

M.A.P. (Measure, Act, Partner)

THE M.A.P. (Measure, Act, Partner) to prevent type 2 diabetes—physicians and care teams can use this document to determine roles and responsibilities for identifying adult patients with prediabetes and referring to community-based diabetes prevention programs. “Point-of-Care” and “Retrospective” methods may be used together or alone.

Choose and check what works best for your practice

Step 1: Measure	When	Who	How (draw from AMA-CDC tools)
Point-of-care method <ul style="list-style-type: none"> Assess risk for prediabetes during routine office visit Test and evaluate blood glucose level based on risk status 	<ul style="list-style-type: none"> During vital signs 	<ul style="list-style-type: none"> Medical assistant Nurse Physician Other _____ 	<ul style="list-style-type: none"> Provide “Are you at risk for prediabetes?” patient education handout in waiting area Use/adapt “Patient flow process” tool Use CDC or ADA risk assessment questionnaire at check-in Display 8 x 11” patient-facing poster promoting prediabetes awareness to your patients Use/adapt “Point-of-care algorithm”
Retrospective method <ul style="list-style-type: none"> Query EHR to identify patients with BMI ≥ 24; ≥ 22 if Asian* and blood glucose level in the prediabetes range 	<ul style="list-style-type: none"> Every 6–12 months 	<ul style="list-style-type: none"> Health IT staff Other _____ 	<ul style="list-style-type: none"> Use/adapt “Retrospective algorithm”
Step 2: Act			
Point-of-care method <ul style="list-style-type: none"> Counsel patient re: prediabetes and treatment options during office visit Refer patient to diabetes prevention program Share patient contact info with program provider** 	<ul style="list-style-type: none"> During the visit 	<ul style="list-style-type: none"> Medical assistant Nurse Physician Other _____ 	<ul style="list-style-type: none"> Advise patient using “So you have prediabetes ... now what?” handout Use/adapt “Health care practitioner referral form” Refer to “Commonly used CPT and ICD codes”
Retrospective method <ul style="list-style-type: none"> Inform patient of prediabetes status via mail, email or phone call Make patient aware of referral and info sharing with program provider Refer patient to diabetes prevention program Share patient contact info with program provider** 	<ul style="list-style-type: none"> Contact patient soon after EHR query 	<ul style="list-style-type: none"> Health IT staff Medical assistant (for phone calls) Other _____ 	<ul style="list-style-type: none"> Use/adapt “Patient letter/phone call” template Use/adapt “Health care practitioner referral form” for making individual referrals Use/adapt “Business Associate Agreement” template on AMA’s website if needed
Step 3: Partner			
With diabetes prevention programs <ul style="list-style-type: none"> Engage and communicate with your local diabetes prevention program Establish process to receive feedback from program about your patients’ participation 	<ul style="list-style-type: none"> Establish contact before making 1st referral 	<ul style="list-style-type: none"> Office manager Other _____ 	Use/adapt “ Business Associate Agreement ” template on AMA’s website if needed Refer to “Commonly used CPT and ICD codes”
With patients <ul style="list-style-type: none"> Explore motivating factors important to the patient At follow-up visit, order/review blood tests to determine impact of program and reinforce continued program participation Discuss program feedback with patient and integrate into care plan 	<ul style="list-style-type: none"> During office visit Other _____ 	<ul style="list-style-type: none"> Medical assistant Nurse Physician Other _____ 	<ul style="list-style-type: none"> Advise patient using “So you have prediabetes ... now what?” handout and provide CDC physical activity fact sheet www.cdc.gov/physicalactivity

* These BMI levels reflect eligibility for the National DPP as noted in the CDC Diabetes Prevention Recognition Program Standards and Operating Procedures. The American Diabetes Association (ADA) encourages screening for diabetes at a BMI of ≥ 23 for Asian Americans and ≥ 25 for non-Asian Americans, and some programs may use the ADA screening criteria for program eligibility. Please check with your diabetes prevention program provider for their specific BMI eligibility requirements.

** To share patient contact information with a diabetes prevention program, you may need a Business Associate Agreement (BAA).



Referring patients to a diabetes prevention program

Method 1:

Point-of-care identification and referral

Download and display patient materials

Download and print the practice and patient resources included in this guide in advance of patient visits, so your office can have them available in the waiting room or during consult.

Measure

Step 1 – During rooming/vitals:

- A. If the patient is age 40 to 70 and is obese or overweight (USPSTF criteria), and does not have diabetes, proceed to the blood test.
- B. If the patient is age ≥ 18 and does not have diabetes, nor meet the criteria in A, provide the self-screening risk test. If the self-screening test reveals high risk (score ≥ 5), proceed to calculating the patient's body mass index.
 - The screening test can also be mailed to patient along with other pre-visit materials. If a patient completes the self-screening risk test, insert test results in the patient's paper chart or electronic medical record (EMR).

Step 2 – During exam/consult: Follow the "Point-of-care prediabetes identification algorithm" to determine if patient has prediabetes.

If the blood test results **do not** indicate prediabetes:

Encourage the patient to maintain healthy lifestyle choices. Continue with exam/consult.

Act

- A. If the patient screens positive for prediabetes and has BMI < 24 (< 22 if Asian)*:
 - Introduce the topic of prediabetes by briefly explaining what it is and its relation to diabetes (use the handout "So you have prediabetes ... now what?"). Review the patient's own risk factors.
 - Emphasize the importance of prevention, including healthy eating, increased physical activity, and the elimination of risky drinking and tobacco use. (Visit the National Diabetes Education Program's GAME PLAN to Prevent Type 2 Diabetes for additional patient resources.)
- B. If the patient screens positive for prediabetes and has BMI ≥ 24 (≥ 22 if Asian)*:
 - Follow the steps in "A" above, discuss the value of participating in a diabetes prevention program, and determine the patient's willingness to let you refer him/her to a program.
 - If the patient agrees, complete and send the [referral form](#) to a community-based or online diabetes prevention program, depending on patient preference.
 - If patient declines, offer him/her a program handout and re-evaluate risk factors at next clinic visit.

Step 3 – Referral to diabetes prevention program: Most diabetes prevention programs are configured to receive referrals via conventional fax (over a phone line) or secure email. Complete the [referral form](#) and submit to a program as follows:

- A. If using a paper referral form, send via fax (over a phone line) or scan and email
- B. If the referral form is embedded in your EMR, either fax (over a phone line) or email using the EMR
 - Some diabetes prevention programs can also receive an e-fax (over the Internet)

Physicians and other health care providers should also use their independent judgment when referring to a diabetes prevention program.

Partner

Step 4 – Follow-up with patient: Contact patient and troubleshoot issues with enrollment or participation. At the next visit, ask patient about progress and encourage continued participation in the program.

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Point-of-care prediabetes identification

MEASURE

If the patient is age 40-70 (USPSTF criteria), is obese or overweight, and does not have diabetes, proceed to the blood test.

If the patient is age >18 and does not have diabetes, nor meet the criteria above, provide self-screening test, and if self-screening test reveals high risk, proceed to next step.

Review medical record to determine if BMI $\geq 24^*$ (≥ 22 if Asian) or history of GDM**

YES

NO

If no: Patient does not currently meet program eligibility requirements

Determine if a HbA1C, FPG or OGTT was performed in the past 12 months

YES

NO

Order one of the tests below:

- Hemoglobin A1C (HbA1C)
- Fasting plasma glucose (FPG)
- Oral glucose tolerance test (OGTT)

RESULTS

Diagnostic test	Normal	Prediabetes	Diabetes
HbA1C(%)	< 5.7	5.7–6.4	≥ 6.5
Fasting plasma glucose (mg/dL)	< 100	100–125	≥ 126
Oral glucose tolerance test (mg/dL)	<140	140–199	≥ 200

ACT

Encourage patient to maintain a healthy lifestyle.

Refer to diabetes prevention program, provide brochure.

Confirm diagnosis; retest if necessary.

Continue with exam/consult. Retest within three years of last negative test.

Consider retesting annually to check for diabetes onset.

Counsel patient re: diagnosis.

Initiate therapy.

PARTNER

Communicate with your local diabetes prevention program.

Contact patient and troubleshoot issues with enrollment or participation. At the next visit, ask patient about progress and encourage continued participation in the program.

Adapted from: New York State Department of Health. New York State Diabetes Prevention Program (NYS DDP) prediabetes identification and intervention algorithm. New York: NY Department of Health; 2012.

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** History of GDM = eligibility for diabetes prevention program.

Method 2:

Retrospective identification and referral

Step 1 – Query EMR or patient database

Measure

Query your EMR or patient database every 6–12 months using the following criteria:

A. Inclusion criteria:

- Age ≥ 18 years **and**
- BMI ≥ 24 (≥ 22 if Asian)* **and**
- A positive test result for prediabetes within the preceding 12 months:
 - HbA1C 5.7–6.4% **or**
 - Fasting plasma glucose 100–125 mg/dL **or**
 - Oral glucose tolerance test 140–199 mg/dL **or**
- Clinically diagnosed gestational diabetes during a previous pregnancy

B. Exclusion criteria:

- Current diagnosis of diabetes **or**
- Current Insulin use

Generate a list of patient names and other information required to make referrals:

- Gender and birth date
- Mailing address
- Email address
- Phone number

Act

Step 2 – Referral to diabetes prevention program

- Contact patients via phone, email, [letter](#) or postcard to explain their prediabetes status and let them know about the diabetes prevention program.
- Send relevant patient information to your local (or online) diabetes prevention program coordinator and have him/her contact the patient directly (may require [Business Associate Agreement](#)).
- Flag patients' medical records for their next office visit.

Physicians and other health care providers should also use their independent judgment when referring to a diabetes prevention program.

Partner

During the next office visit, discuss diabetes prevention program participation:

- If the patient is participating, discuss program experience and encourage continued participation
- If the patient has declined to participate, stress the importance of lifestyle change and continue to encourage participation (use the handout "[So you have prediabetes ... now what?](#)")

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Retrospective prediabetes identification

MEASURE

Query EMR or patient database every 6–12 months using the following criteria:

A. Inclusion criteria:

- Age ≥ 18 years **and**
- Most recent BMI ≥ 24 (≥ 22 if Asian)* **and**
- A positive lab test result within previous 12 months:
 - HbA1C 5.7–6.4% (LOINC code 4548-4) **or**
 - FPG 100–125 mg/dL (LOINC code 1558-6) **or**
 - OGTT 140–199 mg/dL (LOINC code 62856-0) **or**
- History of gestational diabetes (ICD-9: V12.21; ICD-10: Z86.32)

B. Exclusion criteria:

- Current diagnosis of diabetes (ICD-9: 250.xx; ICD-10: E10.x, E11.x, E13.x and O24.x) **or**
- Current Insulin use

Generate a list of patient names with relevant information

ACT

Use the patient list to:

- Contact patients to inform of risk status, explain prediabetes, and share info on diabetes prevention programs, **and/or**
- Send patient info to diabetes prevention program provider
 - Program coordinator will contact patient directly, **and**
- Flag medical record for patient's next office visit

PARTNER

Discuss program participation at next visit

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