

## 2011 - Quality Dimension – APPROPRIATENESS:

Care/service provided is relevant to the patients'/clients' needs and based on established standards.

(Relevant and evidence based)

Indicators	NB Value	Range of values from other provinces (worse to better value) Or benchmark/target	2011 NB Grade	Source
<b>Health care sector - PRIMARY HEALTH:</b>				
The care a person receives upon first contact with the health system, before referral elsewhere within the system. It focuses on health promotion, illness and injury prevention, and the diagnosis and treatment of illness.				
Pap smear within the last 3 years, for females aged 18 to 69 years (percentage)*	(2007-2008) <b>78.9%</b>	70.7% - 87.0%	--	Statistics Canada, Canadian Community Health Survey, available through the New Brunswick Department of Health, (range used is New Brunswick Health Zones)
Received a mammogram within the last 2 years, females aged 50 to 69 years (percentage)*	(2009-2010) <b>76.8%</b>	68.5% - 76.8%	<b>A+</b>	<i>NEW SOURCE:</i> Statistics Canada, Canadian Community Health Survey, available through the New Brunswick Department of Health
Breastfeeding initiation (percentage)*	(2009-2010) <b>82.0%</b>	62.4% - 93.3%	<b>B</b>	<i>NEW SOURCE:</i> Statistics Canada, Table 105-0502 <a href="http://www.statcan.gc.ca">http://www.statcan.gc.ca</a>
Colorectal cancer screening above age 50 (colonoscopy in the past 5 years or a fecal occult blood test in the past 2 years) (percentage)*	(2008) <b>40.5%</b>	31.3% - 64.3%	<b>E</b>	Statistics Canada, Table 105-0541 <a href="http://www.statcan.gc.ca">http://www.statcan.gc.ca</a>
Proportion of kindergarten children meeting immunization requirements (percentage)	(2009-2010) <b>91.4%</b>	88.1% - 99.0%	--	New Brunswick Department of Health, Office of the Chief Medical Officer of Health (range used is New Brunswick Health Zones)
% of adult 65 and over who received their flu shot in the last year (percentage)	(2009-2010) <b>63.2%</b>	50.65 - 73.1%	<b>C</b>	Statistics Canada, Table 105-0502 <a href="http://www.statcan.gc.ca">http://www.statcan.gc.ca</a>
Age-Standardized Percent of Adults With One or More of Four Select Chronic Conditions Who Had Measurements for Blood Pressure in the past 12 months (percentage)*	(2011) <b>93.3%</b>	88.0% - 97.0% (2008)	<b>B</b>	New Brunswickers' Experiences with Primary Health Care, 2011 Survey Results (NBHC 2011) <a href="http://www.nbhc.ca/nb_primary_care_health_survey.cfm">http://www.nbhc.ca/nb_primary_care_health_survey.cfm</a> in combination with Canadian Institute of Health Information-Experiences With Primary Health Care in Canada 2009(for range) <a href="http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E">http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E</a>
Age-Standardized Percent of Adults With One or More of Four Select Chronic Conditions Who Had Measurements for Cholesterol in the past 12 months (percentage)*	(2011) <b>79.8%</b>	78.0 - 86.0% (2008)	<b>E</b>	New Brunswickers' Experiences with Primary Health Care, 2011 Survey Results (NBHC 2011) <a href="http://www.nbhc.ca/nb_primary_care_health_survey.cfm">http://www.nbhc.ca/nb_primary_care_health_survey.cfm</a> in combination with Canadian Institute of Health Information-Experiences With Primary Health Care in Canada 2009(for range) <a href="http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E">http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E</a>

Age-Standardized Percent of Adults With One or More of Four Select Chronic Conditions Who Had Measurements for Blood Sugar in the past 12 months (percentage)*	(2011)	<b>76.6%</b>	75.0% - 85.0% (2008)	<b>E</b>	New Brunswickers' Experiences with Primary Health Care, 2011 Survey Results (NBHC 2011) <a href="http://www.nbhc.ca/nb_primary_care_health_survey.cfm">http://www.nbhc.ca/nb_primary_care_health_survey.cfm</a> in combination with Canadian Institute of Health Information- Experiences With Primary Health Care in Canada 2009(for range) <a href="http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E">http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E</a>
Age-Standardized Percent of Adults With One or More of Four Select Chronic Conditions Who Had Measurements for Body Weight in the past 12 months (percentage)*	(2011)	<b>64.3%</b>	66.0% - 80.0% (2008)	<b>E</b>	New Brunswickers' Experiences with Primary Health Care, 2011 Survey Results (NBHC 2011) <a href="http://www.nbhc.ca/nb_primary_care_health_survey.cfm">http://www.nbhc.ca/nb_primary_care_health_survey.cfm</a> in combination with Canadian Institute of Health Information- Experiences With Primary Health Care in Canada 2009(for range) <a href="http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E">http://www.cihi.ca/cihiweb/dispPage.jsp?cw_page=AR_2991_E</a>
<b>Health care sector - ACUTE CARE:</b> The care provided in a hospital or a psychiatric facility.					
Hysterectomy age-standardized rate (rate per 100,000)*	(2009)	<b>436</b>	437 - 298	<b>F</b>	Canadian Institute for Health Information - 2011 Health Indicators Report <a href="https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635">https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635</a>
Proportion of women delivering babies in acute care hospitals by Caesarean section (percentage)*	(2009)	<b>28.9%</b>	31.5% - 20.2%	<b>E</b>	Canadian Institute for Health Information - 2011 Health Indicators Report <a href="https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635">https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635</a>
Universal newborn and infant hearing screening (percentage)	(2009-2010)	<b>87.8%</b>	70.1% - 99.5%	--	New Brunswick Department of Health, DAD/#M / AHIM
Aged-standardized mental illness hospitalization rate (age-standardized rate per 100,000)	(2009-2010)	<b>607</b>	927 - 364	<b>C</b>	Canadian Institute for Health Information - 2011 Health Indicators Report <a href="https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635">https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635</a>
<b>Health care sector - SUPPORTIVE/SPECIALTY:</b> The care received in the community or as an out-patient to prevent, control, or relieve complications and/or side effects and to improve the citizen's comfort and quality of life.					
Patients with repeat hospitalizations for mental illness (Risk adjusted percentage)	(2008-2009)	<b>11.9%</b>	13.8% - 9.9%	<b>C</b>	Canadian Institute for Health Information - 2011 Health Indicators Report <a href="https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635">https://secure.cihi.ca/estore/productFamily.htm?locale=en&amp;pf=PFC1635</a>
<b>Overall Performance Index</b>				<b>D</b>	

### Letter grading methodology for individual indicators:

The analysis is based on the indicators available when the report was completed. The letter grading is calculated by first identifying the lowest and highest values among provinces. The range is calculated and then divided by 7 to create cut-off points for grade separations. Grades are assigned to each of the ranges from A+, A, B, C, D, E, and F, in keeping with last year's grading method. A+ will correspond to the highest achievable interval and F to the lowest.

Example:

Step 1 – calculation of range:

- i.e. range = the worse value ( 77%) minus better value ( 84%) = 7

Step 2 – calculation of interval:

- range (7) divided by 7 letter grades = 1

Step 3 – grades are assigned to each interval

- A+=84 to 83.1, A=83 to 82.1, B=82 to 81.1, C=81 to 80.1, D=80 to 79.1, E=79 to 78.1, F=78 to 77

In this case, if NB = is 80% the Grade for this indicator would be D.

### Letter grading methodology for overall grade:

To calculate score, grades are given values to be used for total scoring for trending over time and scoring is used to create overall grade and scoring is used to create overall grade A+ = 1, A = 2, B = 3, C = 4, D = 5, E = 6, F = 7.

Example: *Accessibility* overall Grade

Step 1 – list all individual grades

- C, A+, B, B, D, D, E, F, C, A+, A+, D, D, A+, A+, B, A+, C, B

Step 2 – create average of overall grade using assigned scoring

- $(4+1+3+3+5+5+6+7+4+1+1+5+5+1+1+3+1+4+3) / 19 = 3.3$

In this case, with a score of 3.3, *Accessibility* would get an overall grade of B.

In situations where it is a value reaches 0.5 (i.e. 3.5) we would round up to the next grade level (i.e. 3.5 = C).

**IMPORTANT NOTE:** The overall grade should not be viewed in isolation from indicators on which it is based for any policy and/or planning decisions.

**Please note that a grade does not equal better health results, it only speaks to the quality of services being provided when we compare New Brunswick to other provinces.**

All indicators with stars at the end (\*) were also used in the New Brunswick Health System Report card 2010 (NBHC 2010).