# Preventing diabetes with the establishment of a health system policy for screening and referral to a community-based program

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Improving Health Outcomes



















#### Presenter disclosures

# Janet Williams No relationships to disclose















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#### Learning objectives

- Describe the AMA's Prediabetes Screening and Referral Initiative
- Compare referral models and outline benefits and barriers for implementation
- Discuss the benefits of screening for prediabetes and referring to diabetes prevention program















#### AMA Efforts to Prevent Diabetes

#### Goal:

Galvanize efforts to increase screening for prediabetes and raise participation in evidence-based diabetes prevention programs

#### Approach:

- Engage physicians across the U.S. in diabetes prevention
- Help link clinical practices to diabetes prevention programs
- Develop, test and disseminate relevant tools and resources
- Advocate for inclusion of lifestyle interventions in health benefits

















## Diabetes Impact on Clinical Practice

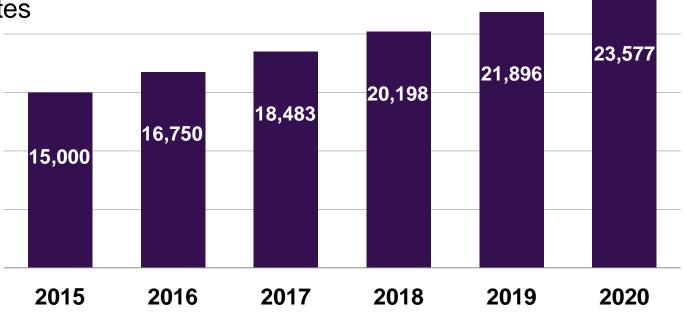
One-third of patients over 18 in the average primary care practice have prediabetes

In the absence of any lifestyle intervention:

Close to 1/3 of people with prediabetes will develop diabetes in 3 years

## Diabetes Impact on Clinical Practice

Over the next 5 years, a typical large clinical practice could experience a 57% increase in the number of patients with diabetes





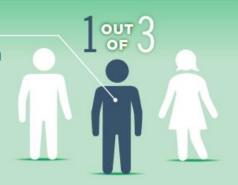




#### **Americans** have diabetes



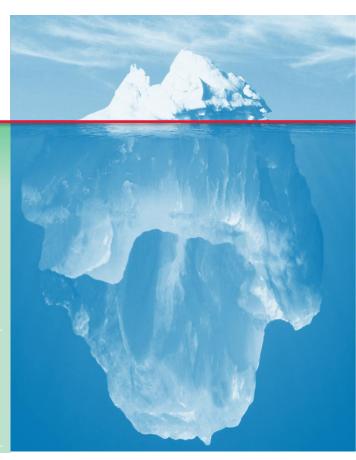
86 million American adults-more than 1 out of 3-have prediabetes





people with prediabetes do not know they have it

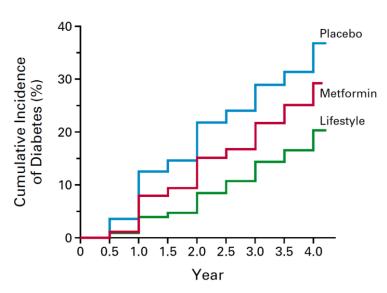
Source: CDC



## The Diabetes Prevention Program (DPP)

- NIH-funded 3-arm RCT (N=3,234) comparing placebo vs metformin vs intensive lifestyle counseling
- Lifestyle: ↓ diet, ↑ physical activity
- Incidence of diabetes

Placebo	11.0 cases/100 person year
Metformin	7.8 (31% reduction)
Lifestyle	4.8 (58% reduction)
Knowler et al. N Engl	J Med 2002;346:393-403.



**Figure 2.** Cumulative Incidence of Diabetes According to Study Group.



## Diabetes prevention programs in the real-world

The YMCA diabetes prevention program



Web-based with coaching



Smart phone apps



















#### Framework for Preventing Type 2 Diabetes

#### **A**wareness

 Increase public and clinician awareness of prediabetes as a treatable condition

#### Coverage

Increase health plan coverage for diabetes prevention programs

### **A**vailability

• Increase the availability of diabetes prevention programs

## **S**creening/Referral

• Increase clinical screening and referrals

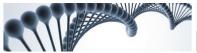
#### **Enrollment**

 Increase participation in diabetes prevention programs that are part of CDC's National Diabetes Prevention Program

















#### Key Challenges

- Awareness: >90% with prediabetes are unaware of condition
- Affordability: limited coverage by health insurers (public/private)
- Availability: limit of in-person programs
- Physician buy-in: increasing prediabetes screening and referrals to evidencebased programs













## Benefits of referring to National DPP

- 58% reduction in incidence of diabetes <sup>1</sup>
- 20-30% reduction in onset of stroke and heart attacks<sup>2</sup>
- 25% reduction in medication use for hypertension and hyperlipidemia<sup>3</sup>
- 1-2% reduction in absenteeism (missed work days) and productivity loss<sup>2</sup>

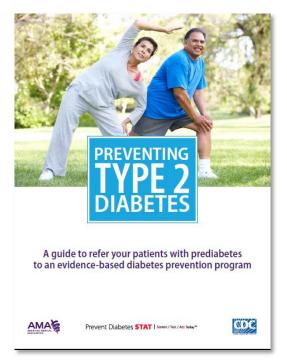


<sup>&</sup>lt;sup>1</sup> Knowler WC, Barrett-Connor E, Fowler SE, et al. Diabetes Prevention Program Research Group. Reduction in the incidence of type 2 diabetes with lifestyle intervention or metformin. *N Engl J Med.* 2002;346(6):393-403.

<sup>&</sup>lt;sup>2</sup> Dall, Timothy M., et al. "Value of Lifestyle Intervention to Prevent Diabetes and Sequelae." Am J Prev Med. 2015;48(3): 271-80.

<sup>&</sup>lt;sup>3</sup> Ratner R, Goldberg R, Haffner S, et al. Impact of intensive lifestyle and metformin therapy on cardiovascular disease risk factors in the diabetes prevention program. *Diabetes Care*. 2005;28(4):888-94.







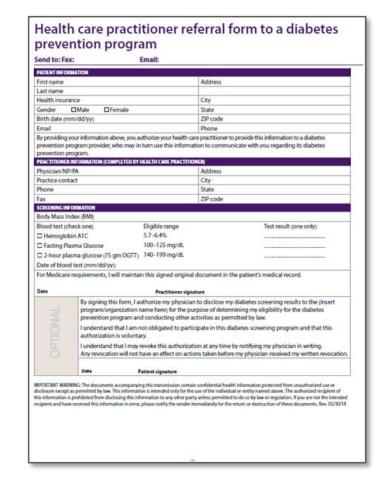


#### Tools for primary care:

- Engage clinical care teams
- Identify high-risk patients
- Educate and engage patients
- Connect with programs
- Refer to local programs

#### Connecting strategies:

- Clarify DPP expectations
- Referral guide (online)
- Convene stakeholders



## A model for clinical-community linkages that supports patients



The
Retrospective
algorithm helps
Dr. Reed query
his EHR

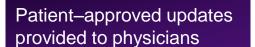




Identify those at risk



Refer to a diabetes prevention program





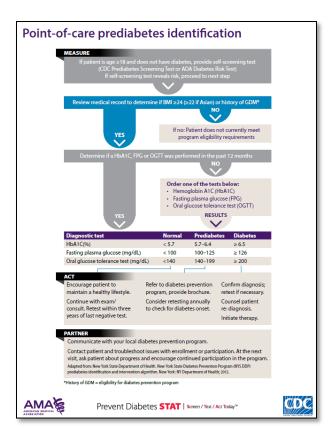


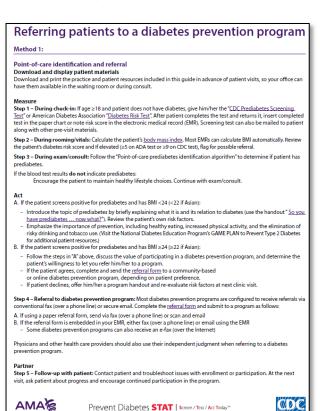
### Referral methods:

Building Clinical-Community Linkages to Prevent Diabetes



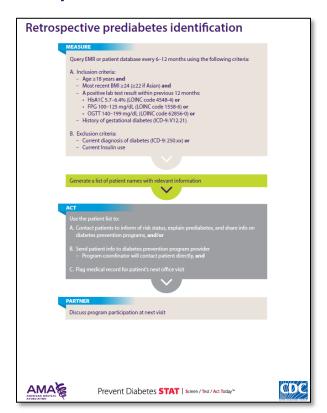
#### Point-of-care identification and referral method

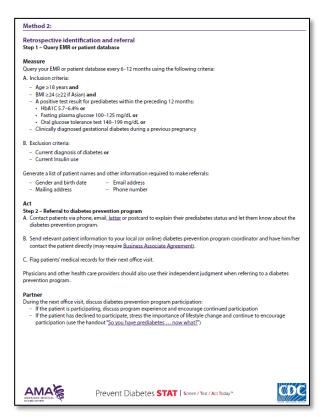






#### Retrospective identification and referral method







## Retrospective

- More inclusive
- Reduced Burden

## Point-of-Care

- Immediate
- High Touch















#### Lessons Learned

- Integrating screening/referral into practice workflow is key to success
- Care coordinators or equivalent staff can help offload physicians
- Where possible, identifying patients with prediabetes in the EHR and contacting them via phone or mail can increase DPP enrollment
  - Calls from DPP provider staff, following practice outreach, can boost enrollment
- Patients want to hear about risks of diabetes complications





Park Nicollet Clinic collaboration with diabetes prevention program



## preventdiabetesstat.org

Prevent Diabetes **STAT** 















WHAT YOU SHOULD KNOW ABOUT PREDIABETES



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