Disclaimer

– Although significant effort has been made to ensure the accuracy of the information presented in this report, neither the authors nor BORN Ontario nor any other parties make any representation or warranties as to the accuracy, reliability or completeness of the information contained herein.

– Please refer to notes for detailed information on inclusion/exclusion criteria.

– ‘Not acknowledged’ means records are either entered or not in the BORN Information System (BIS) but they weren’t validated and acknowledged as final and are therefore not available for release. Hospitals acknowledge records on a monthly basis.

– Hospital 16 doesn’t have acknowledgement for November 2016. This quarter should be interpreted with caution. Hospitals 14 and 21 don't have acknowledgement for fiscal year 2018-2019 and therefore have been removed from analysis.

– If a value is ‘0’, it indicates that no records were in the denominator and/or numerator.

– This analysis extracted data from the open sets of the BIS, therefore the numbers may be slightly different from previous runs.

– Data was extracted from the BORN Information System (BIS) on October 9, 2019

– We included based on current level of care – some hospitals did change level of care over the time period presented.
SOON Hospitals (As of October 2019)

- Halton Healthcare Services - Milton District Hospital
- Halton Healthcare - Georgetown Hospital
- Halton Healthcare - Oakville Trafalgar Memorial Hospital
- Humber River Hospital
- Lakeridge Health—Ajax and Pickering
- Lakeridge Health—Oshawa
- Lakeridge Health—Port Perry
- London Health Sciences Centre
- MacKenzie Health
- McMaster Hospital – Hamilton
- Mount Sinai
- North York General Hospital
- Royal Victoria Regional Health Centre
- Southlake Regional Health Centre
- St. Joseph’s Health Centre Toronto
- St. Michaels Hospital
- Sunnybrook Health Sciences Centre
- The Scarborough and Rouge Hospital – Birchmount
- The Scarborough and Rouge Hospital – Centenary
- The Scarborough and Rouge Hospital – General
- Toronto East Health Network – Michael Garron Hospital
- Trillium Health Partners – Credit Valley Hospital
- Trillium Health Partners – Mississauga Hospital
- William Osler Health Centre – Brampton Civic
- William Osler Health Centre – Etobicoke General Hospital
Low Risk Definition

- Nulliparous
- ≥37 weeks gestation
- Cephalic
- Singleton
- Spontaneous labour
- Maternal pre-pregnancy BMI <40 kg/m²
- AND, excluding the following maternal/fetal risk factors:
## Low Risk Definition

<table>
<thead>
<tr>
<th>Classification of Disorders</th>
<th>Specific Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maternal Health Conditions</strong></td>
<td><strong>(M0013)</strong></td>
</tr>
<tr>
<td>Autoimmune</td>
<td>Lupus; Rheumatoid Arthritis; Autoimmune Other</td>
</tr>
<tr>
<td>Cancer</td>
<td>Diagnosed in Pregnancy; Medication exposure in pregnancy – Chemotherapeutic Agents</td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>Acquired Heart Disease; Antihypertensive Therapy Outside of Pregnancy; Cardiovascular Disease; Congenital Heart Defect; Congenital Heart Disease; Pre-existing Hypertension; Renal Disease; Cardiovascular Other</td>
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<tr>
<td>Diabetes</td>
<td>Diabetes and Pregnancy</td>
</tr>
<tr>
<td>Gastrointestinal</td>
<td>Liver/ Gallbladder -Cholecystitis; Colitis; Crohn’s; Hepatitis; Liver/ Gallbladder -Intrahepatic Cholestasis of Pregnancy</td>
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<tr>
<td>Genitourinary</td>
<td>Acquired Renal (Insufficiency -Chronic Infections); Congenital/ Genetic Renal (Renal Agenesis – Pelvic Kidney); Renal Disease; Uterine Anomalies; Genitourinary other</td>
</tr>
<tr>
<td>Haematology</td>
<td>Gestational Thrombocytopenia; Haemophilia (A and B Von Willebrand); Idiopathic Thrombocytopenia; Sickle Cell Disease; Thalassemia; Thrombophilia; Haematology Other</td>
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<tr>
<td>Hypertensive Disorders in Pregnancy</td>
<td>Gestational Hypertension; Eclampsia; HELLP; Preeclampsia; Preeclampsia Requiring Magnesium Sulfate; Pre-existing Hypertension with Superimposed Preeclampsia; Maternal Unknown</td>
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<tr>
<td>Musculoskeletal</td>
<td>Achondroplasia; Muscular Dystrophy/ Neuromuscular Disorder; Myotonic Dystrophy; Osteogenesis Imperfecta; Musculoskeletal Other</td>
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<tr>
<td>Neurology</td>
<td>Cerebral Palsy; Multiple Sclerosis; Myasthenia Gravis; Spina Bifida/ Neural Tube Defect; Neurology Other</td>
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<tr>
<td>Pulmonary</td>
<td>Cystic Fibrosis; Previous Pulmonary Embolism/ Deep Vein Thrombosis; Pulmonary Hypertension; Pulmonary Other</td>
</tr>
<tr>
<td><strong>[Other]</strong></td>
<td>Maternal Health Conditions Other</td>
</tr>
<tr>
<td><strong>Complications of Pregnancy</strong></td>
<td><strong>(M0531)</strong></td>
</tr>
<tr>
<td>Fetal</td>
<td>Anomalies; Isoimmunization/ Alloimmunization; Intrauterine Growth Restriction; Oligohydramnios; <em>Fetal therapy – Fetal surgery</em></td>
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<tr>
<td>Placental</td>
<td>Placenta Accreta; Placenta Increta; Placenta Percreta; Placenta Previa; Placental Abruption; Placental Other</td>
</tr>
</tbody>
</table>
Indicator 1: Rate of Admission to NICU at Term
(SOON, 2018/2019)

Data Source: BORN Ontario 2018/2019
Definition of Indicator: The rate of term infant NICU/SCN admissions, by SOON hospital, expressed as a percentage of all live term (≥37 weeks gestation) births, excluding infants with at least one confirmed major sentinel congenital anomaly.
## Indicator 1: Rate of Admission to NICU at Term
(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

### Data Source:

### Definition of Indicator:
The rate of term infant NICU/SCN admission, by level I/IIa/IIb SOON hospital and fiscal year, expressed as a percentage of all live term (≥37 weeks gestation) births, excluding infants with at least one confirmed major sentinel congenital anomaly.

### Chart Description:
- The chart displays the rate of NICU admission for term infants across various hospitals and fiscal years.
- Hospitals are categorized as 'AllHospExcSOON' and 'AllHospON'.

### Table:
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<td>AllHospExcSOON</td>
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Indicator 1: Rate of Admission to NICU at Term (SOON level IIc, 2016/2017 – 2018/2019)

Definition of Indicator: The rate of term infant NICU/SCN admission, by level IIc SOON hospital and fiscal year, expressed as a percentage of all live term (≥37 weeks gestation) births, excluding infants with at least one confirmed major sentinel congenital anomaly.
Indicator 1: Rate of Admission to NICU at Term

Definition of Indicator: The rate of term infant NICU/SCN admission, by level III SOON hospital and fiscal year, expressed as a percentage of all live term (≥37 weeks gestation) births, excluding infants with at least one confirmed major sentinel congenital anomaly.
Indicator 2: Rate of Cesarean Section at 2nd Stage (SOON, 2018/2019)

Data Source: BORN Ontario 2018/2019

Definition of Indicator: The rate of women who had a cesarean section at 2nd stage of labour and full dilation, expressed as a percentage of all live deliveries at ≥ 34 weeks' gestational age in Ontario, by SOON hospital.
Indicator 2: Rate of Cesarean Section at 2nd Stage
(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)


Definition of Indicator: The rate of women who had a cesarean section at 2nd stage of labour and full dilation, expressed as a percentage of all live deliveries at ≥ 34 weeks' gestational age in Ontario, by level I, IIa, IIb SOON hospital and fiscal year.
Indicator 2: Rate of Cesarean Section at 2\textsuperscript{nd} Stage
(SOON level IIc, 2016/2017 – 2018/2019)

\textbf{Data Source:} BORN Ontario 2016/2017 – 2018/2019

\textbf{Definition of Indicator:} The rate of women who had a cesarean section at 2nd stage of labour and full dilation, expressed as a percentage of all live deliveries at $\geq$ 34 weeks' gestational age in Ontario, by level IIc SOON hospital and fiscal year.
Indicator 2: Rate of Cesarean Section at 2\textsuperscript{nd} Stage (SOON level III, 2016/2017 – 2018/2019)


Definition of Indicator: The rate of women who had a cesarean section at 2nd stage of labour and full dilation, expressed as a percentage of all live deliveries at ≥ 34 weeks’ gestational age in Ontario, by level III SOON hospital and fiscal year.
Indicator 3: Rate of Postpartum Hemorrhage (PPH) (SOON, 2018/2019)

**Data Source:** BORN Ontario 2018/2019

**Definition of Indicator:** The rate of women who had a PPH as a complication, expressed as a percentage of all live deliveries at ≥ 24 weeks’ gestational age in Ontario, by SOON hospital.
Indicator 3: Rate of Postpartum Hemorrhage (PPH)  
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Definition of Indicator: The rate of women who had a PPH as a complication, expressed as a percentage of all live deliveries at ≥ 24 weeks’ gestational age in Ontario, by level III SOON hospital and fiscal year.
Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women
(SOON, 2018/2019)

Data Source: BORN Ontario 2018/2019

Definition of Indicator: The rate of cesarean section, expressed as a percentage of all low risk pregnancies in Ontario, by SOON hospital.
Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women
(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)


Definition of Indicator: The rate of cesarean section, expressed as a percentage of all low risk pregnancies in Ontario, by SOON hospital.
Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women
(SOON level IIc, 2016/2017 – 2018/2019)

**Data Source:** BORN Ontario 2016/2017 – 2018/2019

**Definition of Indicator:** The rate of cesarean section, expressed as a percentage of all low risk pregnancies in Ontario, by SOON hospital.
Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women

Definition of Indicator: The rate of cesarean section, expressed as a percentage of all low risk pregnancies in Ontario, by SOON hospital.
Indicator 5: Rate of women eligible for vaginal birth after cesarean (VBAC)  
(SOON, 2018/2019)

**Data Source:** BORN Ontario 2018/2019  
**Definition of Indicator:** Rate of women eligible for VBAC, expressed as a percentage of women who had a live birth, with 1 previous cesarean section, by SOON hospital. SOGC guidelines were used to determine eligibility. We excluded: 1) Women without previous C/S; 2) Previous uterine rupture; 3) Women who declined TOL with planned scheduled repeated C/S; 4) Women with placenta previa or malpresentation; 5) Not eligible for VBAC is clearly defined in the dataset.
Indicator 5: Rate of women eligible for vaginal birth after cesarean (VBAC) (SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

Definition of Indicator: Rate of women eligible for VBAC, expressed as a percentage of women who had a live birth, with 1 previous cesarean section, by level I, IIa, IIb SOON hospital and fiscal year. SOGC guidelines were used to determine eligibility. We excluded: 1) Women without previous C/S; 2) Previous uterine rupture; 3) Women who declined TOL with planned scheduled repeated C/S; 4) Women with placenta previa or malpresentation; 5) Not eligible for VBAC is clearly defined in the dataset.
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Indicator 6: Rate of Attempted VBAC in Eligible Women with 1 Previous Cesarean Section

(SOON, 2018/2019)

Data Source: BORN Ontario 2018/2019

Definition of Indicator: Rate of attempted vaginal birth after cesarean (VBAC), expressed as a percentage of women who had a live birth, with 1 previous cesarean section and who were eligible for VBAC, by SOON hospital. SOGC guidelines were used to determine eligibility. We excluded: 1) Women without previous C/S; 2) Previous uterine rupture; 3) Women who declined TOL with planned scheduled repeated C/S; 4) Women with placenta previa or malpresentation; 5) Not eligible for VBAC is clearly defined in the dataset.
Indicator 6: Rate of Attempted VBAC in Eligible Women with 1 Previous Cesarean Section (SOON level I/IIa/IIb, 2016/2017 – 2018/2019)


Definition of Indicator: Rate of attempted vaginal birth after cesarean (VBAC), expressed as a percentage of women who had a live birth, with 1 previous cesarean section and who were eligible for VBAC, by level I, IIa, IIb SOON hospital and fiscal year. SOGC guidelines were used to determine eligibility. We excluded: 1) Women without previous C/S; 2) Previous uterine rupture; 3) Women who declined TOL with planned scheduled repeated C/S; 4) Women with placenta previa or malpresentation; 5) Not eligible for VBAC is clearly defined in the dataset.
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Indicator 7: Successful VBAC Rate in Attempted Women with 1 Previous Cesarean Section  
(SOON, 2018/2019)

Data Source: BORN Ontario 2018/2019

Definition of Indicator: Successful vaginal birth after attempted trial of labour for women with 1 previous cesarean section. Expressed as a percentage of all eligible women who had a live birth, 1 previous cesarean section and who attempted VBAC, by SOON hospital. We excluded: 1) Women without previous C/S; 2) Previous uterine rupture; 3) Women who declined TOL with planned scheduled repeated C/S; 4) Women with placenta previa or malpresentation; 5) Not eligible for VBAC is clearly defined in the dataset.
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(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

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