Chlamydia Screening for Women (NQF 0033)

EMeasure Name	Chlamydia Screening for Women	**EMeasure Id**	Pending
Version Number	1	**Set Id**	Pending
Available Date	No information	**Measurement Period**	January 1, 20xx through December 31, 20xx
Measure Steward	National Committee for Quality Assurance		
Endorsed by	National Quality Forum		
Description	The percentage of women 15-24 years of age who were identified as sexually active and who had at least one test for chlamydia during the measurement year.		
Measure scoring	Proportion		
Measure type	Process		
Rationale	This measure assesses appropriate screening for chlamydia among women in a specific age demographic. Chlamydia is one of the most frequently occurring sexually-transmitted diseases in the United States, resulting in over 2.8 million new cases each year. Women 14–30 are particularly susceptible and account for over 80% of new cases, according to the U.S. National Health and Nutrition Examination Survey. Additionally, heath care costs attributable to chlamydia and its complications exceed $3.5 billion per year in the U.S.. Early detection and treatment have proven to be effective in preventing and managing chlamydia. Several studies have shown that screening reduces overall disease prevalence by 4.2% and is strongly correlated with a reduced incidence of pelvic inflammatory disease (PID). This measure facilitates efforts toward early screening and treatment to improve health outcomes for infected women and prevent the spread of disease.		
Clinical Recommendation Statement	The U.S. Preventive Services Task Force (USPSTF) strongly recommends that clinicians routinely screen all sexually active women aged 25 years and younger, and other asymptomatic women at increased risk for infection, for chlamydial infection. Rating: A recommendation (http://www.ahrq.gov/clinic/uspstf/uspschlm.htm). The American Academy of Family Physicians (AAFP, 2005)) *strongly recommends* screening all sexually active females age 25 years or younger and other women at increased risk for chlamydia. American College of Preventive Medicine: Sexually active women with risk factors should be screened annually by any well-validated, laboratory-based amplification or antigen method, using cervical or urine specimens. Risk factors include age $\leq$25 years, a new male sex partner or two or more partners during the preceding year, inconsistent use of barrier contraception, history of a prior sexually transmitted disease (STD), African-American race, and cervical ectopy. All partners of women with positive tests should be tested for *Chlamydia trachomatis*. Women with mucopurulent discharge, suggestive of cervicitis, should be tested immediately. The American College of Obstetricians and Gynecologists recommends routine		

	screening for chlamydial infection for all sexually active adolescents and other asymptomatic women at high risk for infection.
References	American College of Obstetricians and Gynecologists, ACOG Committee on Primary Care. Committee Opinion No. 229. Washington DC: ACOG, 1999 Hollblad-Fadiman K, Goldman SM. American College of Preventive Medicine Practice Policy Statement: Screening for *Chlamydia trachomatis*. American Journal of Preventive Medicine 2003; 24(3) U.S. Preventive Services Task Force. Screening for chlamydial infection—including ocular prophylaxis in newborns. In: Guide to clinical preventive services. 2nd ed. Baltimore (MD): Williams & Wilkins; 1996.
Definitions	

Table of Contents

Please refer to the spreadsheet for this measure for detail regarding data criteria and code lists.

Population criteria 1

- **Initial Patient Population =**
    - AND: “Patient characteristic: birth date” (age) >=15 and <= 23 years to expect screening for patients within one year after reaching 15 years until 24 years;
- **Denominator =**
    - AND: All patients in the initial patient population;
        - AND: “Encounter: encounter outpatient”;
    - AND:
        - OR: “Procedure performed: procedures indicative of sexually active women”;
        - OR: “Laboratory test result: pregnancy test”;
        - OR: “Laboratory test performed: pregnancy test”;
        - OR: “Device applied: IUD use”;
        - OR: “Device allergy: IUD use”;
        - OR: “Communication to patient: contraceptive use education”;
        - OR: ”Medication active: contraceptives”;
        - OR: ”Medication order: contraceptives”;
        - OR: ”Medication dispensed: contraceptives”;

- OR: “Encounter: pregnancy”;
- OR: “Laboratory test performed: lab tests indicative of sexually active woman”;
- OR: “Diagnosis active: sexually active woman”;

- **Numerator =**
  - OR: “Laboratory test performed: chlamydia screening”;
  - OR: “Laboratory test result: chlamydia screening”;

- **Exclusions =**
  - OR:
    - OR: “Laboratory test result: pregnancy test”;
    - OR: “Laboratory test performed: pregnancy test”;
    - AND:
      - OR: “Medication dispensed: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Medication dispensed: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
      - OR: “Medication active: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Medication active: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
      - OR: “Medication order: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Medication order: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
      - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test result: pregnancy test”;
      - OR: “Diagnostic study result: x-ray study” <=7 days after “Laboratory test performed: pregnancy test” ;
      - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test result: pregnancy test”;

<u>Population criteria 2</u>

- **Initial Patient Population =**
  - AND: “Patient characteristic: birth date” (age) >=14 and <= 19 years to capture all patients who will reach the ages of 15 through 20 years during the measurement period;

- **Denominator =**
  - AND: All patients in the initial patient population;
    - AND: “Encounter: encounter outpatient”;
  - AND:

- OR: “Procedure performed: procedures indicative of sexually active women”;
- OR: “Laboratory test result: pregnancy test”;
- OR: “Laboratory test performed: pregnancy test”;
- OR: “Device applied: IUD use”;
- OR: “Device allergy: IUD use”;
- OR: “Communication to patient: contraceptive use education”;
- OR: ”Medication active: contraceptives”;
- OR: ”Medication order: contraceptives”;
- OR: ”Medication dispensed: contraceptives”;
- OR: “Encounter: pregnancy”;
- OR: “Laboratory test performed: lab tests indicative of sexually active woman”;
- OR: “Diagnosis active: sexually active woman”;

- **Numerator =**
    - OR: “Laboratory test performed: chlamydia screening”;
    - OR: “Laboratory test result: chlamydia screening”;

- **Exclusions =**
    - OR:
        - OR: “Laboratory test result: pregnancy test”;
        - OR: “Laboratory test performed: pregnancy test”;
        - AND:
            - OR: “Medication dispensed: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
            - OR: “Medication dispensed: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
            - OR: “Medication active: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
            - OR: “Medication active: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
            - OR: “Medication order: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
            - OR: “Medication order: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
            - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test performed: pregnancy test”;
            - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test result: pregnancy test”;
            - OR: “Diagnostic study result: x-ray study” <=7 days after “Laboratory test performed: pregnancy test” ;
            - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test result: pregnancy test”;

<u>Population criteria 3</u>

- **Initial Patient Population =**

- AND: “Patient characteristic: birth date” (age) >=20 and <= 23 years to capture all patients who will reach the ages of 21 through 24 years during the measurement period;

- **Denominator =**
  - AND: All patients in the initial patient population;
    - AND: “Encounter: encounter outpatient”;
  - AND:
    - OR: “Procedure performed: procedures indicative of sexually active women”;
    - OR: “Laboratory test result: pregnancy test”;
    - OR: “Laboratory test performed: pregnancy test”;
    - OR: “Device applied: IUD use”;
    - OR: “Device allergy: IUD use”;
    - OR: “Communication to patient: contraceptive use education”;
    - OR: ”Medication active: contraceptives”;
    - OR: ”Medication order: contraceptives”;
    - OR: ”Medication dispensed: contraceptives”;
    - OR: “Encounter: pregnancy”;
    - OR: “Laboratory test performed: lab tests indicative of sexually active woman”;
    - OR: “Diagnosis active: sexually active woman”;
- **Numerator =**
  - OR: “Laboratory test performed: chlamydia screening”;
  - OR: “Laboratory test result: chlamydia screening”;
- **Exclusions =**
  - OR:
    - OR: “Laboratory test result: pregnancy test”;
    - OR: “Laboratory test performed: pregnancy test”;
    - AND:
      - OR: “Medication dispensed: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Medication dispensed: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
      - OR: “Medication active: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Medication active: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
      - OR: “Medication order: retinoid” <=7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Medication order: retinoid” <=7 days after “Laboratory test result: pregnancy test”;
      - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test performed: pregnancy test”;
      - OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test result: pregnancy test”;

- OR: “Diagnostic study result: x-ray study” <=7 days after “Laboratory test performed: pregnancy test”;
- OR: “Diagnostic study performed: x-ray study” <= 7 days after “Laboratory test result: pregnancy test”;

<u>Data criteria</u> (QDS Data Elements)

- **Initial Patient Population =**
    - “Patient characteristic: birth date” using “birth date code list” before the beginning of the “measurement period”;
- **Denominator =**
    - All patients in the initial patient population;
    - “Encounter: encounter outpatient” using “encounter outpatient code list grouping” before or simultaneously to the “measurement end date”;
    - “Procedure performed: procedures indicative of sexually active women” using code list “procedures indicative of sexually active woman” during the “measurement period”;
    - “Laboratory test performed: pregnancy test” using “pregnancy test code list grouping” during the “measurement period”;
    - “Laboratory test result: pregnancy test” using “pregnancy test code list grouping” during the “measurement period”;
    - “Device applied: IUD use” using “IUD use code list” before or simultaneously to the “measurement end date”;
    - “Device allergy: IUD use” using “IUD use code list” before or simultaneously to the “measurement end date”;
    - “Communication to patient: contraceptive use education” using “contraceptive use education code list” before or simultaneously to the “measurement end date”;
    - ”Medication active: contraceptives” using “contraceptives code list” before or simultaneously to the “measurement end date”;
    - ”Medication order: contraceptives” using “contraceptives code list” before or simultaneously to the “measurement end date”;
    - ”Medication dispensed: contraceptives” using “contraceptives code list” before or simultaneously to the “measurement end date”;
    - “Encounter: pregnancy” using “pregnancy code list” during the “measurement period”;
    - “Laboratory test performed: lab tests indicative of sexually active woman” using code list “lab tests indicative of sexually active woman” before or simultaneously to the “measurement end date”;
    - “Diagnosis active: sexually active woman” using code list “sexually active woman code list grouping” before or simultaneously to the “measurement end date”;
- **Numerator =**
    - “Laboratory test performed: chlamydia screening” using “chlamydia screening code list [CPT]” during the “measurement period”;
    - “Laboratory test result: chlamydia screening” using “chlamydia screening code list [LOINC]” during the “measurement period”;

- **Exclusions =**
    - "Laboratory test result: pregnancy test" using "pregnancy test code list grouping" during the "measurement period";
    - "Laboratory test performed: pregnancy test" using "pregnancy test code list grouping" during the "measurement period";
    - "Medication dispensed: retinoid" using "retinoid code list" after "Laboratory test performed: pregnancy test";
    - "Medication active: retinoid" using "retinoid code list" after "Laboratory test performed: pregnancy test";
    - "Medication order: retinoid" using "retinoid code list" after "Laboratory test performed: pregnancy test";
    - "Diagnostic study performed: x-ray study" using "x-ray study code list grouping" after or "Laboratory test performed: pregnancy test" or "Laboratory test result: pregnancy test";
    - "Diagnostic study result: x-ray study" using "x-ray study code list grouping" after or before "Laboratory test performed: pregnancy test" or "Laboratory test result: pregnancy test";

Summary calculation

Calculation is generic to all measures:

- Calculate the final denominator by adding all that meet denominator criteria.
- Subtract from the final denominator all that do not meet numerator criteria yet also meet exclusion criteria. Note some measures do not have exclusion criteria.
- The performance calculation is the number meeting numerator criteria divided by the final denominator.
- For measures with multiple patient populations, repeat this process for each patient population and report each result separately.
- For measures with multiple numerators, calculate each numerator separately within each population using the paired exclusion.

Measure set	CLINICAL QUALITY MEASURE SET 2011-2012