

## Diabetic Retinopathy: Documentation of Presence or Absence of Macular Edema and Level of Severity of Retinopathy (NQF 0088)

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| <b>EMeasure Name</b>                     | Diabetic Retinopathy: Documentation of Presence or Absence of Macular Edema and Level of Severity of Retinopathy  | <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 patients aged 18 years and older with a diagnosis of diabetic retinopathy who had a dilated macular or fundus exam performed which included documentation of the level of severity of retinopathy and the presence or absence of macular edema during one or more office visits within 12 months.   |                           |   |
| <b>Measure scoring</b>                   | Proportion  |                           |   |
| <b>Measure type</b>                      | Process   |                           |   |
| <b>Rationale</b>                         | Several level 1 RCT studies demonstrate the ability of timely treatment to reduce the rate and severity of vision loss from diabetes (Diabetic Retinopathy Study – DRS, Early Treatment Diabetic Retinopathy Study – ETDRS). Necessary examination prerequisites to applying the study results are that the presence and severity of both peripheral diabetic retinopathy and macular edema be accurately documented. In the RAND chronic disease quality project, while administrative data indicated that roughly half of the patients had an eye exam in the recommended time period, chart review data indicated that only 19% had documented evidence of a dilated examination. (McGlynn, 2003). Thus, ensuring timely treatment that could prevent 95% of the blindness due to diabetes requires the performance and documentation of key examination parameters. The documented level of severity of retinopathy and the documented presence or absence of macular edema assists with the on-going plan of care for the patient with diabetic retinopathy. |                           |   |
| <b>Clinical Recommendation Statement</b> | Since treatment is effective in reducing the risk of visual loss, detailed examination is indicated to assess for the following features that often lead to visual impairment: presence of macular edema, optic nerve neovascularization and/or neovascularization elsewhere, signs of severe NPDR and vitreous or preretinal hemorrhage (Level A:III Recommendation) (AAO, 2003).  |                           |   |
| <b>References</b>                        |   |                           |   |
| <b>Definitions</b>                       |   |                           |   |

## Table of Contents

- [Population criteria](#)
- [Data criteria \(QDS Data Elements\)](#)
- [Summary Calculation](#)

*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: "Patient characteristic: birth date" (age)  $\geq 18$  years;
  - AND: "Diagnosis active: diabetic retinopathy";
  - AND:  $\geq 2$  counts(s) of:
    - OR: "Encounter: encounter office & outpatient consult";
    - OR: "Encounter: encounter ophthalmological services";
    - OR: "Encounter: encounter nursing facility";
    - OR: "Encounter: encounter domiciliary";
- **Denominator =**
  - AND: All patients in the initial patient population;
- **Numerator =**
  - AND: "Procedure performed: macular or fundus exam";
  - AND:
    - OR:
      - AND: "Physical exam finding: macular edema findings";
      - AND: "Physical exam finding: level of severity of retinopathy findings";
    - OR: "Physical exam finding: severity of retinopathy and macular edema findings";
- **Exclusions =**
  - OR: "Procedure not done: medical reason";
  - OR: "Procedure not done: patient reason";

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

- **Initial Patient Population =**

- "Patient characteristic: birth date" using "birth date code list" before the beginning of the "measurement period";
- "Diagnosis active: diabetic retinopathy" using "diabetic retinopathy code list grouping" before or simultaneously to "Encounter: encounter office & outpatient consult" OR "Encounter: encounter ophthalmological services" OR "Encounter: encounter nursing facility" OR "Encounter: encounter domiciliary";
- "Encounter: encounter office & outpatient consult" using "encounter office & outpatient consult code list" during the "measurement period";
- "Encounter: encounter ophthalmological services" using "encounter ophthalmological services code list" during the "measurement period";
- "Encounter: encounter nursing facility" using "encounter nursing facility code list" during the "measurement period";
- "Encounter: encounter domiciliary" using "encounter domiciliary code list" during the "measurement period";
- **Denominator =**
  - All patients in the initial patient population;
- **Numerator =**
  - "Procedure performed: macular or fundus exam" using "macular or fundus exam code list" during "Encounter: encounter office & outpatient consult" OR "Encounter: encounter ophthalmological services" OR "Encounter: encounter nursing facility" OR "Encounter: encounter domiciliary";
  - "Physical exam finding: macular edema findings" using "macular edema findings code list" before or simultaneously to "Encounter: encounter office & outpatient consult" OR "Encounter: encounter ophthalmological services" OR "Encounter: encounter nursing facility" OR "Encounter: encounter domiciliary";
  - "Physical exam finding: level of severity of retinopathy findings" using "level of severity of retinopathy findings code list" before or simultaneously to "Encounter: encounter office & outpatient consult" OR "Encounter: encounter ophthalmological services" OR "Encounter: encounter nursing facility" OR "Encounter: encounter domiciliary";
  - "Physical exam finding: severity of retinopathy and macular edema findings" using "severity of retinopathy and macular edema findings code list" before or simultaneously to "Encounter: encounter office & outpatient consult" OR "Encounter: encounter ophthalmological services" OR "Encounter: encounter nursing facility" OR "Encounter: encounter domiciliary";
- **Exclusions =**
  - "Procedure not done: medical reason" using "medical reason code list" for "Procedure performed: macular or fundus exam";
  - "Procedure not done: patient reason" using "patient reason code list" for "Procedure performed: macular or fundus exam";

### **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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| Measure set | CLINICAL QUALITY MEASURE SET 2011-2012 |
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