

## Prenatal Care: Anti-D Immune Globulin (NQF 0014)

<b>EMeasure Name</b>	Prenatal Care: Anti-D Immune Globulin	<b>EMeasure Id</b>	Pending
<b>Version Number</b>	1	<b>Set Id</b>	Pending
<b>Available Date</b>	No information	<b>Measurement Period</b>	January 1, 20xx through December 31, 20xx
<b>Measure Steward</b>	American Medical Association – Physician Consortium for Performance Improvement		
<b>Endorsed By</b>	National Quality Forum		
<b>Description</b>	Percentage of D (Rh) negative, unsensitized patients, regardless of age, who gave birth during a 12-month period who received anti-D immune globulin at 26-30 weeks gestation.		
<b>Measure scoring</b>	Proportion		
<b>Measure type</b>	Process		
<b>Rationale</b>	<p>Rh sensitization is a serious complication of pregnancy that places the lives of both mother and child at risk. This complication can be avoided through the prophylactic administration of anti-D immune globulin.</p> <p>Antibody tests can be repeated in an unsensitized, D-negative patient at 26-28 weeks gestation. She should also receive anti-D immune globulin prophylactically at that time. In addition, any unsensitized, D-negative patient should receive anti-D immune globulin if she has one of the following conditions or procedures:</p> <ul style="list-style-type: none"> <li>• Ectopic gestation</li> <li>• Abortion (either threatened, spontaneous, or induced)</li> <li>• Procedure associated with possible fetal-to-maternal bleeding, such as chorionic villus sampling (CVS) or amniocentesis</li> <li>• Condition associated with fetal-maternal hemorrhage (eg, abdominal trauma, abruptio placentae)</li> <li>• Delivery of a D-positive newborn (AAP/ACOG) (Level A)</li> </ul> <p>The USPSTF recommends the repeated Rh (D) antibody testing for all unsensitized Rh (D)-negative women at 24-28 weeks gestation, unless the biological father is known to be Rh (D)-negative. (USPSTF) (B Recommendation).</p>		
<b>Clinical Recommendation Statement</b>	<p>Antibody tests can be repeated in an unsensitized, D-negative patient at 26-28 weeks gestation. She should also receive anti-D immune globulin prophylactically at that time. In addition, any unsensitized, D-negative patient should receive anti-D immune globulin if she has one of the following conditions or procedures:</p> <ul style="list-style-type: none"> <li>• Ectopic gestation</li> <li>• Abortion (either threatened, spontaneous, or induced)</li> <li>• Procedure associated with possible fetal-to-maternal bleeding, such as chorionic villus sampling (CVS) or amniocentesis</li> <li>• Condition associated with fetal-maternal hemorrhage (eg, abdominal trauma, abruptio placentae)</li> <li>• Delivery of a D-positive newborn (AAP/ACOG) (Level A)</li> </ul> <p>The USPSTF recommends the repeated Rh (D) antibody testing for all</p>		

	unsensitized Rh (D)-negative women at 24-28 weeks gestation, unless the biological father is known to be Rh (D)-negative (USPSTF) (B Recommendation).
<b>References</b>	
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*Please refer to the spreadsheet for this measure for detail regarding data criteria and code lists.*

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## Population criteria

- **Initial Patient Population =**
  - AND: "Diagnosis active: delivery live births-diagnosis";
  - AND: "Procedure performed: delivery live births-procedure";
- **Denominator =**
  - AND: "All patients in the initial patient population";
  - AND: "Diagnosis active: D(Rh) negative", status = "unsensitized";
    - OR:
      - AND: "Diagnosis active: primagravida";
      - AND: "Laboratory test result: Rh status mother", value = "negative";
    - OR:
      - AND: "Diagnosis active: multigravida";
      - AND: "Laboratory test result: Rh status mother", value = "negative";
      - AND: "Laboratory test result Rh status baby", value = "negative";
  - AND: "Encounter: prenatal visit"
- **Numerator =**
  - AND "Patient characteristic: estimated date of conception" before or simultaneous to "procedure performed: delivery live births-procedure" <= 10 months
  - AND: "Medication administered: anti-D immune globulin" - "Patient characteristic: estimated date of conception" >= 26 weeks;
  - AND: "Medication administered: anti-D immune globulin" - "Patient characteristic: estimated date of conception" <= 30 weeks;
- **Exclusions =**
  - OR: "Medication not done: patient reason";
  - OR: "Medication not done: medical reason";
  - OR: "Medication not done: system reason";
  - OR: "Patient characteristic: estimated date of conception" <= 10 months;

- OR: “Medication not done: anti-D immune globulin declined”;

### **Data criteria (QDS Data Elements)**

- **Initial Patient Population =**
  - “Diagnosis active: delivery live births-diagnosis” using the “delivery live births-diagnosis code list grouping” during the “measurement period”;
  - “Procedure performed: delivery live births-procedure” using the “delivery live births-procedure code list grouping” during the “measurement period”;
- **Denominator =**
  - “All patients in the initial patient population”;
  - “Diagnosis active: D(Rh) Negative” using the “D(Rh) negative code list” before or simultaneously to the “measurement period”;
  - “Diagnosis active: primagravida” using the “primagravida code list” during the “measurement period”;
  - “Laboratory test result: Rh status mother” using the “encounter Rh status mother code list” before or simultaneously to “Procedure performed: delivery live births-procedure”;
  - “Laboratory test result: Rh status baby” using the “encounter Rh status baby code list” before or simultaneously to “Procedure performed: delivery live births-procedure”;
  - “Diagnosis: multigravida” using the “multigravida code list” during the “measurement period”;
  - “Encounter: prenatal visit” using the “prenatal visit code list” after “Patient characteristic: estimated date of conception”;
- **Numerator =**
  - “Patient characteristic: estimated date of conception” using the “estimated date of conception code list” before “Procedure performed: delivery live births-procedure”;
  - “Medication administered: anti-D immune globulin” using the “anti-D immune globulin code list grouping”;
- **Exclusions =**
  - “Medication not done: patient reason” using the “patient reason code list” for “anti-D immune globulin”;
  - “Medication not done: medical reason” using the “medical reason code list” for “anti-D immune globulin”;
  - “Medication not done: system reason” using the “system reason code list” for “anti-D immune globulin”;
  - “Patient characteristic: estimated date of conception” using the “estimated date of conception code list” before “Procedure performed: delivery live births-procedure”;
  - “Medication not done: anti-D immune globulin declined” using the “anti-D immune globulin declined code list” for “Medication administered: anti-D immune globulin”;

### **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.

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<b>Measure set</b>	CLINICAL QUALITY MEASURE SET 2011-2012
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