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

2016 PQRS OPTIONS FOR INDIVIDUAL MEASURES:
CLAIMS, REGISTRY

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 reporting 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 via Claims:
ICD-10-CM diagnosis codes, CPT codes, Place of Service Indicator, and patient demographics are used to identify patients who are included in the measure’s denominator. Quality-data codes are used to report the numerator of the measure.

When reporting the measure via claims, submit the listed ICD-10-CM diagnosis codes, CPT codes, Place of Service Indicator, and the appropriate numerator quality-data code. All measure-specific coding should be reported on the claim(s) representing the eligible encounter.

Measure Reporting via Registry:
ICD-10-CM diagnosis codes, CPT codes, Place of Service Indicator, and patient demographics are used to identify patients who are included in the measure’s denominator. The listed numerator options are used to report the numerator of the measure.

The quality-data codes listed do not need to be submitted for registry-based submissions; however, these codes may be submitted for those registries that utilize claims data.

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 reporting 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 for Reporting Satisfactorily:
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
Other Performance Exclusion: 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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2016 Claims/Registry Individual Measure Flow
PQRS #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

No

Diagnosis of Other Current Condition in the Mother Classifiable Elsewhere*/***

Yes

Not Included in Eligible Population / Denominator

No

Trans-Abdominal or Trans-Vaginal Ultrasound Performed and Pregnancy Location Documented

Reporting Met + Performance Met
G8806 or equivalent (4 episodes) a

Yes

Trans-Abdominal or Trans-Vaginal Ultrasound Not Performed for Documented Reasons

Reporting Met + Performance Exclusion
G8807 or equivalent (1 episode) b

No

Diagnosis of Abdominal Pain or Diagnosis of Vaginal Bleeding as Listed in Denominator*

Yes

No

Encounter as Listed in Denominator* (11/1/2016 thru 12/5/1/2016)

Yes

PCP: 23 Emergency Department (ED)**

Include in Eligible Population / Denominator (8 episodes)

No

No

Numerator

Reporting Not Met Quality-Data Code or equivalent not reported (1 episode) d

Reporting Met + Performance Not Met
G8808 or equivalent (2 episodes) c

SAMPLE CALCULATIONS:

Reporting Rate=
Performance Met (a=4 episodes) + Performance Exclusion (b=1 episodes) + Performance Not Met (c >=2 episodes) = 7 episodes = 87.50%

Eligible Population / Denominator (d=8 episodes)

Performance Rate**=
Performance Met (a=4 episodes) = 4 episodes = 66.66%

Reporting Numerator (7 episodes) – Performance Exclusion (1 episodes) = 6 episodes

NOTE: Reporting Frequency: Episode

*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).

The measure diagrams were developed by CMS as a supplemental resource to be used in conjunction with the measure specifications. They should not be used alone or as a substitution for the measure specification.
2016 Claims/Registry Individual Measure Flow
PQRS #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 POS: 23 Emergency Department (ED).

6. Check POS:23 Emergency Department (ED)
   a. If POS:23 Emergency Department (ED) as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
   b. If POS: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 Reporting Met and Performance Met.
   b. Reporting Met and Performance Met letter is represented in the Reporting Rate 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 Reporting Met and Performance Exclusion.
    b. Reporting Met and Performance Exclusion letter is represented in the Reporting Rate 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 Reporting Met and Performance Not Met.
    b. Reporting Met and Performance Not Met letter is represented in the Reporting Rate 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 Reporting Not Met.

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

**SAMPLE CALCULATIONS:**

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\text{Reporting Rate} = \frac{\text{Performance Met} (a=4 \text{ episodes}) + \text{Performance Exclusion} (b=1 \text{ episode}) + \text{Performance Not Met} (c=2 \text{ episodes})}{\text{Eligible Population / Denominator} (d=8 \text{ episodes})} = \frac{7 \text{ episodes}}{8 \text{ episodes}} = 87.50\%
\]

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\text{Performance Rate} = \frac{\text{Performance Met} (a=4 \text{ episodes})}{\text{Performance Met} (a=4 \text{ episodes}) + \text{Performance Exclusion} (1 \text{ episode})} = \frac{4 \text{ episodes}}{6 \text{ episodes}} = 66.66\%
\]