# **Diabetes: Blood Pressure Management (NQF 0061)**

	position is indicated periodically, especially in those at risk for postural hypotension. At least two measurements should be made and the average recorded. After BP is at goal and stable, follow-up visits can usually be at 3- to 6-month intervals. Co-morbidities such as heart failure, associated diseases such as diabetes, and the need for laboratory tests influence the frequency of visits.  National Kidney Foundation (NKF): Recommends that all individuals should be evaluated during health encounters to determine whether they are at increased risk of having or of developing chronic kidney disease. This evaluation of risk factors should include blood pressure measurement.
References	American Association of Clinical Endocrinologists and American College of Endocrinology. The American Association of Clinical Endocrinologists Medical Guidelines for the Management of Diabetes Mellitus: The AACE System of Intensive Diabetes Self-Management—2002
	California Healthcare Foundation/American Geriatrics Society (AGS) Improving Care of Elders with Diabetes. Guidelines for Improving the Care of the Older Person with Diabetes Mellitus. J Am Geriatr Soc 2003;51:S265-S280. Available at http://www.americangeriatrics.org/education/diabetes_executive_summary.shtml Accessed September 2004.
	The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC VII). NIH Publication No. 04-5230, August 2004.
Definitions	

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

# **Population criteria**

# • Initial Patient Population =

AND: "Patient characteristic: birth date" (age) >= 17 years and <=74 years to capture all
patients who will reach the ages between 18 and 75 years during the "measurement
period";</li>

# • Denominator =

o AND: All patients in the initial patient population;

- o AND:
  - OR: "Medication dispensed: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";
  - OR: "Medication order: medications indicative of diabetes" <=2 years before or simultaneously to "measurement end date";
  - OR: "Medication active: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";
  - OR:
- AND: "Diagnosis active: diabetes" <= 2 years before or simultaneously to "measurement end date";
- AND:
  - OR: >=1 count(s) of "Encounter: encounter acute inpatient or ED";
  - OR: >=2 count(s) of "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" occurring on 2 different dates;

#### • Numerator =

- o AND:
  - OR: "Physical exam finding: diastolic blood pressure", MINIMUM value < 90
    mmHg during MOST RECENT "Encounter: encounter non-acute inpt, outpatient,
    or ophthalmology";</li>
  - OR: "Physical exam finding: diastolic blood pressure", MINIMUM value < 90 mmHg during MOST RECENT "Encounter: Encounter acute inpatient or ED";
- o AND:
  - OR: "Physical exam finding: systolic blood pressure", MINIMUM value < 140
    mmHg during MOST RECENT "Encounter: encounter non-acute inpt, outpatient,
    or ophthalmology";</li>
  - OR: "Physical exam finding: systolic blood pressure", MINIMUM value < 140 mmHg during MOST RECENT "Encounter: Encounter acute inpatient or ED";

#### • Exclusions =

- o OR:
  - AND: "Diagnosis active: polycystic ovaries";
  - AND NOT:
    - AND: "Diagnosis active: diabetes" <= 2 years before or simultaneously to "measurement end date";
    - AND:
      - OR: "Encounter: encounter acute inpatient or ED" <= 2 years before or simultaneously to "measurement end date";

 OR: "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" <= 2 years before or simultaneously to "measurement end date";

## o OR:

## • AND:

- OR: "Diagnosis active: gestational diabetes" <= 2 years before or simultaneously to "measurement end date";
- OR: "Diagnosis active: steroid induced diabetes" <= 2 years before or simultaneously to "measurement end date";

#### • AND:

- OR: "Medication order: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";
- OR: "Medication dispensed: medications indicative of diabetes" <=2
  years before or simultaneously to "measurement end date";</li>
- OR: "Medication active: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";

#### AND NOT:

- AND: "Diagnosis active: diabetes" <=2 years before or simultaneously to "measurement end date";
- AND:
  - OR: "Encounter: Encounter acute inpatient or ED" <= 2 years before or simultaneously to "measurement end date";
  - OR: "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" <= 2 years before or simultaneously to "measurement end date";

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

# • Initial Patient Population =

 "Patient characteristic: birth date" using "birth date code list" before the "measurement period";

# • Denominator =

- "Diagnosis active: diabetes" using "diabetes code list grouping" before or simultaneously to the "measurement end date";
- "Encounter: encounter acute inpatient or ED" using "encounter acute inpatient or ED code list grouping" during the "measurement period";

- "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" using "encounter non-acute inpt, outpatient, or ophthalmology code list grouping" during the "measurement period";
- "Medication order: medications indicative of diabetes" using "medications indicative of diabetes code list grouping" before or simultaneously to the "measurement end date";
- "Medication dispensed: medications indicative of diabetes" using "medications indicative of diabetes code list grouping" before or simultaneously to the "measurement end date";
- o "Medication active: medications indicative of diabetes" using "medications indicative of diabetes code list grouping" before or simultaneously to the "measurement end date";

#### Numerator =

- "Physical exam finding: diastolic blood pressure" using "diastolic blood pressure code list" during the "measurement period";
- "Physical exam finding: systolic blood pressure" using "systolic blood pressure code list" during the "measurement period";

#### Exclusions =

- "Diagnosis active: polycystic ovaries" using "polycystic ovaries code list grouping" before or simultaneously to the "measurement end date";
- "Diagnosis active: gestational diabetes" using "gestational diabetes code list grouping" before or simultaneously to the "measurement end date";
- "Diagnosis active: steroid induced diabetes" using "steroid induced diabetes code list grouping" before or simultaneously to the "measurement end date";

## **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.