.8)
2015	50.6 (44.7, 57.0)	61.9 (46.2, 81.2)	36.8* (28.3, 47.1)	43.7* (35.4, 53.3)	54.7 (45.0, 66.0)	37.4* (35.9, 39)	55.1 (54.7, 55.5)

* The percentage is significantly different than the Ontario percentage during the corresponding calendar year

¹The City of Parry Sound includes regions whose postal codes are not linked to other municipalities, and excludes outlying regions with links to nearby municipalities (e.g., Seguin).

²West & North Nipissing includes the Municipality of West Nipissing, Nipissing 10 First Nations reserve, and the Unorganized North Part of the Nipissing region.

³The East Nipissing & North East Parry Sound region includes Bonfield, Callander, Powassan, Nipissing, East Ferris, Calvin, Mattawa, Mattawan, Papineau-Cameron, Chisholm, Unorganized South Part of Nipissing, and the Unorganized North East Part of Parry Sound.

⁴The Central, West, and South East Parry Sound region includes outlying areas of the Town of Parry Sound, The Archipelago, Henvey Inlet 2 First Nations reserve, Magnetawan 1 First Nations reserve, French River 13 First Nations reserve, Seguin, McDougall, Shawanaga 17 First Nations reserve, McKellar, Carling, Machar, Whitestone, Magnetawan, Joly, Sundridge, Strong, South River, Kearney, Perry, Ryerson, Burk's Falls, McMurrich/Monteith, Armour, and the Unorganized Centre Part of Parry Sound.

Trends by Sex

Between 2011 and 2014, the percentage of 12 to 24 month olds in the Health Unit region who attended well-baby visits has generally been lower compared to children in the same age group in Ontario, regardless of their sex (Figure 2 & Table 2). In 2015, between four to five male children aged between 12 and 24 months in the Health Unit region attended an enhanced 18 month well-baby visit, significantly lower compared to between five to six male children in Ontario. This difference between regions among boys does not exist for years prior to 2015 (i.e., 2011 – 2014), and may not signify a trend.

Figure 3. Percentage of Enhanced 18 Month Well-Baby Visits Among Children Aged 12 to 24 months, by Sex, Year & Health Region, 2011-2015

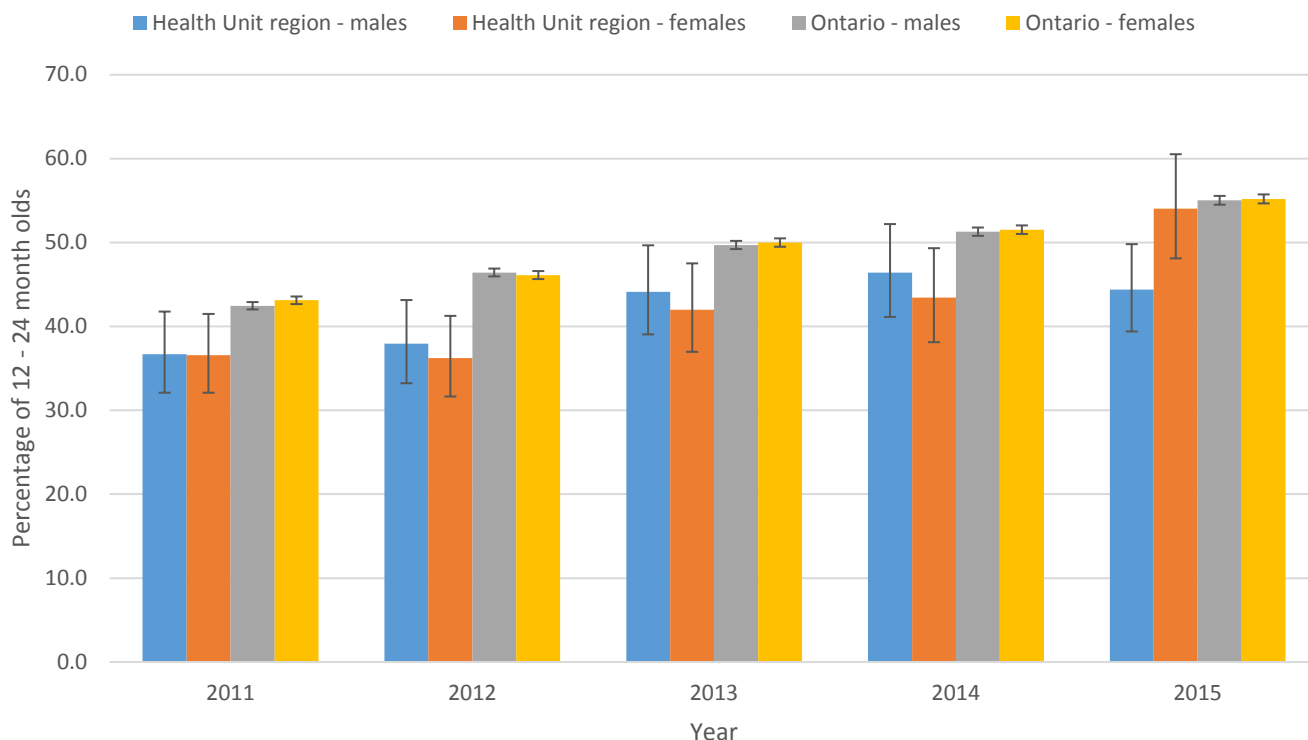


Table 3. Percentage of Enhanced 18 Month Well-Baby Visits Among Children Aged 12 to 24 months, by Sex, Year & Health Region, 2011-2015

Year	Health Unit region – Males	Health Unit region – Females	Ontario – Males	Ontario - Females
2011	36.7* (32.1, 41.8)	36.6* (32.1, 41.5)	42.5 (42.0, 42.9)	43.1 (42.7, 43.6)
2012	37.9* (33.2, 43.1)	36.2* (31.6, 41.3)	46.4 (46.0, 46.9)	46.1 (45.6, 46.6)
2013	44.1 (39.1, 49.7)	42.0* (37.0, 47.5)	49.7 (49.2, 50.2)	50.0 (49.5, 50.5)
2014	46.4 (41.1, 52.2)	43.5* (38.1, 49.3)	51.3 (50.8, 51.8)	51.5 (51.0, 52.0)
2015	44.4* (39.4, 49.8)	54.1 (48.1, 60.5)	55.0 (54.5, 55.6)	55.2 (54.7, 55.7)

* The percentage is significantly different than the Ontario percentage during the corresponding calendar year

Appendix A: Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit & the Number of Children Aged 12 to 24 Months with a Valid Health Card in the Health Unit region

Table 4. Number of Children Who Attended an Enhanced 18 Month Well-Baby Visits and the Number of Children Aged 12 to 24 Months with a Valid Health Card During the Corresponding Year, by Year, NBPSDHU Region, 2011-2015

Year	Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit	Number of Children Aged 12 to 24 Months with a Valid Health Card
2011	470	1,283
2012	459	1,238
2013	526	1,221
2014	518	1,151
2015	588	1,204

Appendix B: Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit & the Number of Children Aged 12 to 24 Months with a Valid Health Card by Geography in the Health Unit region

Table 5. Number of Children Who Attended an Enhanced 18 Month Well-Baby Visits and the Number of Children Aged 12 to 24 Months with a Valid Health Card During the Corresponding Year, by Year, City of North Bay, 2011-2015

Year	Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit	Number of Children Aged 12 to 24 Months with a Valid Health Card
2011	186	571
2012	204	537
2013	231	535
2014	225	498
2015	266	526

Table 6. Number of Children Who Attended an Enhanced 18 Month Well-Baby Visits and the Number of Children Aged 12 to 24 Months with a Valid Health Card During the Corresponding Year, by Year, City of Parry Sound, 2011-2015

Year	Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit	Number of Children Aged 12 to 24 Months with a Valid Health Card
2011	44	71
2012	36	67
2013	56	86
2014	60	79
2015	52	84

Note: The City of Parry Sound includes regions whose postal codes are not linked to other municipalities, and excludes outlying regions with links to nearby municipalities (e.g., Seguin).

Table 7. Number of Children Who Attended an Enhanced 18 Month Well-Baby Visits and the Number of Children Aged 12 to 24 Months with a Valid Health Card During the Corresponding Year, by Year, West & North Nipissing, 2011-2015

Year	Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit	Number of Children Aged 12 to 24 Months with a Valid Health Card
2011	66	179
2012	60	196
2013	67	176
2014	49	175
2015	63	171

Note: West & North Nipissing includes the Municipality of West Nipissing, Nipissing 10 First Nations reserve, and the Unorganized North Part of the Nipissing region.

Table 8. Number of Children Who Attended an Enhanced 18 Month Well-Baby Visits and the Number of Children Aged 12 to 24 Months with a Valid Health Card During the Corresponding Year, by Year, East Nipissing & North East Parry Sound, 2011-2015

Year	Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit	Number of Children Aged 12 to 24 Months with a Valid Health Card
2011	83	238
2012	66	213
2013	74	218
2014	93	204
2015	97	222

Note: The East Nipissing & North East Parry Sound region includes Bonfield, Callander, Powassan, Nipissing, East Ferris, Calvin, Mattawa, Mattawan, Papineau-Cameron, Chisholm, Unorganized South Part of Nipissing, and the Unorganized North East Part of Parry Sound.

Table 8. Number of Children Who Attended an Enhanced 18 Month Well-Baby Visits and the Number of Children Aged 12 to 24 Months with a Valid Health Card During the Corresponding Year, by Year, Central, West, and South East Parry Sound, 2011-2015

Year	Number of Children Who Attended an Enhanced 18 Month Well-Baby Visit	Number of Children Aged 12 to 24 Months with a Valid Health Card
2011	91	224
2012	93	225
2013	98	206
2014	91	195
2015	110	201

Note: The Central, West, and South East Parry Sound region includes outlying areas of the Town of Parry Sound, The Archipelago, Henvey Inlet 2 First Nations reserve, Magnetawan 1 First Nations reserve, French River 13 First Nations reserve, Seguin, McDougall, Shawanaga 17 First Nations reserve, McKellar, Carling, Machar, Whitestone, Magnetawan, Joly, Sundridge, Strong, South River, Kearney, Perry, Ryerson, Burk's Falls, McMurrich/Monteith, Armour, and the Unorganized Centre Part of Parry Sound.