<table>
<thead>
<tr>
<th>Clinical Topic</th>
<th>Maternity Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measure Title</td>
<td>Cesarean Delivery for Nulliparous (NTSV) Women (Appropriate Use)</td>
</tr>
<tr>
<td>Measure #</td>
<td>MC-6</td>
</tr>
<tr>
<td>Measure Description</td>
<td>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</td>
</tr>
<tr>
<td>Measurement Period</td>
<td>12 consecutive months</td>
</tr>
<tr>
<td>Initial Patient Population</td>
<td>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</td>
</tr>
<tr>
<td>Denominator Statement</td>
<td>Equals Initial Patient Population and gave birth to a live singleton in vertex presentation</td>
</tr>
<tr>
<td>Denominator Exclusions</td>
<td>Patients who were participating in a clinical trial during the measurement period</td>
</tr>
<tr>
<td>Numerator Statement</td>
<td>Patients who had a cesarean delivery</td>
</tr>
<tr>
<td>Denominator Exceptions</td>
<td>None</td>
</tr>
</tbody>
</table>
**Measure #6: Cesarean Delivery for Nulliparous (NTSV) Women**

**Measure Component**

<table>
<thead>
<tr>
<th>Standard Category</th>
<th>Data Type</th>
<th>Value Set Name</th>
<th>Standard Terminology</th>
<th>OID</th>
<th>Constraints</th>
<th>Comments/Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Characteristic</td>
<td>Patient Characteristic</td>
<td>Age at Delivery</td>
<td>LOINC 2.16.840.1.113883.3.526.2.1434</td>
<td>during [Attribute, stop datetime: Date of Delivery]</td>
<td>There are no restrictions on age for inclusion in the measure; this data element is included for result stratification to identify disparities.</td>
<td></td>
</tr>
<tr>
<td>Individual Characteristic</td>
<td>Patient Characteristic</td>
<td>Gender</td>
<td>HL7 (2.16.840.1.113883.5.1)</td>
<td>2.16.840.1.113883.1.11.1</td>
<td>during measurement period</td>
<td>This data element is collected for the purpose of stratifying results in an effort to highlight disparities.</td>
</tr>
<tr>
<td>Individual Characteristic</td>
<td>Patient Characteristic</td>
<td>Race</td>
<td>CDC 2.16.840.1.113883.3.526.2.1422</td>
<td>2.16.840.1.113883.1.11.11</td>
<td>during measurement period</td>
<td>This data element is collected for the purpose of stratifying results in an effort to highlight disparities.</td>
</tr>
<tr>
<td>Individual Characteristic</td>
<td>Patient Characteristic</td>
<td>Ethnicity</td>
<td>CDC 2.16.840.1.113883.3.526.2.1422</td>
<td>2.16.840.1.113883.1.11.11</td>
<td>during measurement period</td>
<td>This data element is collected for the purpose of stratifying results in an effort to highlight disparities.</td>
</tr>
<tr>
<td>Individual Characteristic</td>
<td>Patient Characteristic</td>
<td>Preferred Language</td>
<td>CDC 2.16.840.1.113883.3.526.2.1422</td>
<td>2.16.840.1.113883.1.11.11</td>
<td>during measurement period</td>
<td>This data element is collected for the purpose of stratifying results in an effort to highlight disparities.</td>
</tr>
<tr>
<td>Individual Characteristic</td>
<td>Patient Characteristic</td>
<td>Payer</td>
<td>Source of Payment Typology 2.16.840.1.113883.3.526.2.1422</td>
<td>2.16.840.1.113883.221.5</td>
<td>during measurement period</td>
<td>This data element is collected for the purpose of stratifying results in an effort to highlight disparities.</td>
</tr>
<tr>
<td>Individual Characteristic</td>
<td>Patient Characteristic</td>
<td>Gender of Newborn</td>
<td>HL7 (2.16.840.1.113883.5.1)</td>
<td>2.16.840.1.113883.1.11.1</td>
<td>during [Attribute, stop datetime: Date of Delivery]</td>
<td>This data will be found in the mothers record, specifically found in the delivery record.</td>
</tr>
</tbody>
</table>

**Attribute**

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Attribute: Result</th>
<th>Present &quot;X&quot;</th>
<th>n/a</th>
<th>n/a</th>
<th>n/a</th>
<th>TBD by measure implementer</th>
</tr>
</thead>
</table>

**Measure Timing**

<table>
<thead>
<tr>
<th>n/a</th>
<th>Measurement Start Date</th>
<th>n/a</th>
<th>n/a</th>
<th>TBD by measure implementer</th>
</tr>
</thead>
</table>

**Physical Exam**

**Condition / Diagnosis / Problem**

<table>
<thead>
<tr>
<th>Diagnosis, Active</th>
<th>Single Live Birth</th>
<th>GROUPING 2.16.840.1.113883.3.526.3.1367</th>
<th>2.16.840.1.113883.3.526.2.1440</th>
<th>during [Attribute, stop datetime: Date of Delivery]</th>
<th>This value set will only include live singletons.</th>
</tr>
</thead>
</table>

**Condition / Diagnosis / Problem**

<table>
<thead>
<tr>
<th>Diagnosis, Active</th>
<th>Vertex Fetal Presentation</th>
<th>GROUPING 2.16.840.1.113883.3.526.3.1386</th>
<th>2.16.840.1.113883.3.526.2.1485</th>
<th>during [Attribute, stop datetime: Date of Delivery]</th>
<th>&lt;= 44 weeks starts before or during [Attribute, stop datetime: Date of Delivery]</th>
</tr>
</thead>
</table>

**Physical Exam**

**Condition / Diagnosis / Problem**

<table>
<thead>
<tr>
<th>Parity</th>
<th>GROUPING 2.16.840.1.113883.3.526.3.1387</th>
<th>2.16.840.1.113883.3.526.2.1486</th>
<th>&lt;= 44 weeks starts before or during [Attribute, stop datetime: Date of Delivery]</th>
<th>n/a</th>
<th>This attribute is applied to the value set titled 'Parity'. A value of zero indicates nulliparous.</th>
</tr>
</thead>
</table>

**Physical Exam**

**Condition / Diagnosis / Problem**

<table>
<thead>
<tr>
<th>Nulliparous</th>
<th>GROUPING 2.16.840.1.113883.3.526.3.1388</th>
<th>2.16.840.1.113883.3.526.2.1487</th>
<th>&lt;= 44 weeks starts before or during [Attribute, stop datetime: Date of Delivery]</th>
<th>n/a</th>
<th>These patients applied as a denominator exception.</th>
</tr>
</thead>
</table>

**Numerator**

**Denominator Exclusions**

<table>
<thead>
<tr>
<th>Clinical Trial Participant</th>
<th>GROUPING 2.16.840.1.113883.3.526.3.1388</th>
<th>2.16.840.1.113883.3.526.2.1487</th>
<th>&lt;= 44 weeks starts before or during [Attribute, stop datetime: Date of Delivery]</th>
<th>n/a</th>
<th>These patients applied as a denominator exclusion.</th>
</tr>
</thead>
</table>

**Numerator Exceptions**

| n/a | n/a |

---

*For this measure, a lower score indicates higher quality.*

---

*The Quality Data Model (QDM), Version 2.1, was developed by National Quality Forum (NQF).*

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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:**

\(EXCEP= E1 \text{ (Medical Exceptions)} + E2 \text{ (Patient Exceptions)} + E3 \text{ (System Exceptions)}\)

For patients who have more than one valid exception, only one exception should be counted when calculating the exception rate.

<table>
<thead>
<tr>
<th>Initial Patient Population (IPP)</th>
<th>Denominator (D)</th>
<th>Exclusions (EXCL)</th>
<th>Numerator (N)</th>
<th>Exceptions (EXCEP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Definition:</strong> 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.</td>
<td><strong>Definition:</strong> 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.</td>
<td><strong>Definition:</strong> The specific group of patients who should be subtracted from the measure population and denominator before determining if the numerator criteria are met.</td>
<td><strong>Definition:</strong> The group of patients in the denominator for whom a process or outcome of care occurs (e.g., flu vaccine received).</td>
<td><strong>Definition:</strong> 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.</td>
</tr>
</tbody>
</table>

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.

Find 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.
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)

- **PATIENT CHARACTERISTIC**
  - Gender
    2.16.840.1.113883.1.11.1
  - Race
    2.16.840.1.114222.4.11.836
  - Ethnicity
    2.16.840.1.114222.4.11.837
  - Preferred Language
    2.16.840.1.113883.221.5
  - Payer
    2.16.840.1.113883.221.5
  - 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

- **PROCEDURE**
  - Performed
    Vaginal Delivery
    2.16.840.1.113883.3.526.3.1341
    Attribute: stop datetime
    Date of Delivery
  - OR
    Cesarean Section Delivery
    2.16.840.1.113883.3.526.3.1342
    Attribute: stop datetime
    Date of Delivery

### 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
    \( \geq 37 \) weeks

### 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
          - Nulliparous
            2.16.840.1.113883.3.526.3.1388

See Data Requirements Table for timing constraints and relationship between data elements.
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 Numerator (N)

- All Patients Identified within the Denominator
  - No Valid Denominator Exceptions for this Measure

Identify Patients in Denominator Exclusion (EXCL)

- All Patients Identified within the Denominator
  - Clinical Trial Participant 2.16.840.1.113883.3.526.03.1125

Identify Patients who have valid Denominator Exceptions * (EXCEP)

- All Patients Identified within the Exclusions
  - Not

PROCEDURE Performed

- Cesarean Section Delivery 2.16.840.1.113883.3.526.3.1342

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

*Coded examples for exceptions are NOT intended to be an exhaustive list. Exceptions will vary for each patient and situation.

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