BORN Ontario

Better Outcomes Registry & Network
Registre et Réseau des Bons Résultats dès la naissance

Southern Ontario Obstetrical Network (SOON) Dashboard

October 2019

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.

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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

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Low Risk Definition

- Nulliparous

- ≥37 weeks gestation

- Cephalic

- Singleton

- Spontaneous labour

- Maternal pre-pregnancy BMI <40 kg/m^2

- AND, excluding the following maternal/fetal risk factors:

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Low Risk Definition

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

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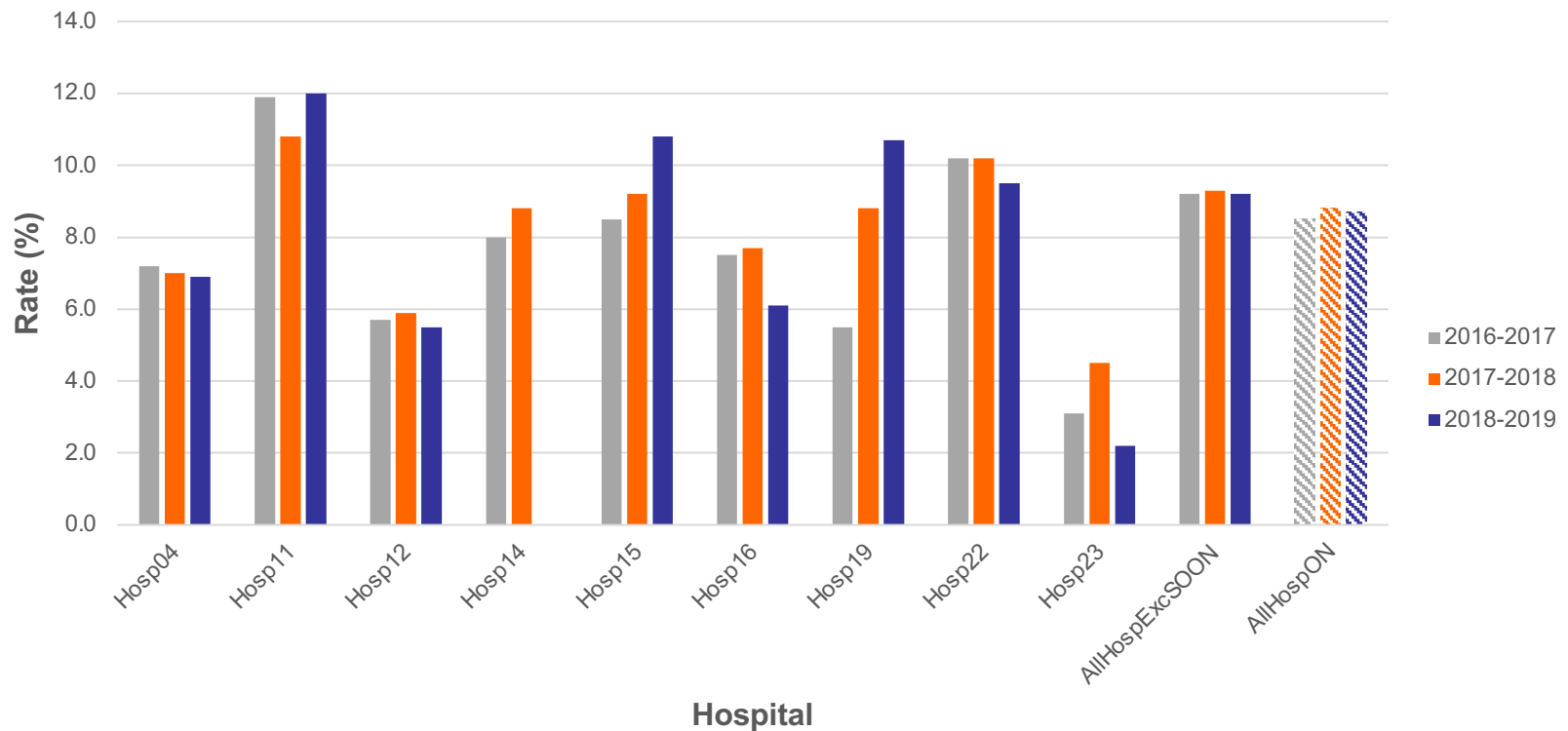## (SOON, 2018/2019)
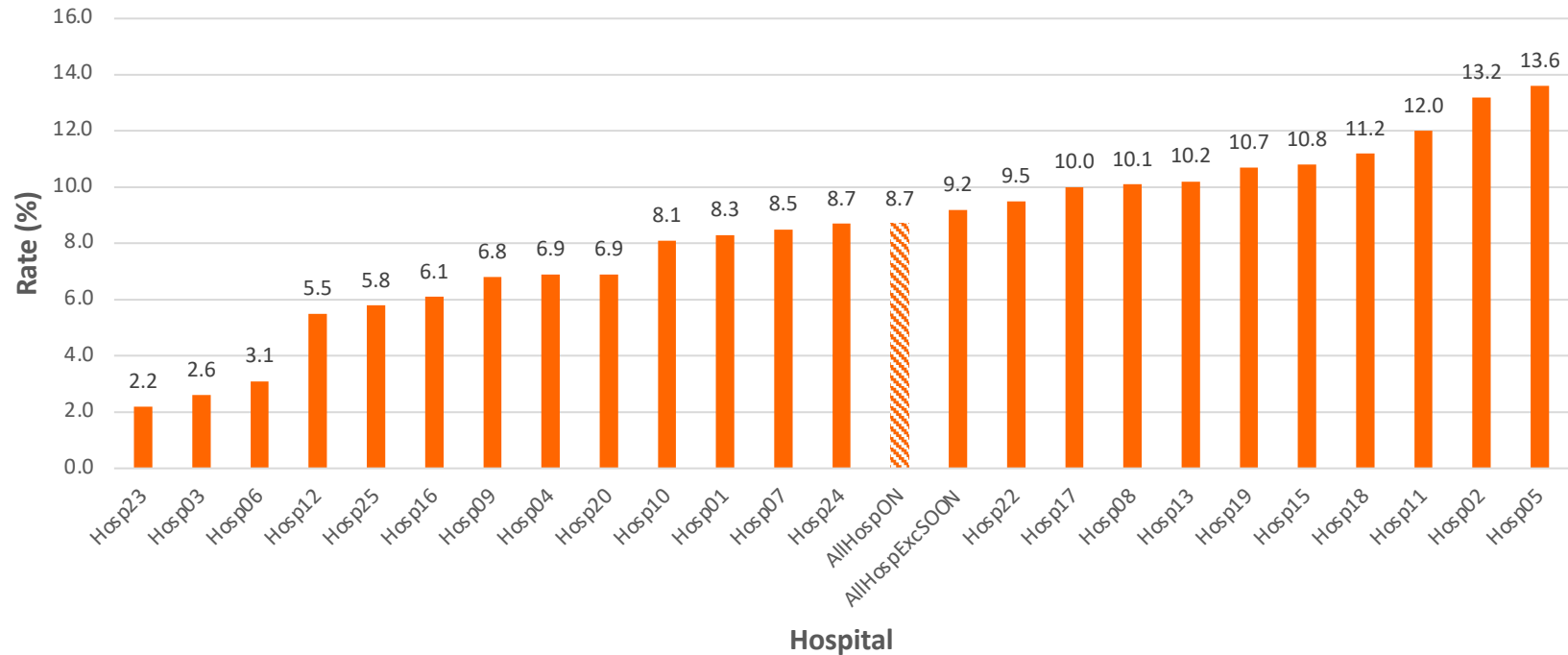
Data Source: BORN Ontario 2018/2019
Definition of Indicator: The rate of term infant NICU/SCN admissions, by SOON hospital, expressed as a percentage of all live term (≥37 weeks gestation) births, excluding infants with at least one confirmed major sentinel congenital anomaly.

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Indicator 1: Rate of Admission to NICU at Term
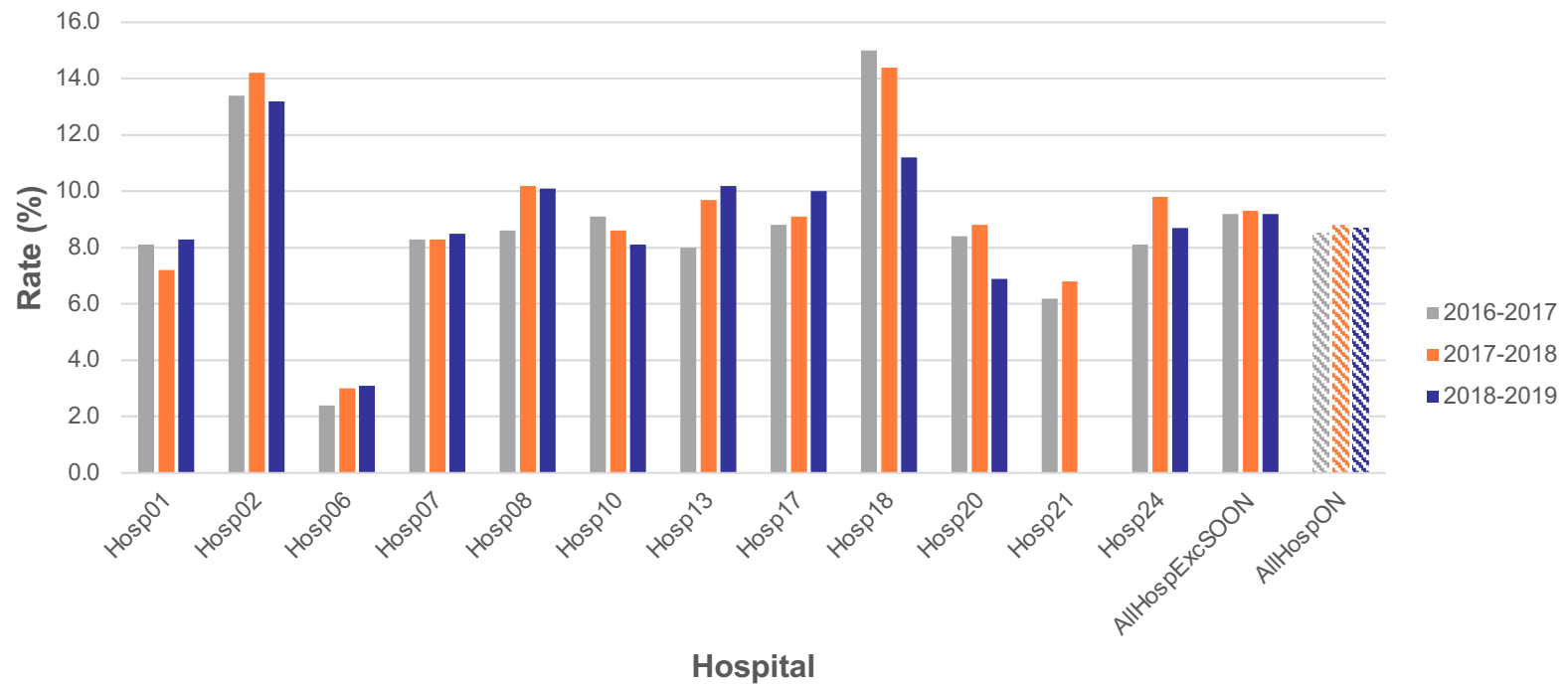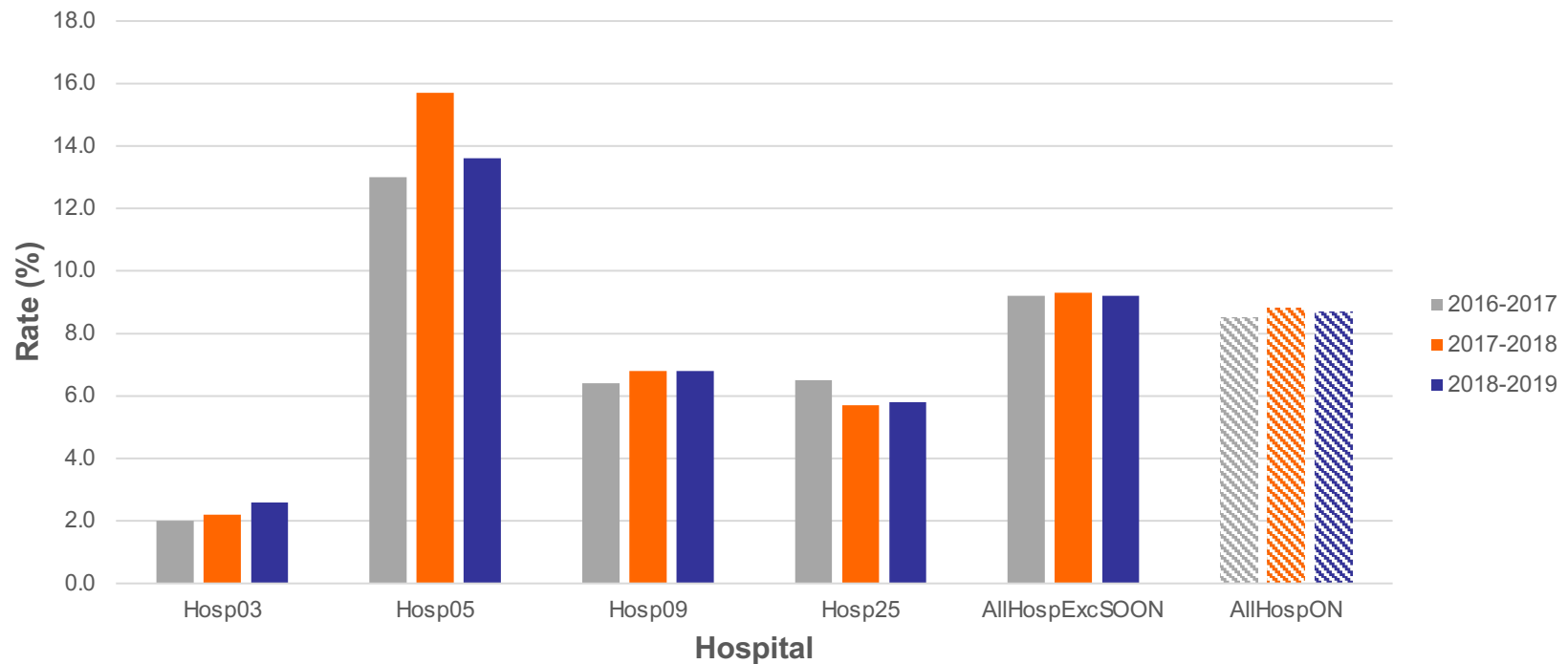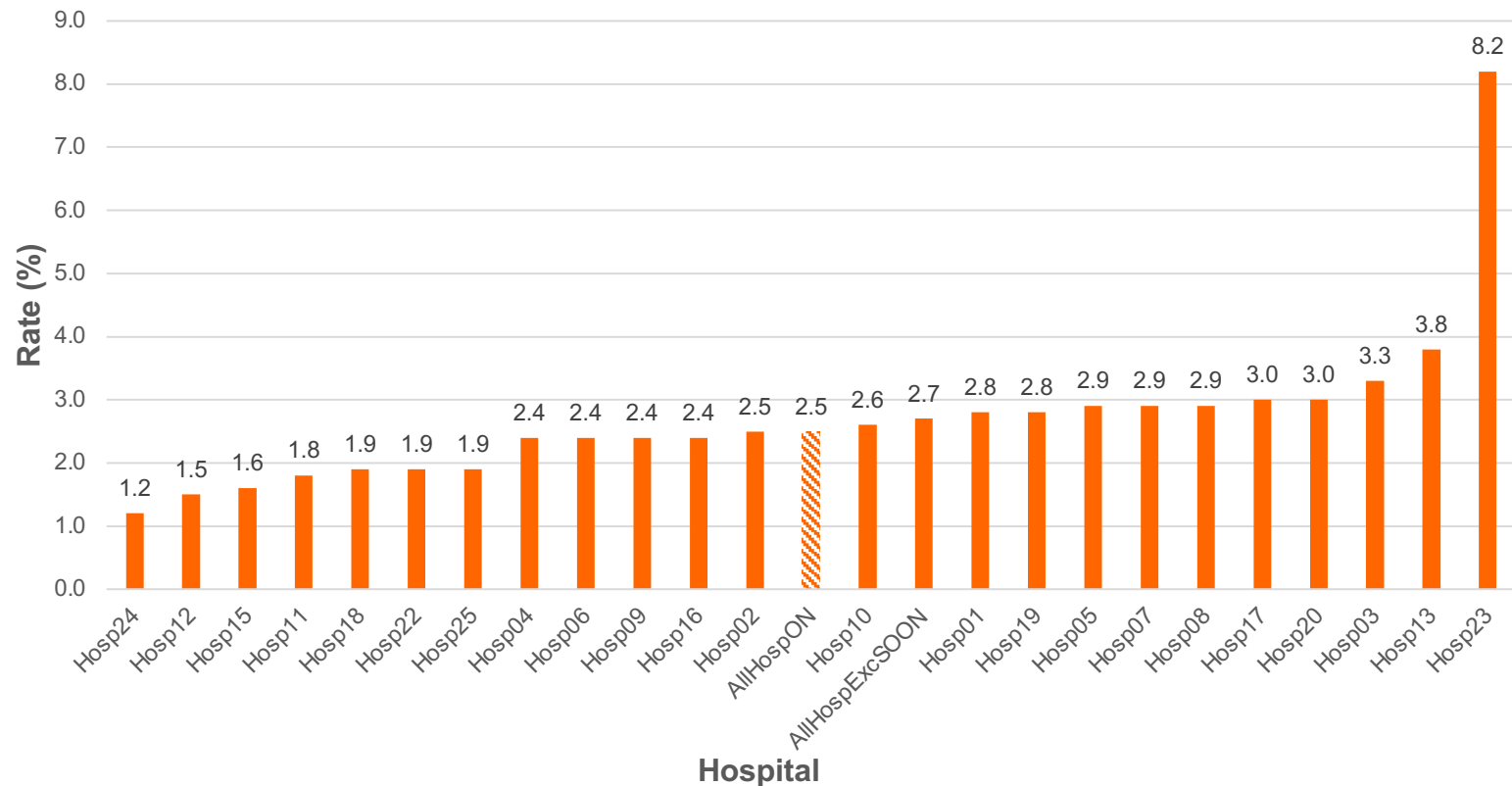
(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

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

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Indicator 1: Rate of Admission to NICU at Term
(SOON level IIc, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 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.

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Indicator 1: Rate of Admission to NICU at Term
(SOON level III, 2016/2017 – 2018/2019)

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

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Indicator 2: Rate of Cesarean Section at 2nd Stage

(SOON, 2018/2019)

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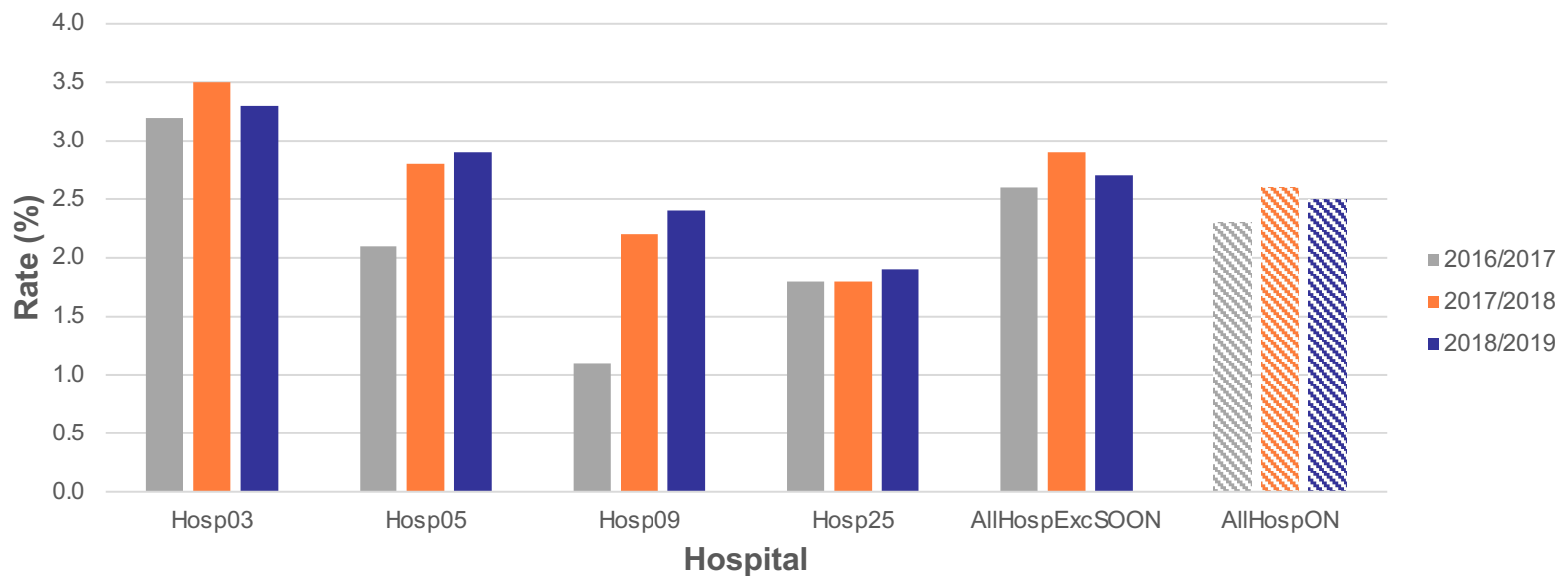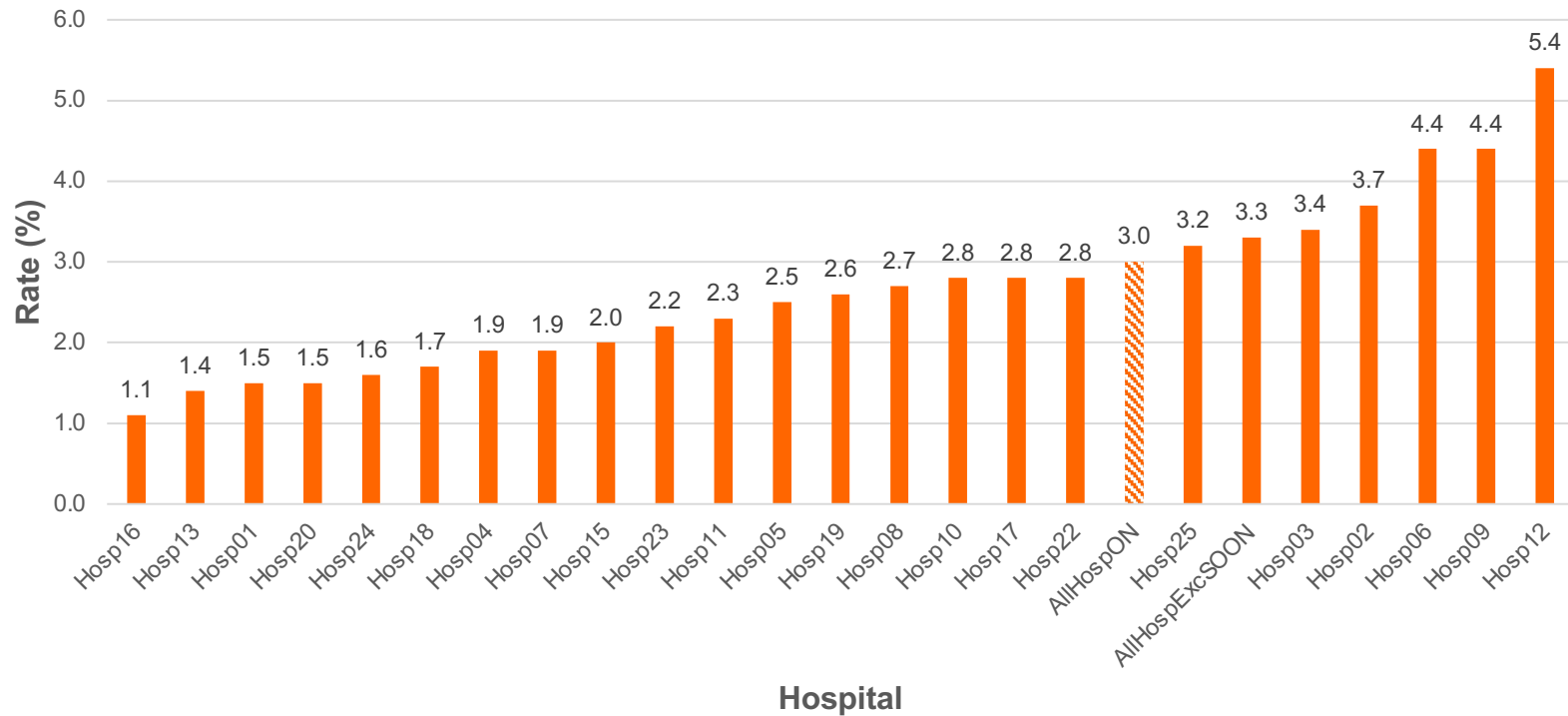(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)
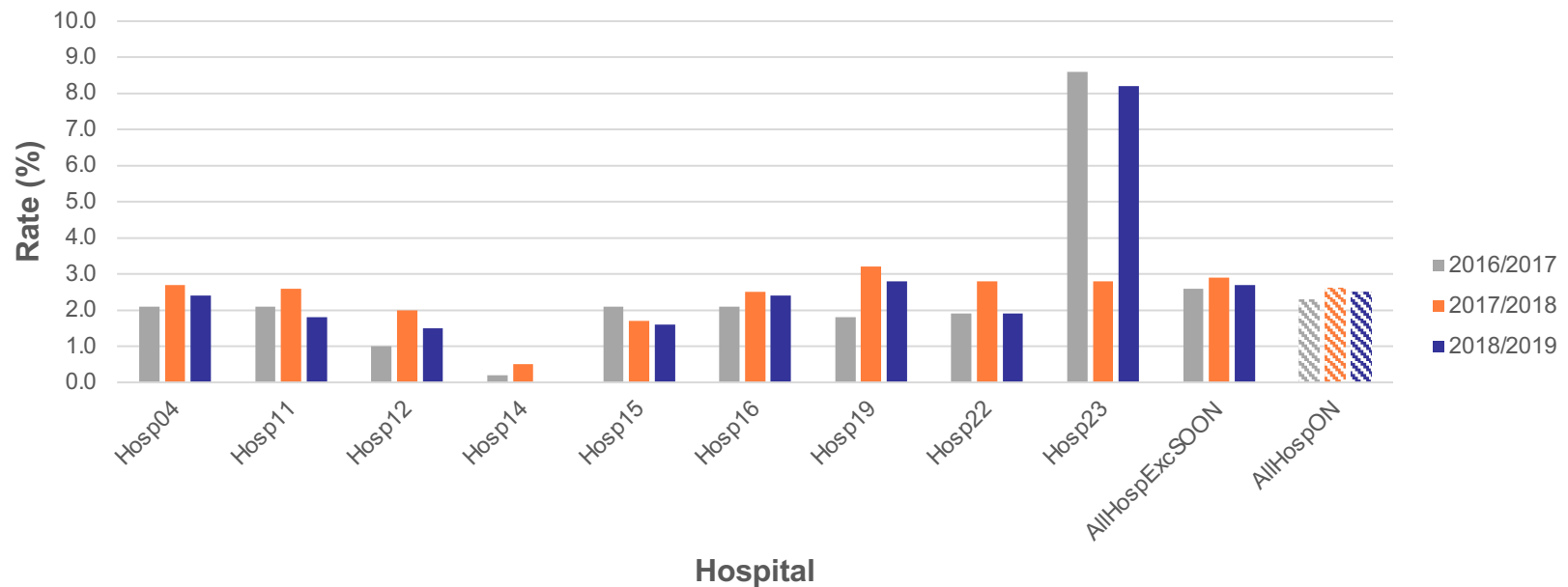
Data Source: BORN Ontario 2016/2017 – 2018/2019
Definition of Indicator: The rate of women who had a cesarean section at 2nd stage of labour and full dilation, expressed as a percentage of all live deliveries at ≥ 34 weeks' gestational age in Ontario, by level I, IIa, IIb SOON hospital and fiscal year.

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Indicator 2: Rate of Cesarean Section at 2nd Stage

(SOON level IIc, 2016/2017 – 2018/2019)

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Indicator 2: Rate of Cesarean Section at 2nd Stage
(SOON level III, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 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.

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Indicator 3: Rate of Postpartum Hemorrhage (PPH)
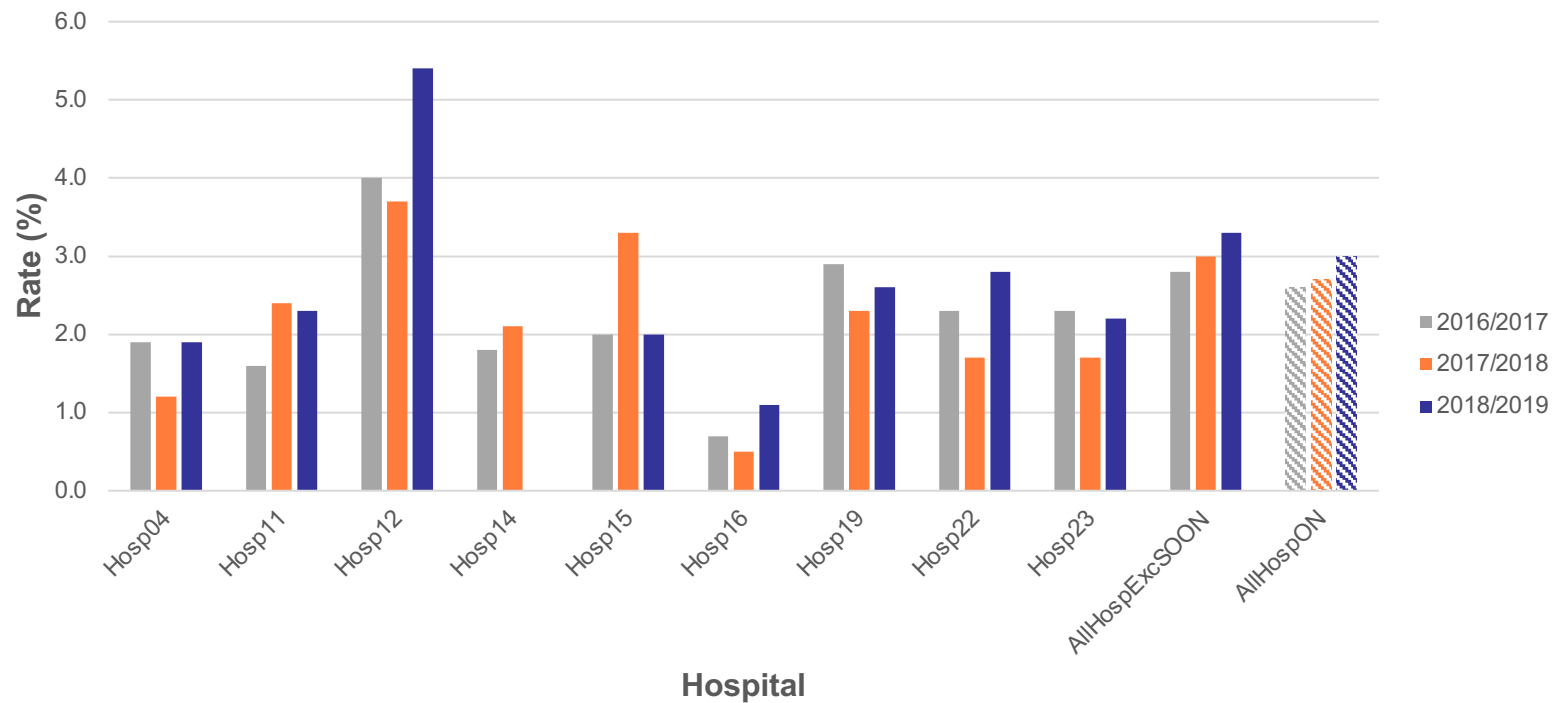## (SOON, 2018/2019)
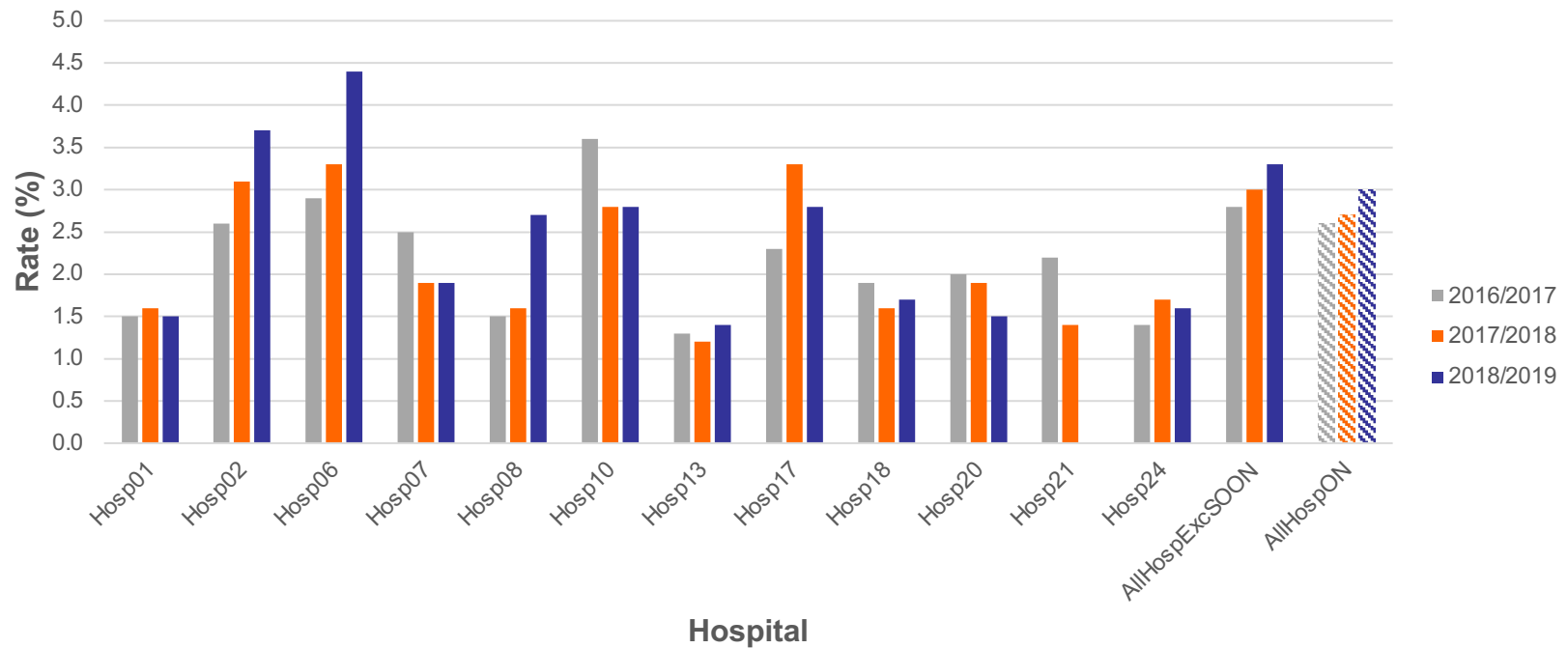

Data Source: BORN Ontario 2018/2019
Definition of Indicator: The rate of women who had a PPH as a complication, expressed as a percentage of all live deliveries at ≥ 24 weeks' gestational age in Ontario, by SOON hospital.

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Indicator 3: Rate of Postpartum Hemorrhage (PPH)

(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

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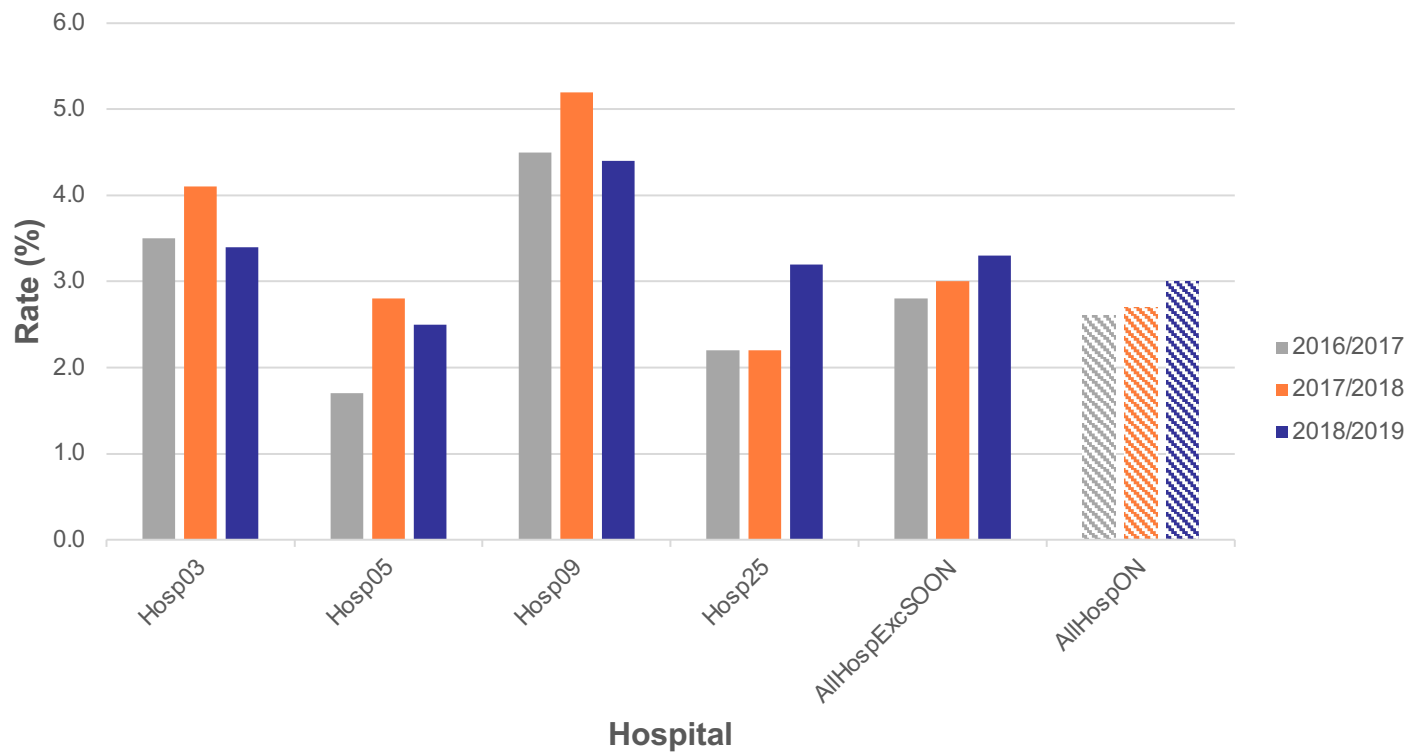## (SOON level IIc, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 2016/2017 – 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 level IIc SOON hospital and fiscal year.

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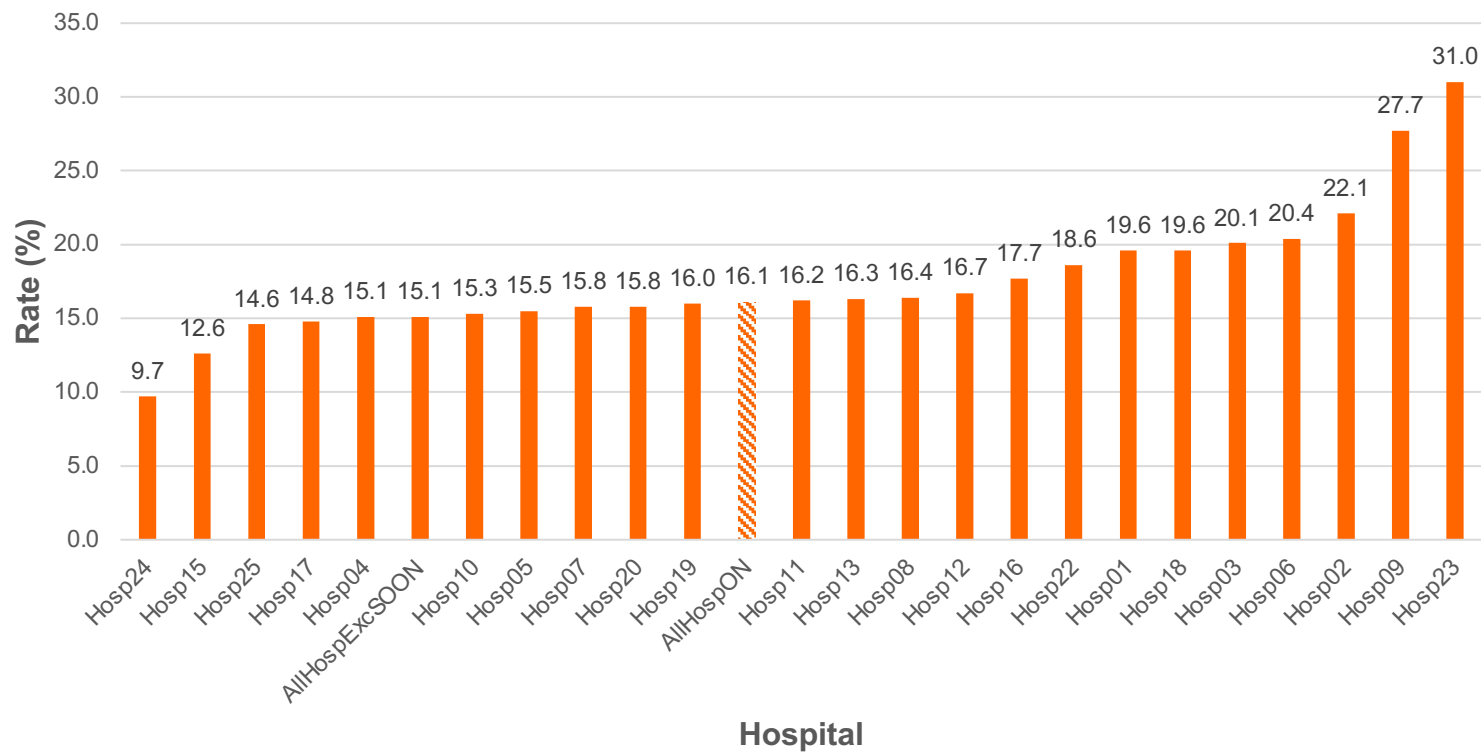## (SOON level III, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 2016/2017 – 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 level III SOON hospital and fiscal year.

Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women
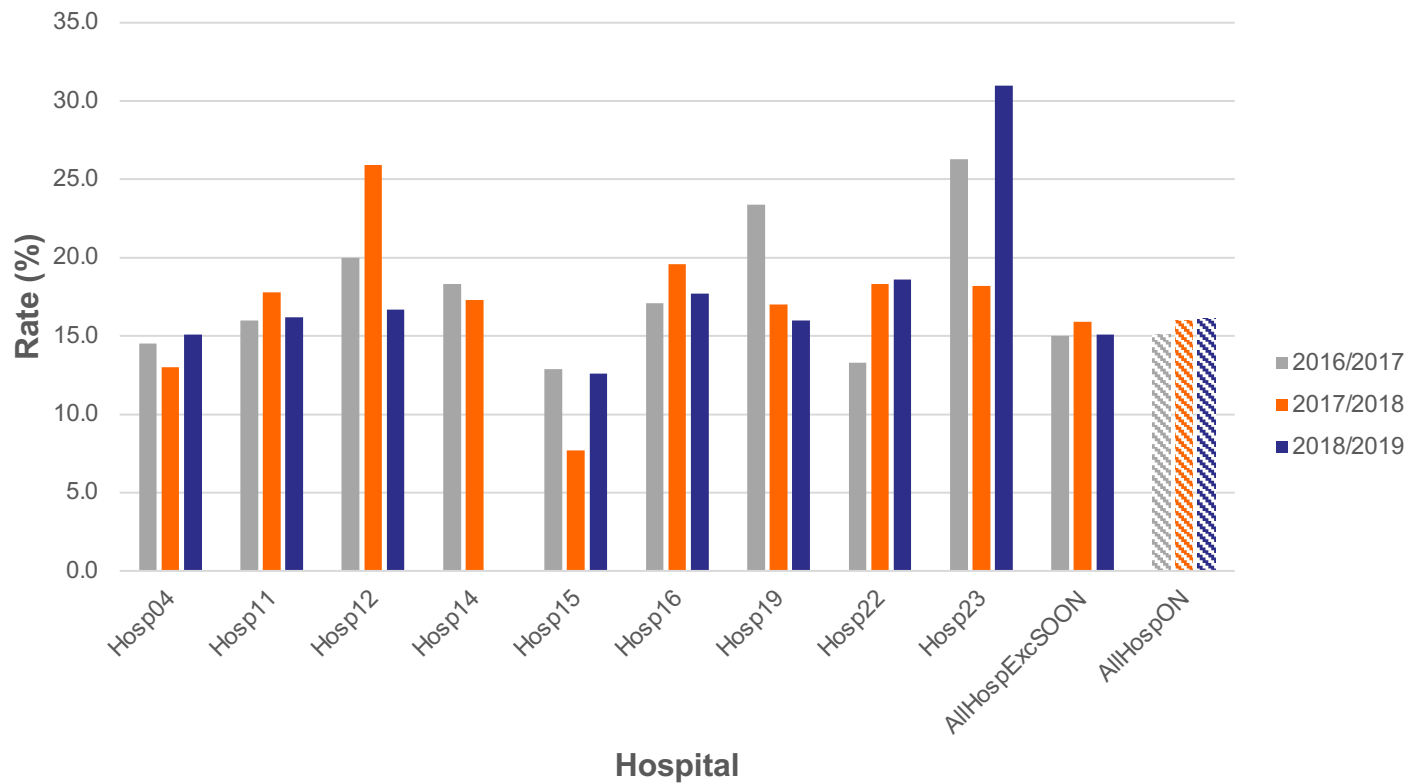
(SOON, 2018/2019)

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.

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Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women

(SOON level I/IIa/IIb, 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.

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Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women

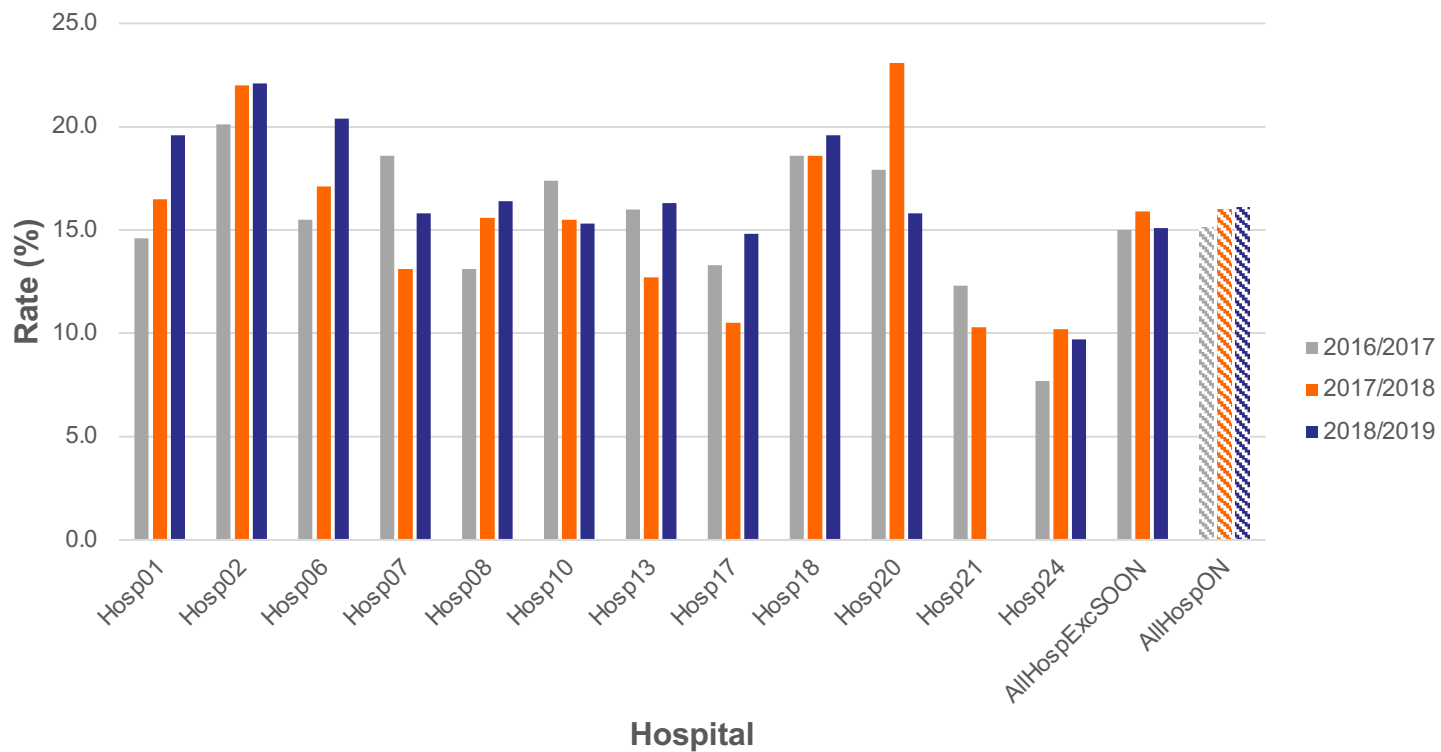## (SOON level IIc, 2016/2017 – 2018/2019)

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.

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Indicator 4: Rate of Cesarean Section in Low-Risk Nulliparous Women

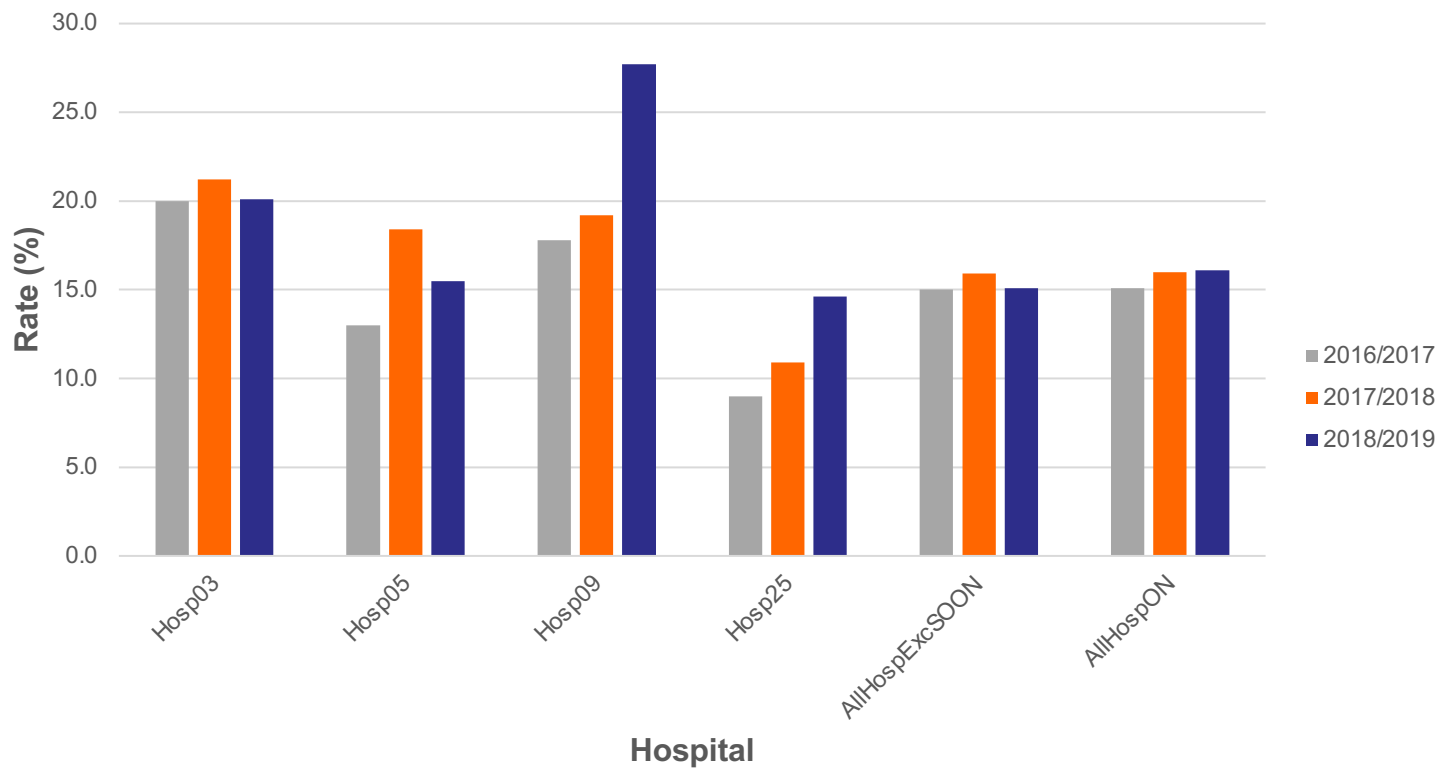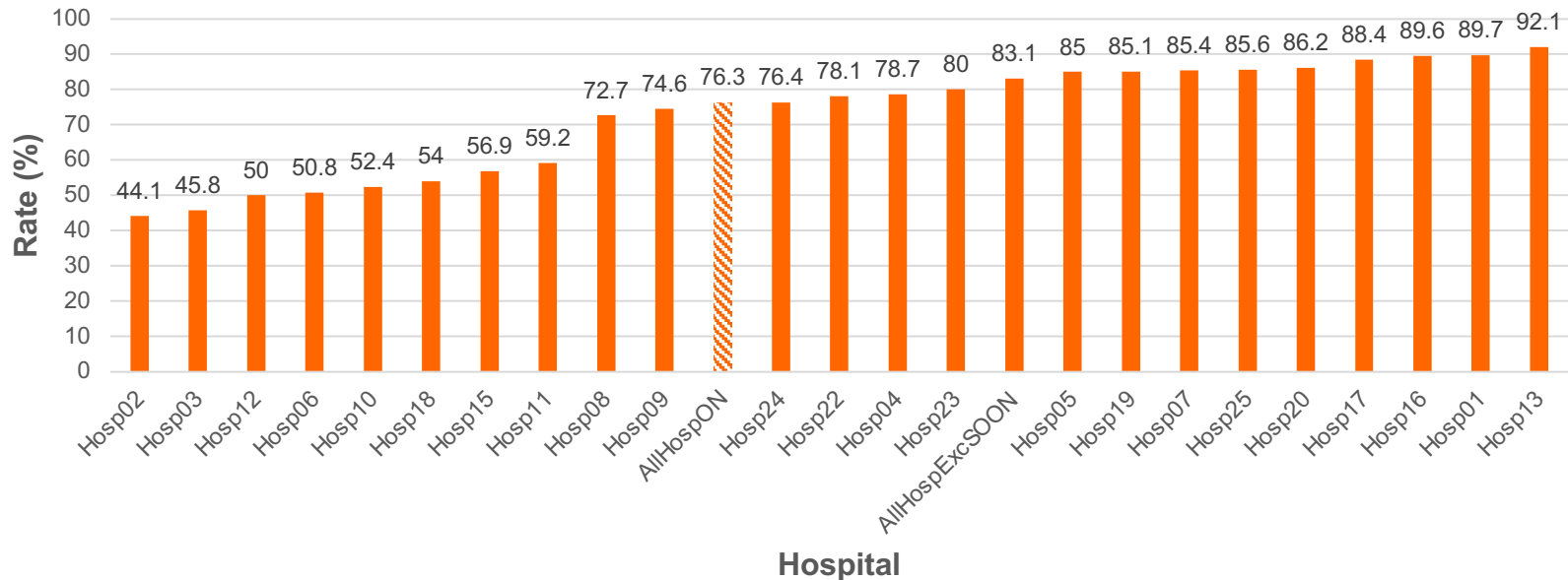## (SOON level III, 2016/2017 – 2018/2019)

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.

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Indicator 5: Rate of women eligible for vaginal birth after cesarean (VBAC)
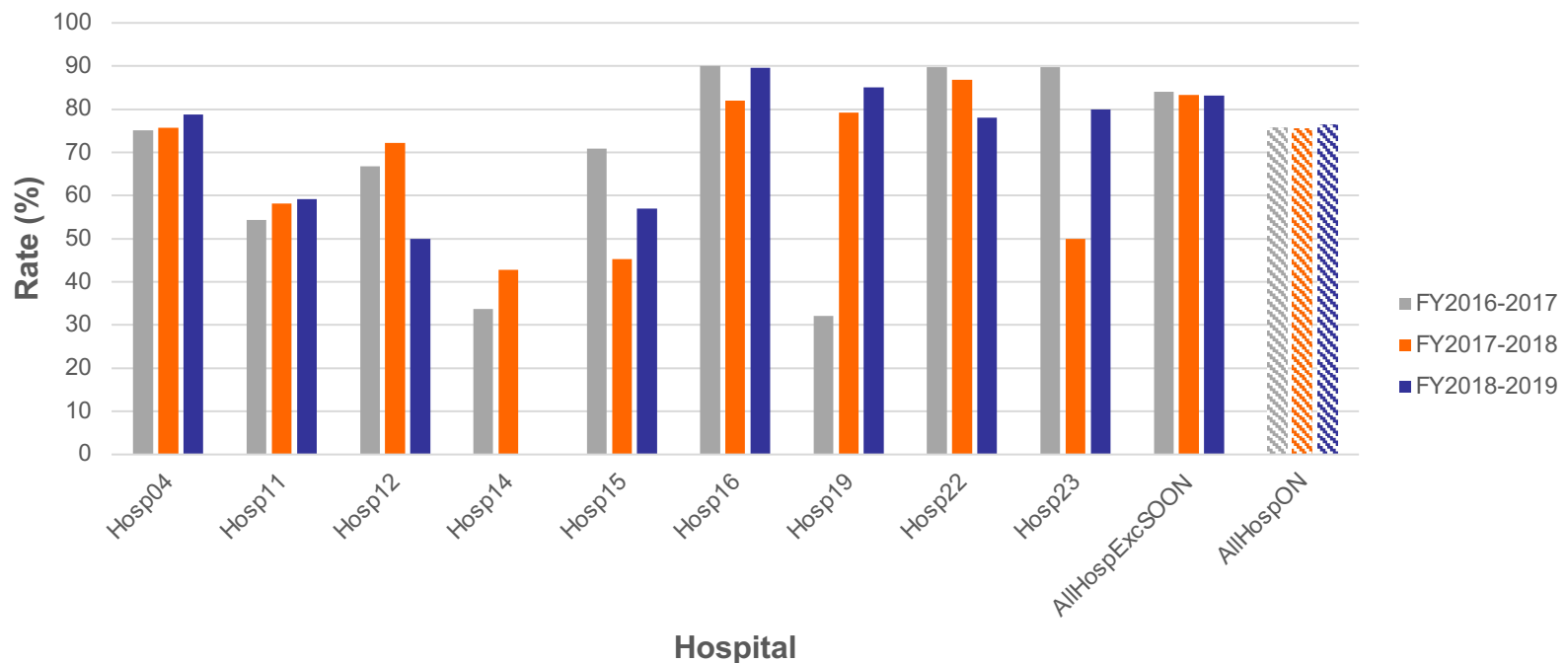## (SOON, 2018/2019)

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.

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Indicator 5: Rate of women eligible for vaginal birth after cesarean (VBAC)
(SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 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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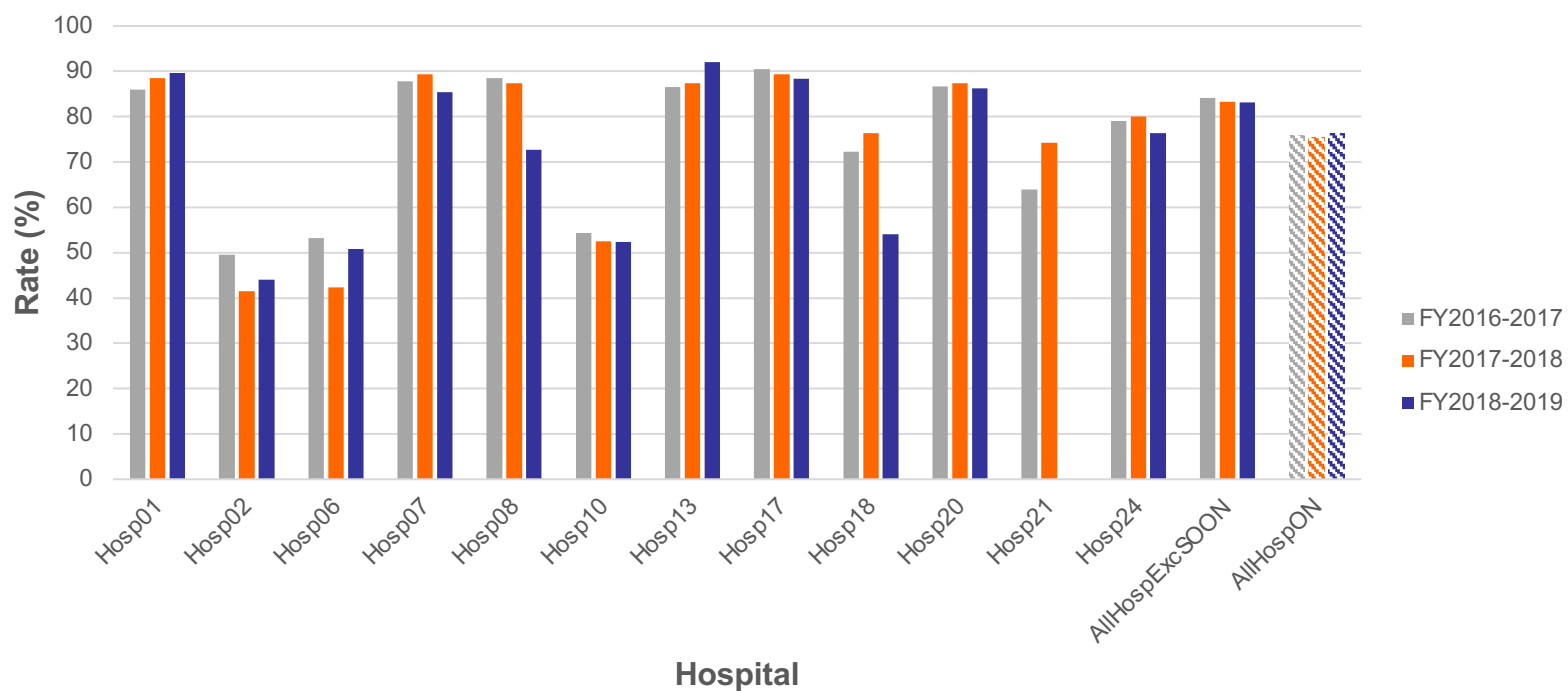## (SOON level IIc, 2016/2017 – 2018/2019)

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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 IIc 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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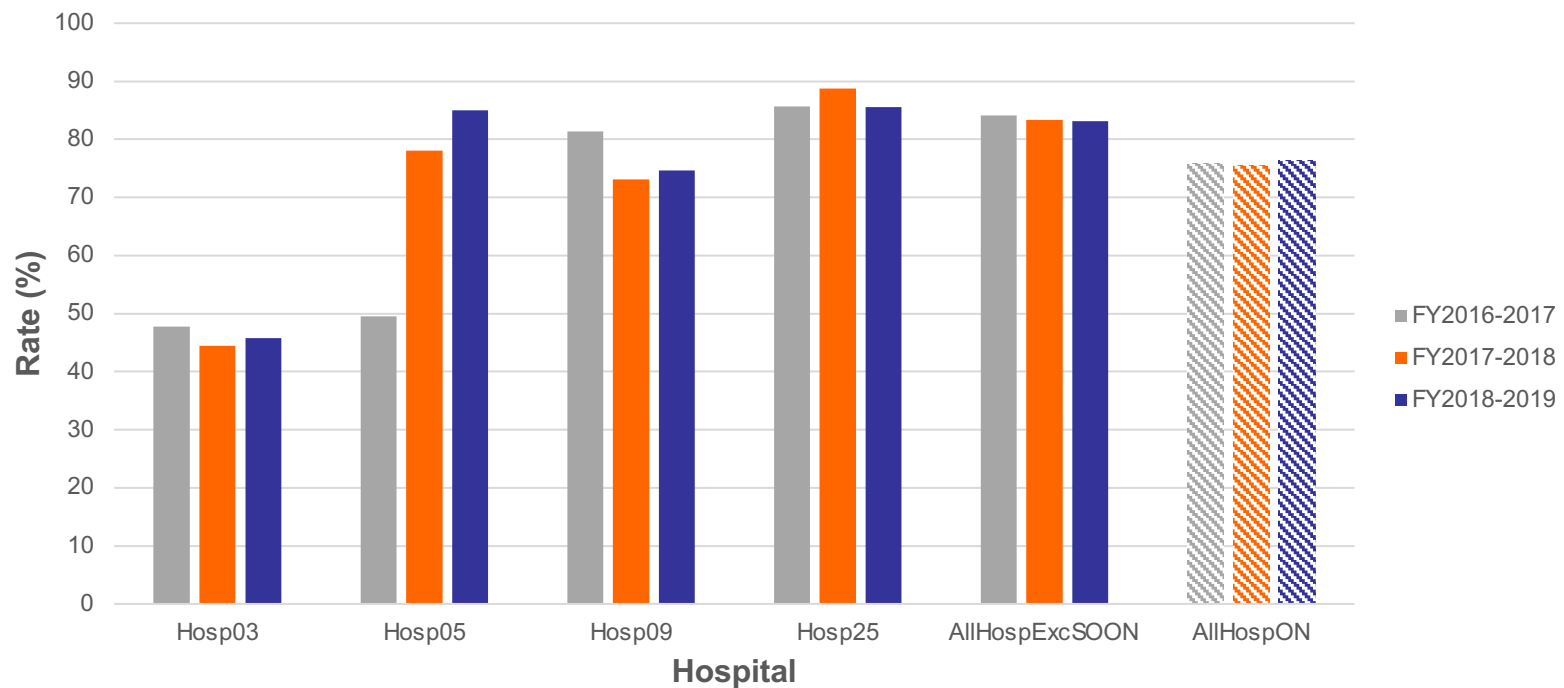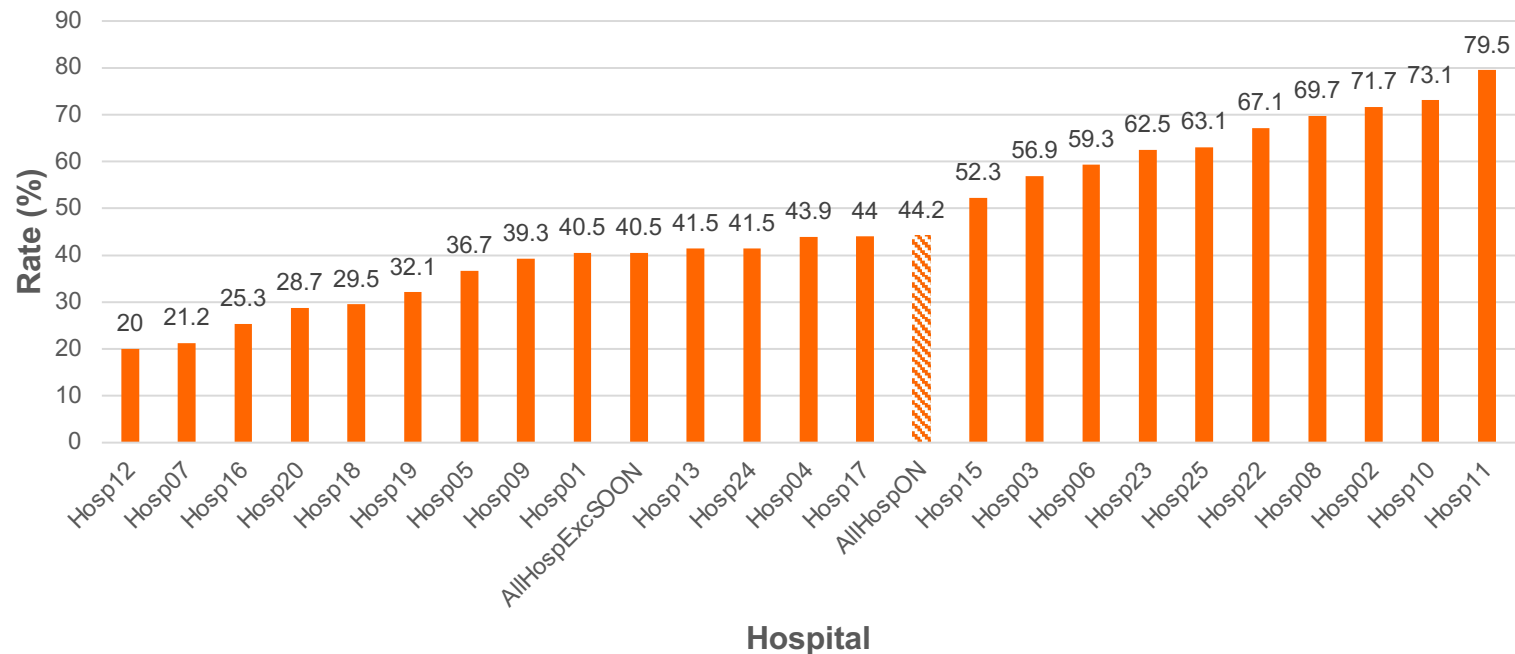## (SOON level III, 2016/2017 – 2018/2019)

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Indicator 6: Rate of Attempted VBAC in Eligible Women with 1 Previous Cesarean Section
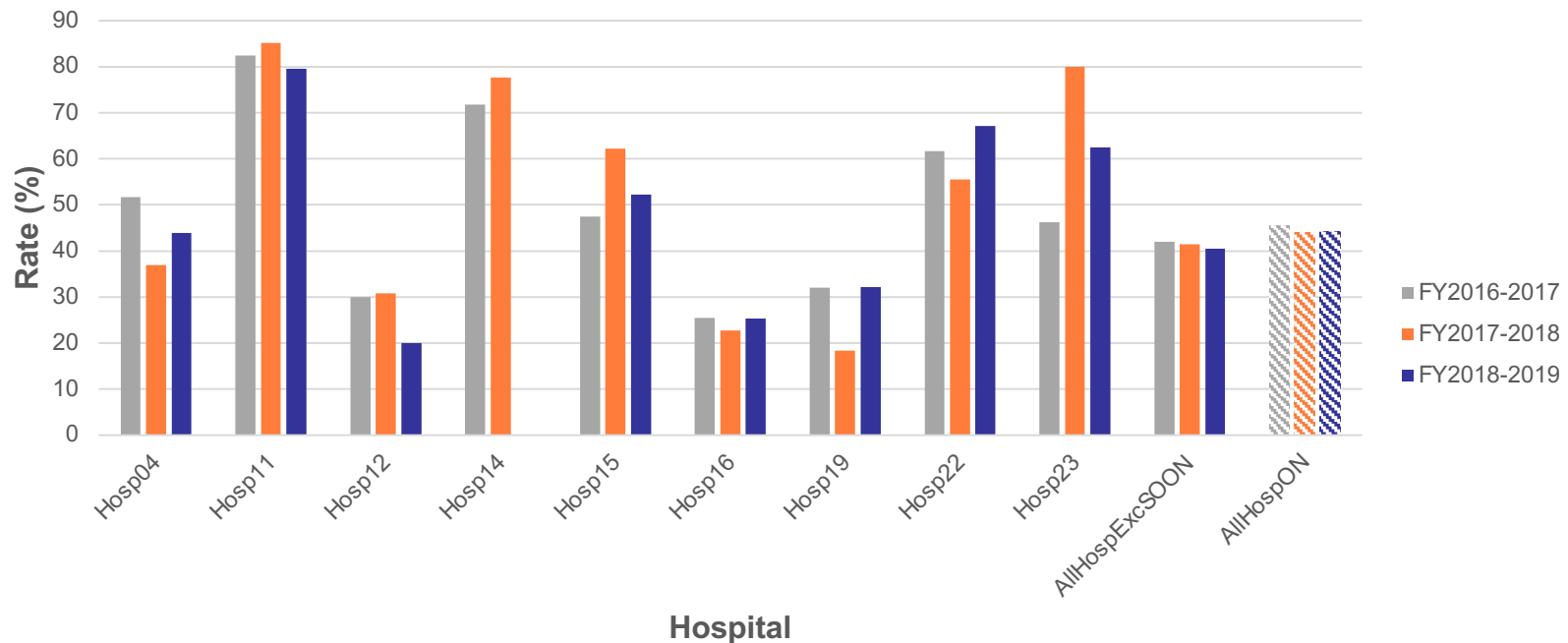
(SOON, 2018/2019)

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.

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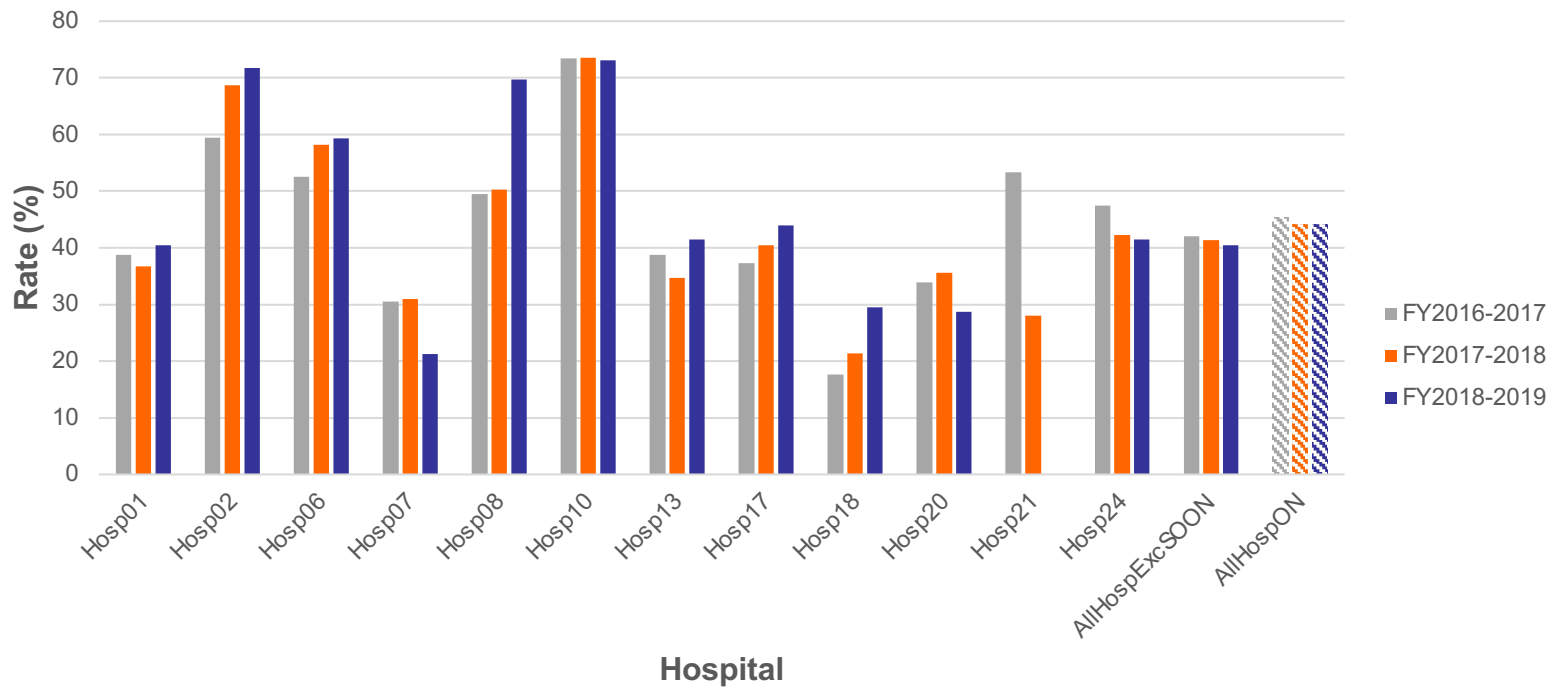## (SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 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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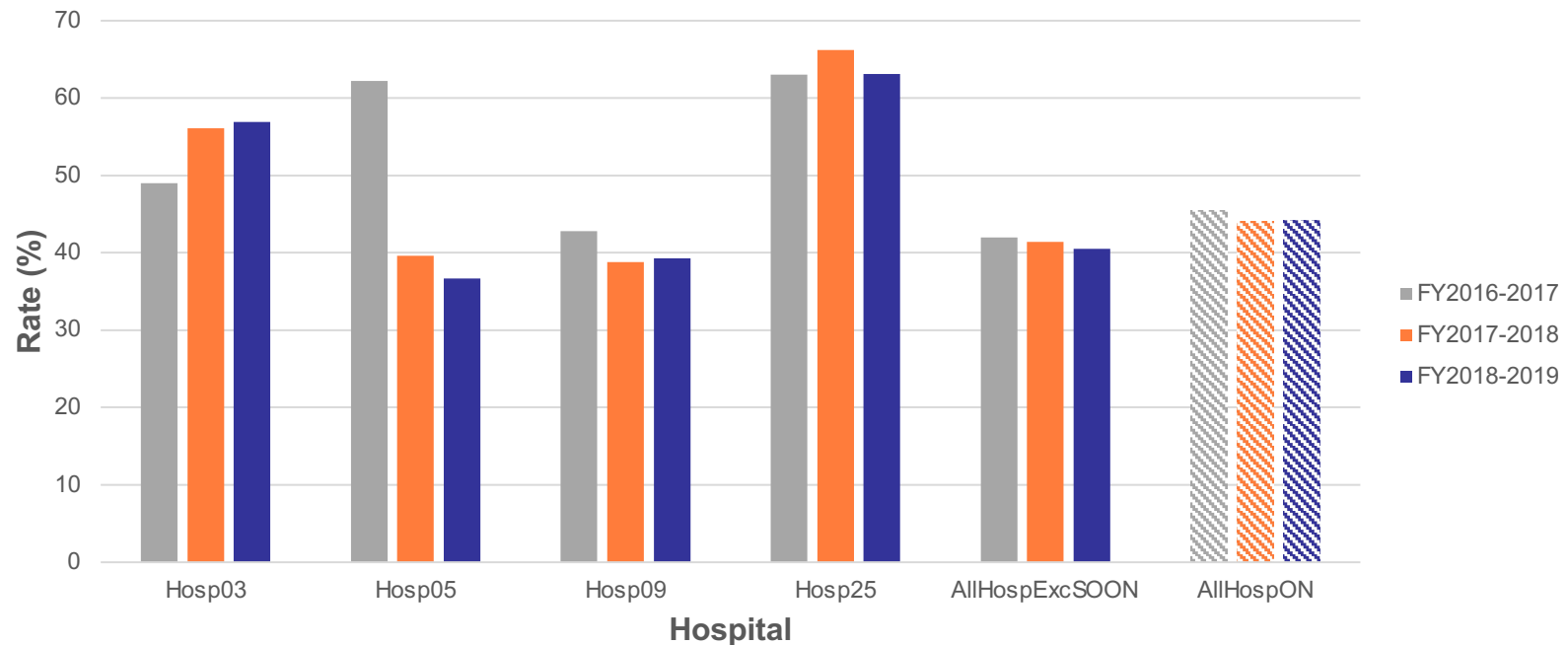
(SOON level IIc, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 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 IIc 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
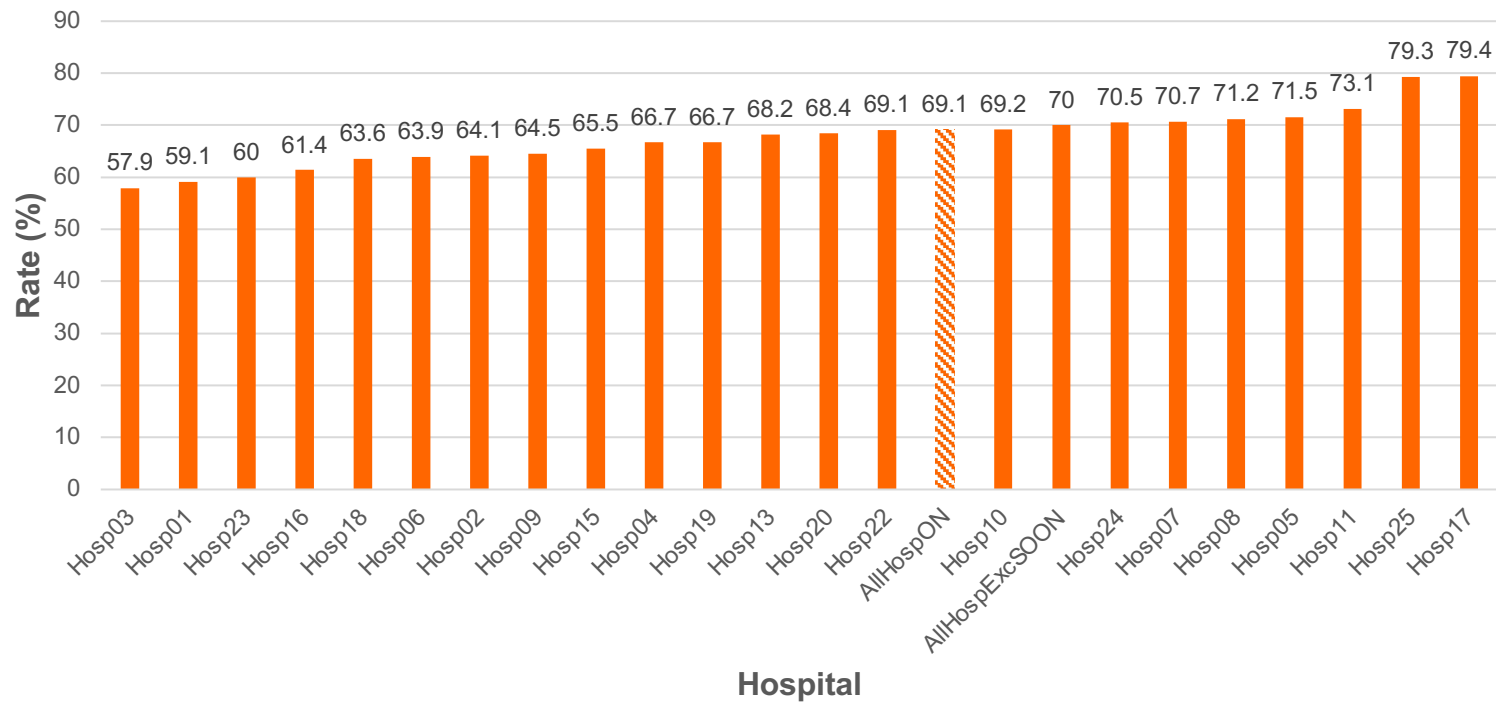
(SOON level III, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 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 III 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
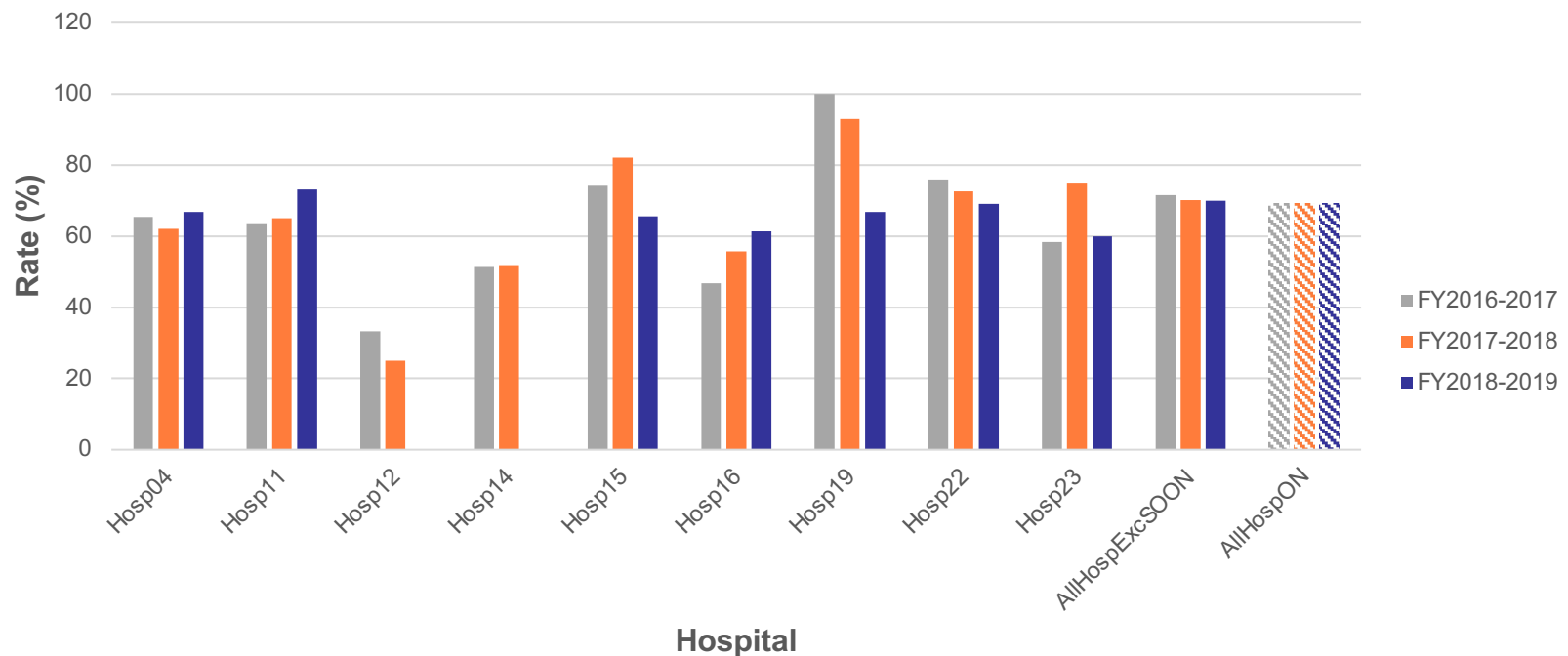
(SOON, 2018/2019)

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.

Indicator 7: Successful VBAC Rate in Attempted Women with 1 Previous Cesarean Section

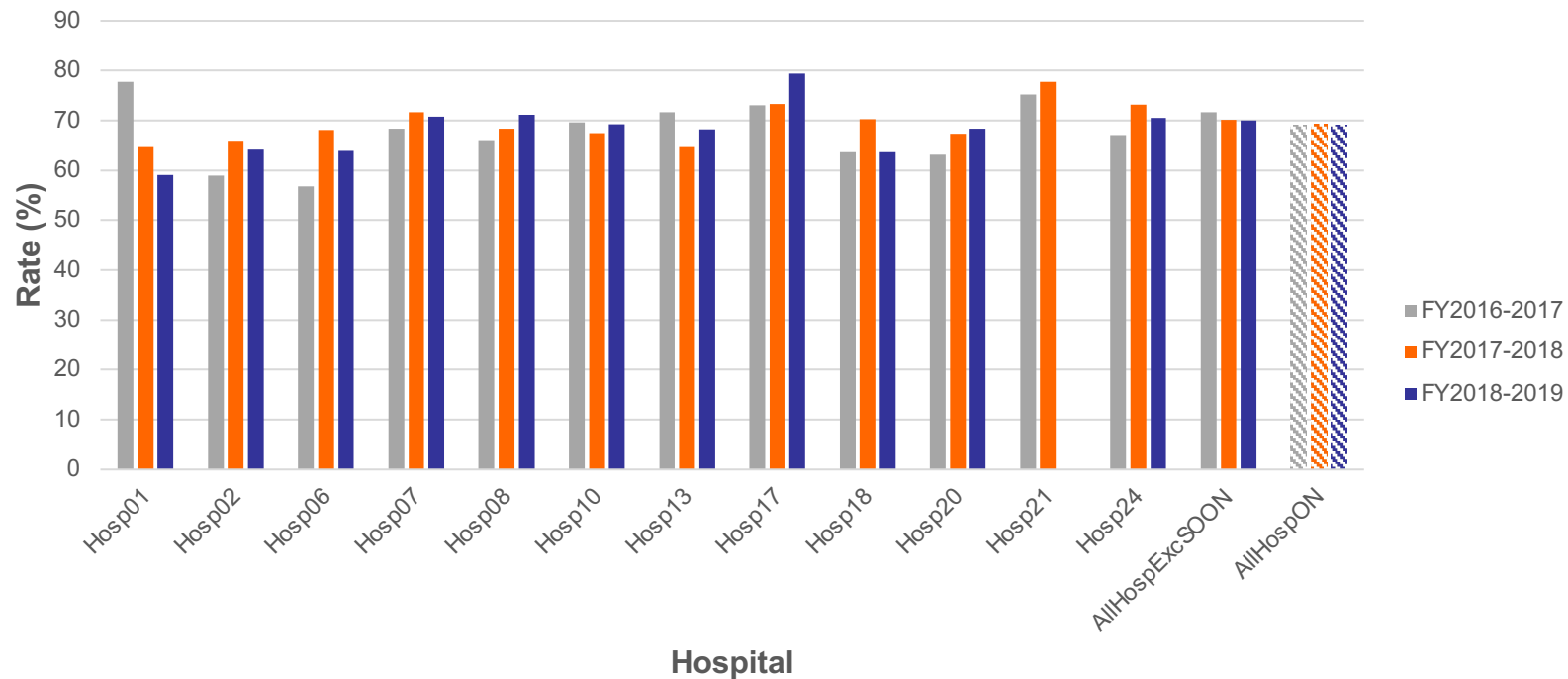## (SOON level I/IIa/IIb, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 2016/2017 – 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 level I, IIa, IIb SOON hospital and fiscal year. 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
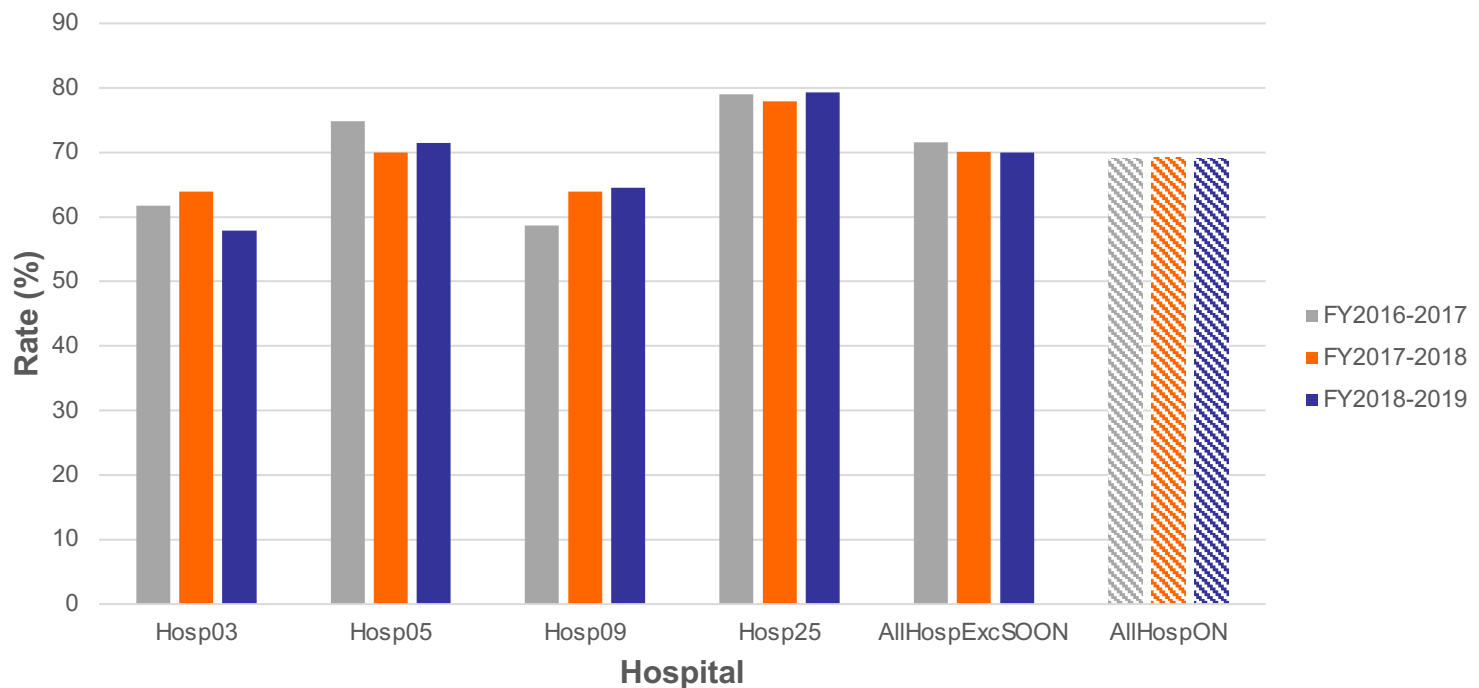
(SOON level IIc, 2016/2017 – 2018/2019)

Data Source: BORN Ontario 2016/2017 – 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 level IIc SOON hospital and fiscal year. 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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