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For permission or information, please contact CIHI:

Canadian Institute for Health Information
495 Richmond Road, Suite 600
Ottawa, Ontario K2A 4H6
Phone: 613-241-7860
Fax: 613-241-8120
cihi.ca
copyright@cihi.ca

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Important notes

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Metadata for each statistic

Name of table	Table 1: Inpatient hospitalizations: Volumes and lengths of stay
Available statistics	Number of discharges
Available breakdowns	<ul style="list-style-type: none"> • National • Province/territory of facility • Sex (male, female, all) • 5-year age group (<1 through 90+)
Inclusions	<ul style="list-style-type: none"> • Discharges from acute care institutions in Canada • Records with invalid length of stay are included in the number of discharges • Records where sex is categorized as “other” are included in the “all” sex counts
Exclusions	<ul style="list-style-type: none"> • Newborns (see Important notes below) • Stillbirths • Cadaveric donors • Invalid or unknown age
Methodology	Number of discharges — all records meeting the above inclusion criteria
Important notes	<ul style="list-style-type: none"> • Geography represents the province/territory where the hospital is located. • Discharges from acute care institutions in a given province/territory may include non-residents of that particular province/territory or of Canada. • Disclosure, volumes of fewer than 5 discharges have been suppressed in the cells and removed from total discharge counts. • There is some inconsistency from year to year between provinces/territories in newborn coding. In some provinces/territories, the category “newborns” includes those born in the reporting facility and those born outside the reporting facility but admitted to that facility within 24 hours of birth.

Name of table	Table 1: Inpatient hospitalizations: Volumes and lengths of stay
Available statistics	Total length of stay (days)
Available breakdowns	<ul style="list-style-type: none"> ● National ● Province/territory of facility ● Sex (male, female, all) ● 5-year age group (<1 through 90+)

<p>Inclusions</p>	<ul style="list-style-type: none"> ● Discharges from acute care institutions in Canada ● Records where sex is categorized as “other” are included in the “all” sex counts
<p>Exclusions</p>	<ul style="list-style-type: none"> ● Newborns (see Important notes below) ● Invalid lengths of stay ● Stillbirths ● Cadaveric donors ● Invalid or unknown age
<p>Methodology</p>	<ul style="list-style-type: none"> ● Average length of stay — calculated by dividing total length of stay by number of discharges with a valid length of stay
<p>Important notes</p>	<ul style="list-style-type: none"> ● Geography represents the province/territory where the hospital is located. ● Discharges from acute care institutions in a given province/territory may include non-residents of that particular province/territory or of Canada. ● There is some inconsistency from year to year between provinces/territories in newborn coding. In some provinces/territories, the category “newborns” includes those born in the reporting facility and those born outside the reporting facility but admitted to that facility within 24 hours of birth. <p>V@^!^~ [!^ÉÁc@^Á, * ~ !^•Á] !^•^ } c^áÁ@^!^Á^ø& ~ á^</p> <p style="padding-left: 40px;">All newborns born in the reporting facility; and</p> <p style="padding-left: 40px;">Some newborns born outside the reporting facility but admitted to that facility within 24 hours of birth.</p> <p style="padding-left: 40px;">This will result in a slight undercount of discharges.</p> <ul style="list-style-type: none"> ● Š^ } *c@Á [-Á•cæ^Á•cæci•ci&Á { æ^áà^Áá } ' ~ ^ } &^ááà^Á&æ•^•Á, äc@Áç^!^Á [] *Á•cæ^•ÉÁ <p>A hospitalization’s length of stay days are reported in the year the patient is discharged. For example, days associated with a patient who is hospitalized for</p> <p>æÁ</p>

Exclusions	<ul style="list-style-type: none">● Newborns (see Important notes below)● Stillbirths● Cadaveric donors● Invalid or unknown age

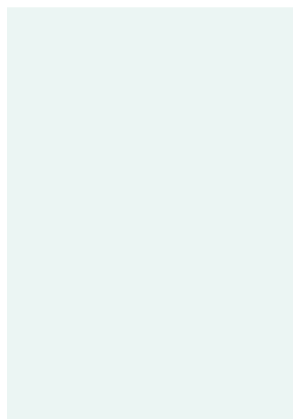
<p>Interpretation</p>	<ul style="list-style-type: none"> • χ^2 test of independence for categorical variables and gender distributions of 2 or more populations (e.g., Ontario and Alberta) when • χ^2 test of independence for categorical variables and gender distributions of 2 or more populations (e.g., Ontario and Alberta) when
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Methodology	

Childbirth Indicators by Place of Residence

As of April 2021, hospitalization and childbirth statistics (including historical results) are available in preformatted supplementary data tables from the Canadian Institute for Health Information (CIHI) on our [Hospital stays in Canada](#) web page. Previously, these results were available in interactive tables in CIHI's [Quick Stats](#) tool.

Metadata for each indicator follows the template below:



Exclusions	<ul style="list-style-type: none">● Stillbirth records or newborns● Cadaveric donors● Non-female records●

Name of indicator	Assisted Delivery Rate (Overall) Among Vaginal Deliveries
Inclusions	<p>Discharges from acute care institutions in Canada</p> <p>ICD-9 delivery codes:</p> <ul style="list-style-type: none"> • 650 coded in any position or • V27 coded in any position <p>ICD-10-CA delivery codes (2001 and 2003 versions used for 2001–2002 to 2005–2006 indicators):</p> <ul style="list-style-type: none"> • Any diagnosis code of O10 to O16, O20 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or • Z37 coded in any position <p>ICD-10-CA delivery codes (2006, 2009, 2012, 2015 and 2018 versions used for 2006–2007 to 2021–2022 indicators):</p> <ul style="list-style-type: none"> • Any diagnosis code of O10 to O16, O21 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or • Z37 coded in any position <p>CCP assisted delivery codes:</p> <ul style="list-style-type: none"> • Procedure code of 84.0, 84.1, 84.2, 84.3 or 84.7 coded in any position that was not <p>CCI assisted delivery codes:</p> <ul style="list-style-type: none"> • Any procedure code of 5.MD.53.KL, 5.MD.53.KK, 5.MD.53.KN, 5.MD.53.KM, 5.MD.53.KJ, 5.MD.53.KH, 5.MD.53.KS (Out-of-Hospital)

Name of indicator	Assisted Delivery Rate (Vacuum Extraction) Among Vaginal Deliveries
Inclusions	<p>Discharges from acute care institutions in Canada</p> <p>ICD-9 delivery codes:</p> <ul style="list-style-type: none"> • 650 coded in any position or • V27 coded in any position <p>ICD-10-CA delivery codes (2001 and 2003 versions used for 2001–2002 to 2005–2006 indicators):</p> <ul style="list-style-type: none"> • Any diagnosis code of O10 to O16, O20 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or • Z37 coded in any position <p>ICD-10-CA delivery codes (2006, 2009, 2012, 2015 and 2018 versions used for 2006–2007 to 2021–2022 indicators):</p> <ul style="list-style-type: none"> • Any diagnosis code of O10 to O16, O21 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or • Z37 coded in any position <p>CCP vacuum extraction codes:</p> <ul style="list-style-type: none"> • A procedure code of 84.7 coded in any position that was not cancelled <p>CCI vacuum extraction codes:</p> <ul style="list-style-type: none"> • A procedure code of 5.0.h

Name of indicator	Assisted Delivery Rate (Forceps) Among Vaginal Deliveries
Inclusions	Discharges from acute care institutions in Canada ICD-9 delivery codes:

Exclusions (continued)

CCI (2006 version used for 2006–2007 to 2007–2008 indicators):

Procedure code of 5.CA.88, 5.CA.89 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)
or

Name of indicator	Total Caesarean Section Rate
<p>Inclusions</p>	<p>Discharges from acute care institutions in Canada</p> <p>ICD-9 delivery codes:</p> <ul style="list-style-type: none"> • 650 coded in any position or • V27 coded in any position <p>ICD-10-CA delivery codes (2001 and 2003 versions used for 2001–2002 to 2005–2006 indicators):</p> <ul style="list-style-type: none"> • Any diagnosis code of O10 to O16, O20 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or • Z37 coded in any position <p>ICD-10-CA delivery codes (2012, 2015 and 2018 versions used for 2013–2014 to 2021–2022 indicators):</p> <ul style="list-style-type: none"> • Any diagnosis code of O10 to O16, O21 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or • Z37 coded in any position <p>CCP Caesarean section delivery codes:</p> <ul style="list-style-type: none"> • Procedure code of 86.0 to 86.2, 86.8 or 86.9 coded in any position that was not <p>CCI Caesarean section delivery codes:</p> <ul style="list-style-type: none"> • A procedure code of 5.MD.60 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)
<p>Exclusions</p>	<ul style="list-style-type: none"> • Stillbirth records or newborns • Cadaveric donors • Non-female records • An abortive procedure: <p>CCP:</p> <p>Procedure code of 86.3, 86.4, 87.0, 87.1 or 87.2 coded in any position</p> <p>Salpingectomy (partial) with removal of tubal pregnancy; removal of ectopic fetus from fallopian tube: a procedure code of 78.52 coded in any position</p> <p>CCI (2001 and 2003 versions used for 2001–2002 to 2005–2006 indicators):</p> <p>Procedure code of 5.CA.88, 5.CA.89, 5.CA.90 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)</p>

<p>Exclusions (continued)</p>	<p>CCI (2012, 2015 and 2018 versions used for 2013–2014 to 2021–2022 indicators):</p> <p>Any procedure code of 5.CA.20, 5.CA.24, 5.CA.88, 5.CA.89 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y) or</p>
<p>Methodology</p>	<p>All records meeting the above inclusion/exclusion criteria</p> <p>Rate = (Number of Caesarean section deliveries) ÷ (Number of deliveries) x 100</p>
<p>Important notes</p>	<ul style="list-style-type: none"> • This indicator was previously available only in the Health Indicators series of publications. As of April 23, 2020, historical ToEM3 191.e9999694maesarresucical ToEM3 191.e9999694

<p>Methodology</p>	<p>All records meeting the above inclusion/exclusion criteria</p> <p>Rate = (Number of primary Caesarean section deliveries) ÷ (Number of deliveries without a previous Caesarean section) x 100</p>
<p>Important notes</p>	<ul style="list-style-type: none"> • Changes to the methodology for deriving the Primary and Secondary Caesarean section rates have resulted in changes to the methodology for deriving the Primary and Secondary Caesarean section rates. The methodology used ICD-9/CCP and ICD-10-CA/CCI versions 2001, 2003 and 2006, may not be applicable to other versions.

<p>Name of indicator</p>	<p>Primary Caesarean Section Rate (Age <35 Years)</p>
<p>Inclusions</p>	<p>Discharges from acute care institutions in Canada</p> <ul style="list-style-type: none"> • Patient Age <35 years <p>ICD-9 delivery codes:</p> <p>650 coded in any position or V27 coded in any position</p> <p>ICD-10-CA delivery codes (2001 and 2003 versions used for 2001–2002 to 2005–2006 indicators):</p> <p>Any diagnosis code of O10 to O16, O20 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or Z37 coded in any position</p> <p>ICD-10-CA delivery codes (2006, 2009, 2012, 2015 and 2018 versions used for 2006–2007 to 2021–2022 indicators):</p> <p>Any diagnosis code of O10 to O16, O21 to O29, O30 to O46, O48, O60 to O75, O85 to O92, O95, or O98 to O99, with a sixth digit of 1 or 2 coded in any position or Z37 coded in any position</p> <p>CCP Caesarean section delivery codes:</p> <ul style="list-style-type: none"> • Any procedure code of 86.0 to 86.2, 86.8 or 86.9 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y) <p>CCI Caesarean section delivery codes:</p> <ul style="list-style-type: none"> • A procedure code of 5.MD.60 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)

<p>Exclusions</p>	<ul style="list-style-type: none"> ● Stillbirth records or newborns ● Cadaveric donors ● Non-female records ● An abortive procedure: <p>CCP:</p> <p>Procedure code of 86.3, 86.4, 87.0, 87.1 or 87.2 coded in any position</p> <p>Salpingectomy (partial) with removal of tubal pregnancy; removal of ectopic fetus from fallopian tube: a procedure code of 78.52 coded in any position</p> <p>CCI (2001 and 2003 versions used for 2001–2002 to 2005–2006 indicators):</p> <p>Procedure code of 5.CA.88, 5.CA.89, 5.CA.90 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)</p> <p>CCI (2006 version used for 2006–2007 to 2007–2008 indicators):</p> <p>Procedure code of 5.CA.88, 5.CA.89 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)</p> <p>or</p> <p>An ICD-10-CA diagnosis code of O04 coded as most responsible diagnosis and Z37 coded as type (3) diagnosis</p> <p>CCI (2006, 2009, 2012, 2015 and 2018 versions used for 2008–2009 to 2021–2022 indicators):</p> <p>Any procedure code of 5.CA.20, 5.CA.24, 5.CA.88, 5.CA.89 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y) or</p> <ul style="list-style-type: none"> ● Ú!^çâ[~•É!^] ^æçâ[!Á ~ } â^, } ^â!Ôæ^•æ!^æ } Á•^&çâ[]K <p>ICD-9 previous Caesarean section delivery codes:</p> <p>A diagnosis code of 654.2 coded in any position</p> <p>ICD-10-CA (2001, 2003 and 2006 versions used for 2001–2002 to 2008–2009 indicators) previous Caesarean section delivery codes:</p> <p>Any diagnosis code of O34.201, O66.401 or O75.701 coded in any position</p> <p>ICD-10-CA and CCI previous or repeat Caesarean section delivery codes (2009, 2012, 2015 and 2018 versions used for 2009–2010 to 2021–2022 indicators):</p> <p>Any diagnosis code of O34.201, O66.401 or O75.701 coded in any position or</p> <p>A procedure code of 5.MD.60 coded in any position that was coded as a repeat (Status Attribute = N4 or N6; or Status Attribute = RA, RB or RC, as of the 2018 version)</p> <p>Procedure code of 5.MD.60 coded in any position that was coded with a Status Attribute of “unknown” (Status Attribute = Z) and without any diagnosis code of O34.201, O66.401 or O75.701 coded in any position</p>
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Methodology	<p>All records meeting the above inclusion/exclusion criteria</p> <p>Rate = (Number of primary Caesarean section deliveries) ÷ (Number of deliveries without a previous Caesarean section, age <35 years) × 100</p>
Important notes	<ul style="list-style-type: none"> • \hat{O}_{a} * $\wedge \cdot \hat{a}$ } $\hat{c} \wedge \hat{i} \cdot \hat{a}$ [} \hat{a} †

Exclusions

- Stillbirth records or newborns
- Cadaveric donors
- Non-female records
- An abortive procedure:

CCP:

Procedure code of 86.3, 86.4, 87.0, 87.1 or 87.2 coded in any position

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Salpingectomy (partial) with removal of tubal pregnancy; removal of ectopic fetus from fallopian tube: a procedure code of 78.52 coded in any position

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CCI (2001 and 2003 versions used for 2001–2002 to 2005–2006 indicators):

Procedure code of 5.CA.88, 5.CA.89, 5.CA.90 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)

CCI (2006 version used for 2006–2007 to 2007–2008 indicators):

Procedure code of 5.CA.88, 5.CA.89 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y) **or**

An ICD-10-CA diagnosis code of O04 coded as most responsible diagnosis and Z37 coded as type (3) diagnosis

CCI (2006, 2009, 2012, 2015 and 2018 versions used for 2008–2009 to 2021–2022 indicators):

Any procedure code of 5.CA.20, 5.CA.24, 5.CA.88, 5.CA.89 or 5.CA.93 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y) **or**

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ICD-9 previous Caesarean section codes:

A diagnosis code of 654.2 coded in any position

ICD-10-CA previous Caesarean section codes (2001, 2003 and 2006 versions used for 2001–2002 to 2008–2009 indicators):

Any diagnosis code of O34.201, O66.401 and O75.701 coded in any position

ICD-10-CA and CCI previous or repeat Caesarean section delivery codes (2009, 2012, 2015 and 2018 versions used for 2009–2010 to 2021–2022 indicators):

Any diagnosis code of O34.201, O66.401 or O75.701 coded in any position **or**

A procedure code of 5.MD.60 coded in any position that was coded as a repeat (Status Attribute = N4 or N6; or Status Attribute = RA, RB or RC, as of the 2018 version)

Procedure code of 5.MD.60 coded in any position that was coded with a Status Attribute of “unknown” (Status Attribute = Z) and without any diagnosis code of O34.201, O66.401 or O75.701 coded in any position

<p>Methodology</p>	<p>All records meeting the above inclusion/exclusion criteria</p> <p>Rate = (Number of primary Caesarean section deliveries) ÷ (Number of deliveries)</p>
<p>Important notes</p>	

<p>Inclusions (continued)</p>	<p>CCP Caesarean section delivery codes:</p> <ul style="list-style-type: none"> Any procedure code of 86.0 to 86.2, 86.8 or 86.9 coded in any position that was not <p>CCI Caesarean section delivery codes:</p> <ul style="list-style-type: none"> A procedure code of 5.MD.60 coded in any position that was not abandoned (Status Attribute = A) or done out of hospital (Out-of-Hospital = Y)
<p>Exclusions</p>	<ul style="list-style-type: none"> Stillbirth records or newborns Cadaveric donors Non-female records

Name of indicator	Low Birth Weight Rate (<2,500 Grams)
Inclusions	<p>Discharges from acute care institutions in Canada</p> <p>ICD-10-CA in-hospital birth codes (2006, 2009, 2012, 2015 and 2018 versions used for 2006–2007 to 2021–2022 indicators only):</p> <ul style="list-style-type: none"> Any diagnosis code of Z38.0, Z38.3 or Z38.6 coded in any position Weight <2,500 grams
Exclusions	<ul style="list-style-type: none"> Non-newborn records Cadaveric donors Invalid birth weight (Weight = blank, 0000, 0001 or ZZZZ) <p>ICD-10-CA abortion or out-of-hospital birth codes (2006, 2009, 2012, 2015 and 2018 versions used for 2006–2007 to 2021–2022 indicators only):</p> <ul style="list-style-type: none"> Any diagnosis code of P96.4, Z38.1, Z38.2, Z38.4, Z38.5, Z38.7 or Z38.8 coded
Methodology	<p>All records meeting the above inclusion/exclusion criteria</p> <p>Rate = (Number of live newborns with a birth weight less than 2,500 grams) ÷ (Number of live newborns with a valid birth weight) × 100</p>

Name of indicator	Low Birth Weight Rate (<2,500 Grams, Excluding <500 Grams)
Inclusions	<p>Discharges from acute care institutions in Canada</p> <p>ICD-10-CA in-hospital birth codes (2006, 2009, 2012, 2015 and 2018 versions used for 2006–2007 to 2021–2022 indicators only):</p> <ul style="list-style-type: none"> Any diagnosis code of Z38.0, Z38.3 or Z38.6 coded in any position Weight <2,500 grams
Exclusions	<ul style="list-style-type: none"> Non-newborn records Cadaveric donors Weight <500 grams Invalid birth weight (Weight = blank, 0000, 0001 or ZZZZ) <p>ICD-10-CA abortion or out-of-hospital birth codes (2006, 2009, 2012, 2015 and 2018 versions used for 2006–2007 to 2021–2022 indicators only):</p> <ul style="list-style-type: none"> Any diagnosis code of P96.4, Z38.1, Z38.2, Z38.4, Z38.5, Z38.7 or Z38.8 coded
Methodology	<p>All records meeting the above inclusion/exclusion criteria</p> <p>Rate = (Number of live newborns with a birth weight between 500 grams and 2,499 grams, inclusive) ÷ (Number of live newborns with a birth weight greater than or equal to 500 grams) × 100</p>

Name of indicator	Preterm Birth Rate (<37 Weeks Gestation)
Inclusions	<p>Discharges from acute care institutions in Canada</p> <p>ICD-10-CA in-hospital birth codes (2006, 2009, 2012, 2015 and 2018 versions used for 2007–2008 to 2021–2022 indicators only):</p> <ul style="list-style-type: none"> • Any diagnosis code of Z38.0, Z38.3 or Z38.6 coded in any position

Exclusions (continued)	<p>ICD-10-CA multiple births codes (2006, 2009, 2012, 2015 and 2018 versions used for 2007–2008 to 2021–2022 indicators only):</p> <ul style="list-style-type: none"> Any newborn record (Entry Code = N with a Z38 diagnosis code) where 2 or more newborn records are born to the same mother (duplicate Maternal Newborn Chart Number) within 40 days of one another (based on Admission Date) in the same institution (Institution Number) or Any ICD-10-CA multiple birth diagnosis code of Z38.3, Z38.4, Z38.5, Z38.6, Z38.7 <p>ICD-10-CA abortion or other out-of-hospital birth codes (2006, 2009, 2012, 2015 and 2018 versions used for 2007–2008 to 2021–2022 indicators only):</p> <ul style="list-style-type: none">
Methodology	<p>All records meeting the above inclusion/exclusion criteria</p> <p>Singleton newborns with a valid birth weight, gestational age and gender) × 100</p>
Important notes	<ul style="list-style-type: none"> Standard Canadian birth weights for gestational age by gender charts were used; see Kramer MS, et al. A new and improved population-based Canadian reference for birth weight for gestational age. 2001. The Small-for-Gestational-Age Rate indicator was new in Quick Stats as

Contact details

Visit CIHI's website for more information about the [Discharge Abstract Database \(DAD\)](#) or the [Hospital Morbidity Database \(HMDB\)](#), or send an email to cad@cihi.ca.

All other inquiries can be sent to

Canadian Institute for Health Information
 495 Richmond Road, Suite 600
 Ottawa, ON K2A 4H6
 Phone: 613-241-7860
 Fax: 613-241-8120

