Measure #254 (NQF 0651): Ultrasound Determination of Pregnancy Location for Pregnant Patients with Abdominal Pain – National Quality Strategy Domain: Effective Clinical Care

2016 OPTIONS FOR INDIVIDUAL MEASURES:
CLAIMS ONLY

MEASURE TYPE:
Process

DESCRIPTION:
Percentage of pregnant female patients aged 14 to 50 who present to the emergency department (ED) with a chief complaint of abdominal pain or vaginal bleeding who receive a trans-abdominal or trans-vaginal ultrasound to determine pregnancy location

INSTRUCTIONS:
This measure is to be reported each time a patient who presents in the emergency department with a chief complaint of abdominal pain and/or vaginal bleeding who receive a trans-abdominal or trans-vaginal ultrasound during the performance period. It is anticipated that clinicians who provide care in the emergency department will submit this measure. The Part B claim form place of service field must indicate that the encounter has taken place in the emergency department.

Measure Reporting:
The listed denominator criteria is used to identify the intended patient population. The numerator quality-data codes included in this specification are used to submit the quality actions allowed by the measure. All measure-specific coding should be reported on the claim(s) representing the eligible encounter.

DENOMINATOR:
All pregnant female patients aged 14 to 50 who present to the ED with a chief complaint of abdominal pain or vaginal bleeding

Denominator Criteria (Eligible Cases):
Pregnant females aged 14 to 50
AND
Diagnosis of Other Current Condition in the Mother Classifiable Elsewhere but Complicating Pregnancy, Childbirth, or the Puerperium (ICD-10-CM): O26.891, O26.899, O26.90, O26.91
AND
OR
Diagnosis for Vaginal Bleeding (ICD-10-CM): O20.0, O20.8, O20.9, O44.10, O44.11, O45.001, O45.009, O45.011, O45.019, O45.021, O45.029, O45.091, O45.099, O45.8X1, O45.8X9, O45.90, O45.91, O46.001, O46.009, O46.011, O46.019, O46.021, O46.029, O46.091, O46.8X1, O46.8X9, O46.90, O46.91, O46.099
AND
Patient encounter during the performance period (CPT): 99281, 99282, 99283, 99284, 99285, 99291
AND
Place of Service Indicator: 23
(The Part B claim form Place of Service field must indicate emergency department)

NUMERATOR:
Patients who receive a trans-abdominal or trans-vaginal ultrasound with documentation of pregnancy location in medical record
Numerator Instructions: This measure is to be reported each time a patient meets the requirements as indicated in the denominator. If the clinician documents that the clinical event surrounding the patient, with or without performance of trans-abdominal or trans-vaginal ultrasound, does not meet the intent of the measure, report quality-data code G8807.

Numerator Quality-Data Coding Options:
Trans-Abdominal or Trans-Vaginal Ultrasound Performed and Pregnancy Location Documented During ED Visit
Performance Met: G8806: Performance of trans-abdominal or trans-vaginal ultrasound

OR
Trans-Abdominal or Trans-Vaginal Ultrasound not Performed for Documented Reasons
Denominator Exception: G8807: Trans-abdominal or trans-vaginal ultrasound not performed for reasons documented by clinician (e.g., patient has visited the ED multiple times within 72 hours, patient has a documented Intrauterine Pregnancy [IUP])

OR
Trans-Abdominal or Trans-Vaginal Ultrasound not Performed, Reason not Given
Performance Not Met: G8808: Performance of trans-abdominal or trans-vaginal ultrasound not ordered, reason not given (e.g., patient has visited the ED multiple times with no documentation of a trans-abdominal or trans-vaginal ultrasound within ED or from referring eligible professional)

RATIONALE:
Ectopic Pregnancy is a relatively common condition which can result in morbidity or mortality if misdiagnosed resulting in a delay to appropriate treatment. Abdominal pain is a frequent presenting complaint of women with ruptured ectopic pregnancy. Pelvic ultrasound can establish a pregnancy as intrauterine and identify high risk features for ectopic pregnancy (pelvic free fluid, complex adnexal mass). Early ultrasound can shorten the time to diagnosis of ectopic pregnancy and can help risk stratify pregnant patients with the complaint of abdominal pain or vaginal bleeding for discharge with routine follow-up, discharge with early follow-up or admission.

CLINICAL RECOMMENDATION STATEMENTS:
Use of emergency ultrasound in pelvic disorders centers on the detection of intrauterine pregnancy (IUP), detection of ectopic pregnancy, detection of fetal heart rate in all stages of pregnancy, dating of the pregnancy, and detection of significant free fluid. Bedside pelvic ultrasound during the first trimester of pregnancy can be used to exclude ectopic pregnancy by demonstrating an intrauterine pregnancy. Studies of EP-performed ultrasound in this setting have demonstrated sensitivity of 76-90% and specificity of 88-92% for the detection of ectopic pregnancy. In one study, EPs were able to detect an intrauterine pregnancy in 70% of patients with suspected ectopic pregnancy (first trimester pregnancy with abdominal pain or vaginal bleeding). When intrauterine fetal anatomy was visualized at the bedside, ectopic pregnancy was ruled out with a negative predictive value of essentially 100%. When bedside ultrasound evaluation was incorporated into a clinical algorithm for the evaluation of patients with suspected ectopic pregnancy, the incidence of discharged patients returning with ruptured ectopic pregnancy was significantly reduced.

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2017 Claims Individual Measure Flow

#254 NQF #0651: Ultrasound Determination of Pregnancy Location for Pregnant Patients with Abdominal Pain

Start

- **Denominator**
  - Pregnant Female Patient Age at Date of Service 14 thru 50 Years
    - Yes
      - Diagnosis of Other Current Condition in the Mother Classifiable Elsewhere**
        - No
          - Not Included in Eligible Population / Denominator
        - Yes
          - Diagnosis of Abdominal Pain or Diagnosis of Vaginal Bleeding as Listed in Denominator*
            - No
              - Not Included in Eligible Population / Denominator (1/1/2017 thru 12/31/2017)
            - Yes
              - Encounter as Listed in Denominator* (1/1/2017 thru 12/31/2017)
                - No
                  - Not Included in Eligible Population / Denominator
                - Yes
                  - Place of Service: 23 Emergency Department (ED)***
                    - No
                      - Not Included in Eligible Population / Denominator (8 episodes)
                    - Yes
                      - Include in Eligible Population / Denominator (8 episodes)
            - Yes
              - Data Completeness Not Met Quality-Data Code not reported (1 episode)

- **Numerator**
  - Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed, Reason Not Given
    - Yes
      - Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed for Documented Reasons
        - Yes
          - Data Completeness Met + Denominator Exception G8807 (1 episode)
        - No
          - Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed and Pregnancy Location Documented
            - Yes
              - Data Completeness Met + Performance Met G8806 (4 episodes) 
a
            - No
              - Not Included in Eligible Population / Denominator

*See the posted Measure Specification for the specific coding and instruction to report this measure
**Diagnosis listed of Other Current Condition in the Mother Classifiable Elsewhere but Complicating Pregnancy, Childbirth or the Puerperium
***Encounter must occur in the Emergency Department (ED).

NOTE: Reporting Frequency: Episode

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### SAMPLE CALCULATIONS:

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Completeness = Performance Met (a=4 episodes) + Denominator Exception (b=1 episodes) + Performance Not Met (c≤2 episodes)</td>
<td>7 episodes = 87.50%</td>
</tr>
<tr>
<td>Eligible Population / Denominator (d=8 episodes)</td>
<td>8 episodes</td>
</tr>
<tr>
<td>Performance Rate** = Performance Met (a=4 episodes)</td>
<td>4 episodes = 66.66%</td>
</tr>
<tr>
<td>Data Completeness Numerator (7 episodes) - Denominator Exception (1 episodes)</td>
<td>6 episodes</td>
</tr>
</tbody>
</table>

*See the posted Measure Specification for the specific coding and instruction to report this measure.
**Diagnosis listed of Other Current Condition in the Mother Classifiable Elsewhere but Complicating Pregnancy, Childbirth or the Puerperium
***Encounter must occur in the Emergency Department (ED)

NOTE: Reporting Frequency: Episode
2017 Claims Individual Measure Flow
#254 NQF #0651: Ultrasound Determination of Pregnancy Location for Pregnant Patients with Abdominal Pain

Please refer to the specific section of the Measure Specification to identify the denominator and numerator information for use in reporting this Individual Measure.

1. Start with Denominator

2. Check Patient Age and Gender:
   a. If the Pregnant Female Age is equal to 14 thru 50 years of age at Date of Service equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
   b. If the Pregnant Female and Age is equal to 14 thru 50 years of age at Date of Service equals Yes during the measurement period, proceed to check Patient Diagnosis.

3. Check Patient Diagnosis:
   a. If Diagnosis of Other Current Condition in the Mother Classifiable Elsewhere as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Diagnosis of Other Current Condition in the Mother Classifiable Elsewhere as Listed in the Denominator equals Yes, proceed to check Patient Diagnosis of Abdominal Pain or Diagnosis of Vaginal Bleeding.

4. Check Patient Diagnosis of Abdominal Pain or Diagnosis of Vaginal Bleeding:
   a. If Diagnosis of Abdominal Pain or Diagnosis of Vaginal Bleeding as Listed in the Denominator equals No, proceed to check Diagnosis of Vaginal Bleeding.
   b. If Diagnosis of Abdominal Pain or Diagnosis of Vaginal Bleeding as Listed in the Denominator equals Yes, proceed to check Encounter Performed.

5. Check Encounter Performed:
   a. If Encounter as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Encounter as Listed in the Denominator equals Yes, proceed to check Place of Service: 23 Emergency Department (ED).

6. Check Place of Service: 23 Emergency Department (ED)
   a. If Place of Service: 23 Emergency Department (ED) as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If Place of Service: 23 Emergency Department (ED) as Listed in the Denominator equals Yes, include in Eligible population.

7. Denominator Population:
   a. Denominator population is all Eligible Patients in the denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 8 episodes in the sample calculation.

8. Start Numerator
9. Check Trans-Abdominal or Trans-Vaginal Ultrasound Performed and Pregnancy Location Documented:
   a. If Trans-Abdominal or Trans-Vaginal Ultrasound Performed and Pregnancy Location Documented equals Yes, include in Data Completeness Met and Performance Met.
   b. Data Completeness Met and Performance Met is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 4 episodes in Sample Calculation.
   c. If Trans-Abdominal or Trans-Vaginal Ultrasound Performed and Pregnancy Location Documented equals No, proceed to Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed for Documented Reasons.

10. Check Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed for Documented Reasons:
    a. If Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed for Documented Reasons equals Yes, include in Data Completeness Met and Performance Exclusion.
    b. Data Completeness Met and Denominator Exception is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b equals 1 episode in the Sample Calculation.
    c. If Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed for Documented Reasons equals No, proceed to Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed Reason Not Given.

11. Check Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed Reason Not Given:
    a. If Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed Reason Not Given equals Yes, include in the Data Completeness Met and Performance Not Met.
    b. Data Completeness Met and Performance Not Met is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 2 episodes in the Sample Calculation.
    c. If Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed Reason Not Specified equals No, proceed to Data Completeness Not Met.

12. Check Data Completeness Not Met:
    a. If Data Completeness Not Met equals No, Quality Data Code was not reported. 1 episode has been subtracted from the Data Completeness numerator in the sample calculation.

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**SAMPLE CALCULATIONS:**

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\text{Data Completeness} = \frac{\text{Performance Met (a=4 episodes)} + \text{Denominator Exception (b=1 episodes)} + \text{Performance Not Met (c=2 episodes)}}{\text{Eligible Population} / \text{Denominator (d=8 episodes)}} = \frac{7 \text{ episodes}}{8 \text{ episodes}} = 87.50% \\
\text{Performance Rate} = \frac{\text{Performance Met (a=4 episodes)}}{\text{Eligible Population} / \text{Denominator (d=8 episodes)}} = \frac{4 \text{ episodes}}{6 \text{ episodes}} = 66.66% \\
\text{Data Completeness Numerator} = (7 \text{ episodes}) - (\text{Denominator Exception (1 episodes)}) = 6 \text{ episodes} \\
\]