Preventing type 2 diabetes in at-risk patients

Help your patients find ways to prevent type 2 diabetes through education, screening and local referral programs.

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CME CREDITS: 1.0

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How will this module help me identify prediabetes and prevent the onset of diabetes?

1. Provide tools and resources on screening, testing and referral
2. Learn from practices that have successfully implemented prediabetes screening and education programs
3. Identify evidence-based prevention programs for patient referral
4. Get answers to commonly asked questions
Many physicians now spend less time delivering direct patient care. This is primarily due to increasing administrative responsibilities that are a result of regulatory pressures along with evolving payment and care delivery models. In the average primary care practice, up to one-third of patients age 18 and above—and up to half age 65 and above—could be at risk for prediabetes. Physicians and their care teams play an important role in diabetes prevention.

Preventing type 2 diabetes in at-risk patients

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Objectives
At the end of this activity, participants will be able to:
1. Define the medical condition of prediabetes and treatment options for prediabetes
2. Identify patients with prediabetes
3. Educate patients at-risk for type 2 diabetes
4. Determine roles and responsibilities regarding diabetes prevention and practice workflow
5. Refer patients with prediabetes to an evidence-based diabetes prevention program

Target Audience
This activity is designed to meet the educational needs of practicing physicians and their care teams.

Statement of Need
Eighty-six million adults in the United States have prediabetes, but 90 percent of them are undiagnosed.1 Up to 30 percent of people with prediabetes will develop diabetes within five years.2,3 People with prediabetes also have an increased risk of heart disease and stroke.4 Early and intensive lifestyle intervention can prevent or delay diabetes in at-risk patients2,3 and has also demonstrated secondary prevention of microvascular and macrovascular complications. Physicians and their care teams play an important role in diabetes prevention. This diabetes prevention module presents strategies to help physicians as well as practice staff educate patients about their risk for developing diabetes and refer at-risk patients to an evidence-based diabetes prevention program. This module also addresses the need for helping physicians determine roles and responsibilities and practice flow for diabetes prevention in a clinical setting.

Statement of Competency
This activity is designed to address the following ABMS/ACGME competencies: practice-based learning and improvement, interpersonal and communications skills, professionalism, systems-based practice, interdisciplinary teamwork, quality improvement and informatics.

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Media Types
This activity is available to learners through Internet and Print.

References


PCMH recognition via Standard 4: Self-Care Support. B. Provide Referrals to Community Resources (3 points), NCQA Facilitating PCMH Recognition, 2011.


What is prediabetes?

Prediabetes is a condition in which blood glucose or hemoglobin A1C (HbA1C) levels are higher than normal but not high enough to be classified as diabetes. In the average primary care practice, up to one-third of patients age 18 and above—and up to half age 65 and above—could have prediabetes.

Eighty-six million adults in the United States have prediabetes, but 90 percent of them don’t know they have it! Up to 30 percent of people with prediabetes will develop diabetes within five years. Importantly, people with prediabetes also have an increased risk of heart disease and stroke.

What can be done to stop progression to diabetes?

Early and intensive lifestyle intervention can prevent or delay diabetes in at-risk patients and has also demonstrated secondary prevention of microvascular and macrovascular complications.

Physicians and their care teams play an important role in diabetes prevention. This diabetes prevention module presents strategies to help physicians and practice staff educate patients about their risk for developing diabetes and refer at-risk patients to an evidence-based diabetes prevention program. This one-page document – M.A.P. (Measure, Act, Partner) – can help you and your team determine roles and responsibilities regarding diabetes prevention and your practice workflow.

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

Five steps to help patients prevent diabetes

1. Create awareness
2. Identify patients with prediabetes
3. Educate at-risk patients
4. Refer patients to an evidence-based diabetes prevention program
5. Follow-up on weight loss progress
Create awareness

Among patients: Hang educational posters and distribute informational handouts, such as “Are you at risk for prediabetes?” in exam rooms or in waiting areas.

DOWNLOAD Are you at risk for prediabetes?

Among clinicians: Use this handout to raise awareness among colleagues and clinicians about the evidence-based diabetes prevention program and why it makes sense to screen and refer.

DOWNLOAD You can prevent type 2 diabetes

Identify patients with prediabetes

The most common blood tests used to identify people with prediabetes include a fasting plasma glucose or hemoglobin A1C (HbA1C).

DOWNLOAD ICD and CPT codes for prediabetes and diabetes screening

<table>
<thead>
<tr>
<th>DIAGNOSTIC TEST</th>
<th>NORMAL</th>
<th>PREDIABETES</th>
<th>DIABETES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HbA1C (%)</td>
<td>&lt; 5.7</td>
<td>5.7-6.4</td>
<td>≥ 6.5</td>
</tr>
<tr>
<td>Fasting plasma glucose (mg/dL)</td>
<td>&lt; 100</td>
<td>100-125</td>
<td>≥ 126</td>
</tr>
</tbody>
</table>

- Encourage patient to maintain a healthy lifestyle.
- Continue with exam/consult. Retest within three years of last negative test.
- Refer to diabetes prevention program, provide brochure.
- Consider retesting annually to check for diabetes onset.
- Confirm diagnosis; retest if necessary.
- Counsel patient re: diagnosis.
- Initiate therapy.

You can prospectively identify patients with prediabetes by having patients complete a diabetes risk assessment before their visit and by arranging for pre-visit lab testing before a planned care appointment (see pre-visit planning module). This will allow face-to-face engagement with the patient about the results at the visit.

You can also retrospectively identify patients by setting up a query in your electronic health record (EHR). Use the one-page infographic – Retrospective prediabetes identification – to set up a prediabetes registry using your EHR. Your patients with a BMI ≥ 24 kg/m² (≥ 22 for Asians) and blood glucose or HbA1C levels in the prediabetes range qualify for an evidence-based diabetes prevention program. (Read on to learn more about referring patients to this program.)

DOWNLOAD Retrospective prediabetes identification

* 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.
Q&A

What are the features of a diabetes prevention program?

Diabetes prevention programs emphasize behavior modification, managing stress and peer support. Some of the components are:

- A structured program of at least 16 sessions in the first six months, followed by monthly sessions for the next six months
- Facilitation by a trained lifestyle coach
- Use of an evidence-based curriculum

What is the evidence behind the diabetes prevention program?

The diabetes prevention program is a lifestyle intervention based on research funded by the National Institutes of Health that showed, among those with prediabetes, a 58 percent reduction in the number of new cases of diabetes overall, and a 71 percent reduction in new cases for those over age 60. Researchers published the findings of the Diabetes Prevention Program (DPP) study in the February 7, 2002, issue of the *New England Journal of Medicine*. Additional studies have since been published showing the efficacy of the DPP.

Are diabetes prevention programs covered by insurance?

Currently, there is limited insurance coverage for diabetes prevention programs. However, coverage for diabetes prevention programs continues to grow. To determine if your patient has coverage for a diabetes prevention program, ask the patient to contact his or her insurance carrier.

Does metformin prevent diabetes in at-risk adults?

Pharmacological agents, such as metformin, α-glucosidase inhibitors, orlistat, and thiazolidinediones, have each been shown to decrease incident diabetes to various degrees. Metformin has the strongest evidence base and demonstrated long-term safety for diabetes prevention. Although metformin is less effective than lifestyle modification for diabetes prevention, the DPP study found that metformin can reduce the risk of developing diabetes by 31 percent over three years. Lifestyle modification with diet and exercise is approximately twice as effective as metformin for preventing diabetes, especially in older patients. Metformin was shown to be most effective in preventing or delaying the development of type 2 diabetes in younger, heavier people with prediabetes. Metformin was also effective for lowering the risk of diabetes in women who have had gestational diabetes. Clinical guidelines recommend that metformin can be considered for diabetes prevention in people younger than 60 years who are at very high risk for progressing to diabetes, such as women with a history of gestational diabetes or obese individuals.

Educate patients at risk for diabetes

Focus your education on four key messages:

- Prediabetes is a serious condition: It raises your risk of heart attack and stroke and poses a very high risk of eventually progressing to full-blown diabetes
- Prediabetes is treatable: The good news is that most patients with prediabetes can avoid or delay developing diabetes by losing weight, becoming more active and eating more healthfully
Evidence-based diabetes prevention programs are available. These programs help people with prediabetes accomplish these healthy changes, lose weight and avoid developing diabetes.

Q&A

How much does it cost to participate in the diabetes prevention program?

While costs may vary, the average cost per participant is approximately $400 to $500 for the yearlong program. These costs can be covered in a variety of ways. Some program providers offer monthly payment plans and discounts based on ability to pay. A growing number of private health insurers also offer coverage for patient participation in diabetes prevention programs. Ask patients to contact their insurance provider to determine coverage.

How can I explain prediabetes to patients so they understand?

You might consider saying: “Your blood sugar is higher than normal, but not at a level of diabetes. We call this prediabetes. Prediabetes is serious because it increases your risk of getting type 2 diabetes. Prediabetes can also double your chances of suffering from heart disease or a stroke. The good news is that prediabetes is reversible. There are things you can do now to prevent prediabetes from progressing to diabetes. Studies show that you can cut your chance of developing diabetes in half by losing XX pounds (5-7 percent of body weight), eating healthier and exercising regularly.”

Use a patient handout, such as “So you have prediabetes...now what?” to help you reinforce these messages.

DOWNLOAD So you have prediabetes...now what?

What if my patient does not have access to a diabetes prevention program?

While few alternatives have been shown to be as effective, if a patient with prediabetes does not have access to an evidence-based diabetes prevention program, an alternative is to refer the patient for both nutrition and physical activity counseling. Both of these services will generally be covered by insurance for patients with obesity and prediabetes.

Steven Reed, MD

Park Nicollet Primary Care Physician who refers patients to the diabetes prevention program in his community
Refer patients to an evidence-based diabetes prevention program

If the patient is interested and ready to make healthy lifestyle changes, then refer him or her to an in-person, virtual or online diabetes prevention program.

Locate diabetes prevention programs in your community by:

A. **Calling 1-800-DIABETES**
B. **Using the CDC’s registry to find in-person, virtual or online diabetes prevention programs that are part of the CDC’s National Diabetes Prevention Program**
C. **Locating a YMCA diabetes prevention program**

The YMCA is the largest U.S. provider of in-person diabetes prevention programs. The YMCA uses the CDC model for diabetes prevention and has been found to be as effective as the original diabetes prevention program when tested in clinical trials.

The AMA and CDC, along with physicians and care teams at multiple physician practices in communities within four states, have developed a step-by-step toolkit on how to screen, test and refer high-risk patients to diabetes prevention programs in their communities. The toolkit includes multiple resources that practices can adapt to best meet their needs. Prevent Diabetes STAT: Screen, Test, Act - Today™.

**DOWNLOAD Access the toolkit**

**Q&A**

**How can I get a diabetes prevention program in my community?**

Physicians and members of their care teams can advocate for community organizations or their own health system to offer the diabetes prevention program. You may want to speak with the director of your local YMCA, hospital, state health department or other interested community organization about the need to address prediabetes locally and encourage them to offer in–person, virtual or online diabetes prevention programs. It’s important that they follow the CDC’s evidence-based curriculum, and become a CDC-recognized provider.

**We don’t have all that time to spend with them in classes and teach them about their eating habits and counting calories and sugar, so they actually go spend time with a person in a group session and they can get all that from them.**

**Fana Medical Group**

Miguel Fana, MD

Yolanda Freeman
Fana Medical Group Practice Manager

**“**

I believe that physicians, nurse practitioners and physician assistants really need to send their patients so that they can get the benefit of this program. This program works. We saw it in our patients.
Follow-up on weight loss progress

Plan a three- or six-month follow-up with patients to assess their progress towards their weight loss goals and to address barriers to weight loss and a healthy lifestyle.

Q&A

How can I get feedback on my patient from a diabetes prevention program?

Most programs send reports of participant progress to referring clinicians after the eighth and 16th group sessions. In addition, participants in the program complete periodic self-evaluations that referring clinicians can request directly from patients. You can also contact the diabetes prevention program in the area and request to receive information about your patients’ participation.

 AMA Pearls

Prevention is a team sport

Diabetes prevention is a team sport. This one-page document – M.A.P. (Measure, Act, Partner) – can help you and your team determine roles and responsibilities regarding diabetes prevention and your practice workflow.

Using the EHR to identify patients with prediabetes

You can use blood values you already have recorded in your EHR to identify patients with prediabetes. Use this one-page infographic—Retrospective prediabetes identification—to set up a prediabetes registry using your EHR.

Receive performance improvement (PI-CME) credits

Click here to participate in a PI-CME activity on prediabetes screening and treatment for a maximum of 20 AMA PRA Category 1 Credits™.

Conclusion

Integrate new diabetes prevention strategies, tools and resources into your practice workflow. Screen and test patients for prediabetes, and refer them to a diabetes prevention program that’s part of the CDC’s National Diabetes Prevention Program. The learnings in this module can help you create links between your clinic and evidence-based community resources to reduce chronic illness and improve outcomes for your patients.
To demonstrate completion of this module and claim AMA PRA Category 1 Credits*, please visit: www.stepsforward.org/PreventingDiabetes

Get implementation support

The AMA is committed to helping you implement the solutions presented in this module. If you would like to learn about available resources for implementing the strategies presented in this module, please call us at (800) 987-1106 or click here to send a message to StepsForward@ama-assn.org

References


