Text Description for PCPI eSpecification

Clinical Topic	Maternity Care
Measure Title	**Cesarean Delivery for Nulliparous (NTSV) Women (Appropriate Use)**
Measure #	**MC-6**
Measure Description	Percentage of nulliparous patients, regardless of age, who gave birth during a 12-month period to a live singleton in vertex presentation at or beyond 37 weeks of gestation who had a cesarean delivery
Measurement Period	12 consecutive months
Initial Patient Population	All nulliparous patients, regardless of age, who gave birth during a 12-month period to a live singleton in vertex presentation at or beyond 37 weeks of gestation
Denominator Statement	Equals Initlal Patient Population and gave birth to a live singleton in vertex presentation
Denominator Exclusions	Patients who were participating in a clinical trial during the measurement period
Numerator Statement	Patients who had a cesarean delivery
Denominator Exceptions	None

Version 2.0

MATERNITY CARE
Data Requirements for PCPI eSpecification

Measure #6: Cesarean Delivery for Nulliparous (NTSV) Women

Measure Component	QDM* Standard Category	QDM* Data Type	Value Set Name	Standard Terminology	OID	Constraints	Comments/Rationale
Supplemental Data Elements	Individual Characteristic	Patient Characteristic	Age at Delivery	LOINC	2.16.840.1.113883.3.526.2.1434	during [Attribute, stop datetime: Date of Delivery]	There are no restrictions on age for inclusion in the measure; this data element is included for result stratification to identify disparities.
	Individual Characteristic	Patient Characteristic	Gender	HL7 (2.16.840.1.113883.5.1)	2.16.840.1.113883.1.11.1	during measurement period	This data element is collected for the purpose of stratifying results in an effort to highlight disparities.
	Individual Characteristic	Patient Characteristic	Race	CDC	2.16.840.1.114222.4.11.836	during measurement period	This data element is collected for the purpose of stratifying results in an effort to highlight disparities.
	Individual Characteristic	Patient Characteristic	Ethnicity	CDC	2.16.840.1.114222.4.11.837	during measurement period	This data element is collected for the purpose of stratifying results in an effort to highlight disparities.
	Individual Characteristic	Patient Characteristic	Preferred Language	CDC	2.16.840.1.114222.4.11.831	during measurement period	This data element is collected for the purpose of stratifying results in an effort to highlight disparities.
	Individual Characteristic	Patient Characteristic	Payer	Source of Payment Typology	2.16.840.1.113883.221.5	during measurement period	This data element is collected for the purpose of stratifying results in an effort to highlight disparities.
	Individual Characteristic	Patient Characteristic	Gender of Newborn	HL7 (2.16.840.1.113883.5.1)	2.16.840.1.113883.1.11.1	during [Attribute, stop datetime: Date of Delivery]	This data element is collected for the purpose of stratifying results in an effort to highlight disparities. This data will be found in the mothers record, specifically found in the delivery record.
	Attribute	Attribute: Result	Present "X"	n/a	n/a	n/a	This attribute is applied to the value set 'Gender of Newborn'.
Initial Patient Population	Measure Timing	n/a	Measurement Start Date	n/a	n/a	TBD by measure implementer	
	Measure Timing	n/a	Measurement End Date	n/a	n/a	TBD by measure implementer	
	Physical Exam	Physical Exam, Finding	Gestational Age	GROUPING LOINC	2.16.840.1.113883.3.526.3.1347 2.16.840.1.113883.3.526.2.1419	during [Attribute, stop datetime: Date of Delivery]	
	Attribute	Attribute: Result	value >= 37 weeks	n/a	n/a	n/a	This attribute is applied to the value set titled 'Gestational Age'.
	Procedure	Procedure, Performed	Vaginal Delivery	GROUPING CPT SNOMED-CT	2.16.840.1.113883.3.526.3.1341 2.16.840.1.113883.3.526.2.1411 2.16.840.1.113883.3.526.2.1412	during measurement period	
	Procedure	Procedure, Performed	Cesarean Section Delivery	GROUPING CPT SNOMED-CT	2.16.840.1.113883.3.526.3.1342 2.16.840.1.113883.3.526.2.1413 2.16.840.1.113883.3.526.2.1414	during measurement period	
	Attribute	Attribute: stop datetime	Date of Delivery	n/a	n/a	n/a	This data element is the date associated with "Procedure, Performed: Vaginal Delivery" or "Procedure, Performed: Cesarean Section Delivery".
Denominator	Equals Initial Patient Population and						
	Condition / Diagnosis / Problem	Diagnosis, Active	Single Live Birth	GROUPING ICD-9-CM ICD-10-CM SNOMED-CT	2.16.840.1.113883.3.526.3.1367 2.16.840.1.113883.3.526.2.1449 2.16.840.1.113883.3.526.2.1450 2.16.840.1.113883.3.526.2.1451	during [Attribute, stop datetime: Date of Delivery]	This value set will only include live singletons.
	Condition / Diagnosis / Problem	Diagnosis, Active	Vertex Fetal Presentation	GROUPING SNOMED-CT	2.16.840.1.113883.3.526.3.1386 2.16.840.1.113883.3.526.2.1485	during [Attribute, stop datetime: Date of Delivery]	
	Physical Exam	Physical Exam, Finding	Parity	GROUPING LOINC	2.16.840.1.113883.3.526.3.1387 2.16.840.1.113883.3.526.2.1486	<= 44 weeks starts before or during [Attribute, stop datetime: Date of Delivery]	
	Attribute	Attribute: Result	value = 0	n/a	n/a	n/a	This attribute is applied to the value set titled 'Parity'. A value of zero indicates nulliparous.
	Physical Exam	Physical Exam, Finding	Nulliparous	GROUPING SNOMED-CT	2.16.840.1.113883.3.526.3.1388 2.16.840.1.113883.3.526.2.1487	<= 44 weeks starts before or during [Attribute, stop datetime: Date of Delivery]	
Denominator Exclusions	Individual Characteristic	Patient Characteristic	Clinical Trial Participant	GROUPING SNOMED-CT	2.16.840.1.113883.3.526.03.1125 2.16.840.1.113883.3.526.02.1224	<= 44 weeks starts before or during [Attribute, stop datetime: Date of Delivery]	These patients applied as a denominator exclusion.
Numerator	Procedure	Procedure, Performed	Cesarean Section Delivery	GROUPING CPT SNOMED-CT	2.16.840.1.113883.3.526.3.1342 2.16.840.1.113883.3.526.2.1413 2.16.840.1.113883.3.526.2.1414	during [Attribute, stop datetime: Date of Delivery]	
Denominator Exceptions	No Valid Denominator Exceptions						

For this measure, a lower score indicates higher quality.

Measure Performance Rate Calculation:

$$\frac{N}{(D - EXCL - EXCEP)} = \text{Performance Rate}$$

The PCPI strongly recommends that exception rates also be computed and reported alongside performance rates as follows:

Measure Exception Rate Calculation:

$$\frac{EXCEP}{(D - EXCL)} = \text{Exception Rate}$$

Exception Types:
EXCEP= E1 (Medical Exceptions) + E2 (Patient Exceptions) + E3 (System Exceptions)
For patients who have more than one valid exception, only one exception should be counted when calculating the exception rate.

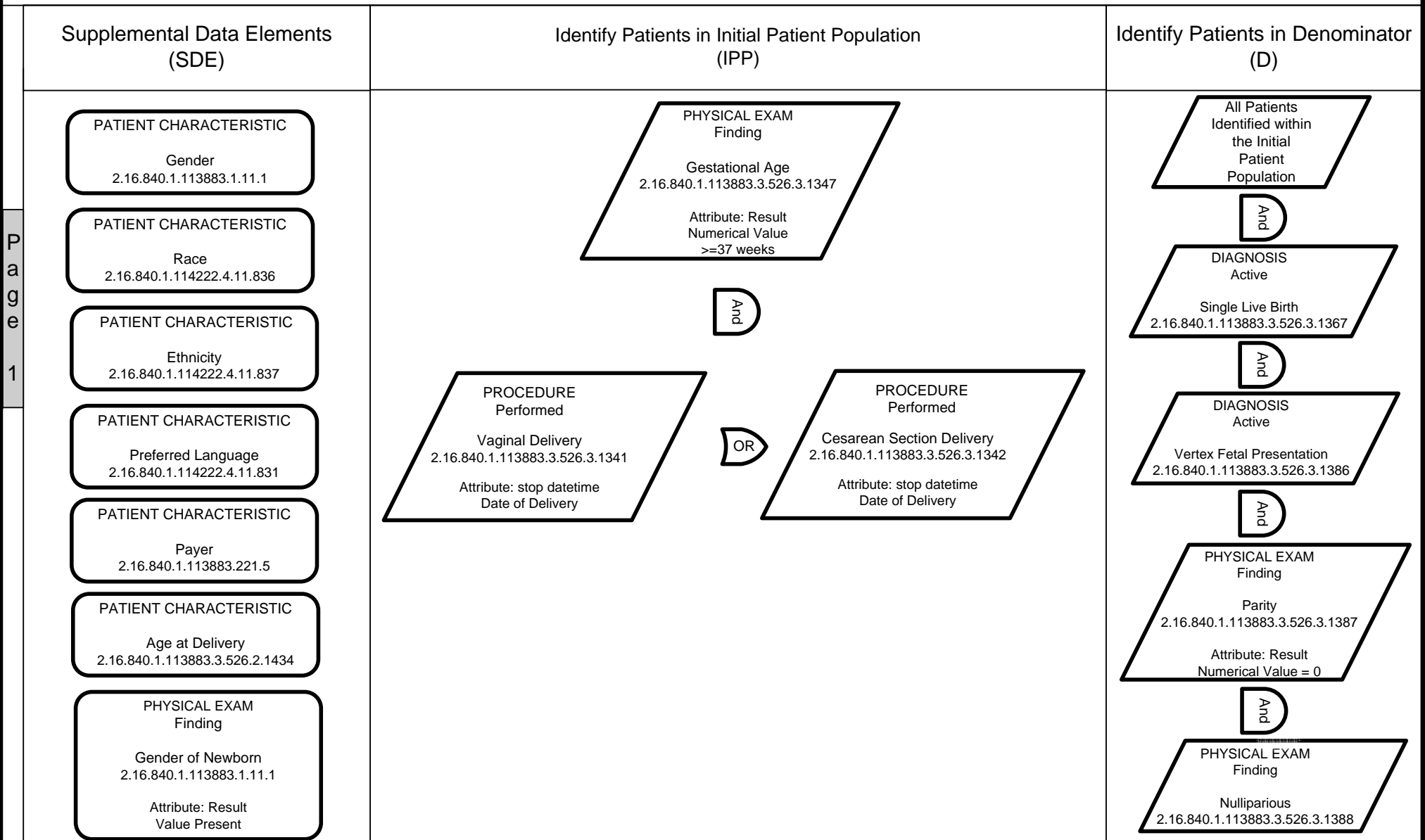| Initial Patient Population (IPP)	Denominator (D)	Exclusions (EXCL)	Numerator (N)	Exceptions (EXCEP)
Definition: The group of patients that a set of performance measures is designed to address; usually focused on a specific clinical condition (e.g., coronary artery disease, asthma). For example, a patient aged 18 years and older with a diagnosis of CAD who has at least 2 visits during the measurement period.	**Definition:** The specific group of patients for inclusion in a specific performance measure based on specific criteria (e.g., patient's age, diagnosis, prior MI). In some cases, the denominator may be identical to the initial patient population.	**Definition:** The specific group of patients who should be subtracted from the measure population and denominator before determining if the numerator criteria are met.	**Definition:** The group of patients in the denominator for whom a process or outcome of care occurs (e.g., flu vaccine received).	**Definition:** The valid reasons why patients who are included in the denominator population did not receive a process or outcome of care (described in the numerator). Patients may have Exceptions for medical reasons (e.g., patient has an egg allergy so they did not receive flu vaccine); patient reasons (e.g., patient declined flu vaccine); or system reasons (e.g., patient did not receive flu Vaccine due to vaccine shortage). These cases are subtracted from the denominator population for the performance calculation, however the number of patients with valid exceptions should be calculated and reported. This group of patients constitutes the Exception reporting population – patients for whom the numerator was not achieved and a there is a valid Exception.
Find the patients who meet the Initial Patient Population criteria (IPP)	Find the patients who qualify for the Denominator (D): From the patients within the Patient Population criteria (IPP) select those people who meet Denominator selection criteria. (In some cases the IPP and D are identical).	Find the patients who qualify for the Exclusion: (EXCL): From the patients within the Denominator criteria, select those patients who meet Exclusion criteria. The patients meeting exclusion criteria should be removed from the Denominator.	Find the patients who qualify for the Numerator (N): From the patients within the Denominator (D) criteria, select those people who meet Numerator selection criteria. Validate that the number of patients in the numerator is less than or equal to the number of patients in the denominator.	From the patients who did not meet the Numerator criteria, determine if the patient meets any criteria for the Exception (E1 + E2+E3). If they meet any criteria, they should be removed from the Denominator for performance calculation. As a point of reference, these cases are removed from the denominator population for the performance calculation, however the number of patients with valid exceptions should be calculated and reported.

PCPI eSpecification

Measure Logic for Maternity Care: Cesarean Delivery for Nulliparous (NTSV) Women (Appropriate Use)
Measure Description: Percentage of patients, regardless of age, who gave birth during a 12-month period to a live singleton in vertex presentation at or beyond 37 weeks of gestation who had a cesarean delivery
Measurement Period: 12 Consecutive Months
PCPI Measure #: MC-6

Supplemental Data Elements (SDE)	Identify Patients in Initial Patient Population (IPP)	Identify Patients in Denominator (D)

Page 1

Supplemental Data Elements (SDE)

PATIENT CHARACTERISTIC

Gender
2.16.840.1.113883.1.11.1

PATIENT CHARACTERISTIC

Race
2.16.840.1.114222.4.11.836

PATIENT CHARACTERISTIC

Ethnicity
2.16.840.1.114222.4.11.837

PATIENT CHARACTERISTIC

Preferred Language
2.16.840.1.114222.4.11.831

PATIENT CHARACTERISTIC

Payer
2.16.840.1.113883.221.5

PATIENT CHARACTERISTIC

Age at Delivery
2.16.840.1.113883.3.526.2.1434

PHYSICAL EXAM
Finding

Gender of Newborn
2.16.840.1.113883.1.11.1

Attribute: Result
Value Present

Identify Patients in Initial Patient Population (IPP)

PHYSICAL EXAM
Finding

Gestational Age
2.16.840.1.113883.3.526.3.1347

Attribute: Result
Numerical Value
>=37 weeks

And

PROCEDURE
Performed

Vaginal Delivery
2.16.840.1.113883.3.526.3.1341

Attribute: stop datetime
Date of Delivery

OR

PROCEDURE
Performed

Cesarean Section Delivery
2.16.840.1.113883.3.526.3.1342

Attribute: stop datetime
Date of Delivery

Identify Patients in Denominator (D)

All Patients
Identified within
the Initial
Patient
Population

And

DIAGNOSIS
Active

Single Live Birth
2.16.840.1.113883.3.526.3.1367

And

DIAGNOSIS
Active

Vertex Fetal Presentation
2.16.840.1.113883.3.526.3.1386

And

PHYSICAL EXAM
Finding

Parity
2.16.840.1.113883.3.526.3.1387

Attribute: Result
Numerical Value = 0

And

PHYSICAL EXAM
Finding

Nulliparious
2.16.840.1.113883.3.526.3.1388

See Data Requirements Table for timing constraints and relationship between data elements.

PCPI eSpecification

Measure Logic for Maternity Care: Cesarean Delivery for Nulliparous (NTSV) Women (Appropriate Use)
Measure Description: Percentage of patients, regardless of age, who gave birth during a 12-month period to a live singleton in vertex presentation at or beyond 37 weeks of gestation who had a cesarean delivery
Measurement Period: 12 Consecutive Months
PCPI Measure #: MC-6

Identify Patients in Denominator Exclusion (EXCL)	Identify Patients in Numerator (N)	Identify Patients who have valid Denominator Exceptions * (EXCEP)

Page 2

Identify Patients in Denominator Exclusion (EXCL):

All Patients Identified within the Denominator

And

PATIENT CHARACTERISTIC

Clinical Trial Participant
2.16.840.1.113883.3.526.03.1125

Identify Patients in Numerator (N):

All Patients Identified within the Denominator

And Not

All Patients Identified within the Exclusions

And

PROCEDURE
Performed

Cesarean Section Delivery
2.16.840.1.113883.3.526.3.1342

Identify Patients who have valid Denominator Exceptions * (EXCEP):

No Valid Denominator Exceptions for this Measure

See Data Requirements Table for timing constraints and relationship between data elements.