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You Don't Have to Get Diabetes

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Jefferson College of Population Health

You Don't Have to Get Diabetes

Department of Family and Community Medicine Resident Grand Rounds
Mitch Kaminski, MD, MBA
Neva White, DNP, CRNP, CDCES
July 30, 2020

Tip of the lceberg



US Diabetes*
34.2 M (10.5%)
2.8 M un-dx (8.2%)

US Pre-Diabetes 88 M (>35%) 74 M un-dx (84%)

* 2018 ADA data, 13% of adults



 $\hfill \Box$ When poll is active, respond at $\hfill \textbf{PollEv.com/mitchellkami567}$

Text MITCHELLKAMI567 to 22333 once to join

What is your favorite color?

Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app



You are seeing a patient whose BMI is 36. His/her first hemoglobin A1c is 5.9

At this point, what word comes to mind?

How likely is this patient to develop diabetes?

20%

50%

70%

nearly 100%

Do you feel like you are mopping the floor?





Turn off the faucet!





Today's objective:

You will tell this patient, with full confidence

"You Don't Have to Get Diabetes"





10.1x higher

5.2x higher

2.3x higher

50% higher

Diagnosed diabetes is associated with a significant cost burden

Estimated economic cost of diabetes - 2017

\$327
BILLION

\$237B in direct medical costs
\$90B in reduced productivity

Estimated individual cost of diabetes



\$9,600/yr. avg. medical expenses attributed to diabetes2.3X higher expenses than those w/o diabetes

American Diabetes Association. Economic Costs of Diabetes in the US in 2017. Diabetes Care. 2018; 41(5): 917-928. https://doi.org/10.2337/dci18-0007



Diabetes and COVID-19

- Current evidence suggests that diabetes is a risk factor for more severe COVID-19
- Indirect effects of COVID-19 include changes to health care and daily lives

Centers for Disease Control and Prevention. Coronavirus Disease 2019 (COVID-19): People of Any Age with Underlying Medical Conditions. https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html. Accessed 7/14/20.

Hartmann-Boyce J, Morris E, Goyder C, et al. Diabetes and COVID-19: risks, management, and learnings from other natural disasters. Diabetes Care. June 16, 2020. https://doi.org/10.2337/dc20-1192.



What can a family physician do?

- Would you prescribe a medicine, taken once a week, that could delay or even avoid your patient's progression to type 2 diabetes?
- There would be no out-of-pocket cost to your patient, but potential side effects include increased patient self-efficacy and self-esteem, and an opportunity for greater community interaction.

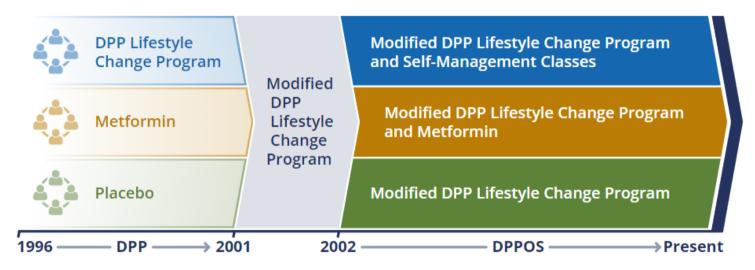


Introducing... The National Diabetes Prevention Program (DPP)



Historical starting point: DPP study

DPP & DPPOS Timeline



2010: National DPP created

2018: CMS covers

participation

The DPP Program Itself

- ✓ Year-long hour-length classes months 1-6: at least 16 classes offered months 7-12: at least 6 classes offered make-up classes offered
- ✓ In-person, virtual, distance learning, or combination
- ✓ Weight, activity minutes tracked

The structure, group support and learning are the "secret formula" in the DPP program...

Understanding the National DPP Lifestyle Change Program



Trained lifestyle coaches teach group classes



Programs deliver a CDC-approved curriculum



Emphasis on prevention and empowerment through a personal action plan



Quality assurance through the Centers for Disease Control and Prevention (CDC); programs are required to submit data on participant outcomes

*Key standard for CDC recognition: Average participant body weight loss of 5%.

Prediabetes Screening, Testing, and Referring



U.S. Preventive Services Task Force (USPSTF) abnormal glucose recommendation



Grade B recommendation

- Screen all adults ages 40-70 AND who have a BMI ≥ 25
- Screen with a fasting glucose, hemoglobin A1C or oral glucose tolerance test

USPSTF standards suggest testing patients every 3 years

Final Recommendation Statement: Abnormal Blood Glucose and Type 2 Diabetes Mellitus: Screening. U.S. Preventive Services Task Force. April 2018. https://www.uspreventiveservicestaskforce.org/Page/Document/RecommendationStatementFinal/screening-for-abnormal-blood-glucose-and-type-2-diabetes. Accessed February 14, 2020.

USPSTF abnormal glucose recommendation

Consider testing adults of a lower age of BMI if risk factors are present



Family history

Family history of type 2 diabetes includes first-degree relatives (a person's parent, sibling or child)



Medical history

Gestational diabetes Polycystic ovary syndrome



Racial & ethnic minorities

African Americans
American Indians
Alaskan Natives
Asian Americans
Hispanics or Latinos
Native Hawaiians or Pacific Islanders

Final Recommendation Statement: Abnormal Blood Glucose and Type 2 Diabetes Mellitus: Screening. U.S. Preventive Services Task Force. April 2018. https://www.uspreventiveservicestaskforce.org/Page/Document/RecommendationStatementFinal/screening-for-abnormal-blood-glucose-and-type-2-diabetes. Accessed February 14, 2020.

USPSTF abnormal glucose recommendation



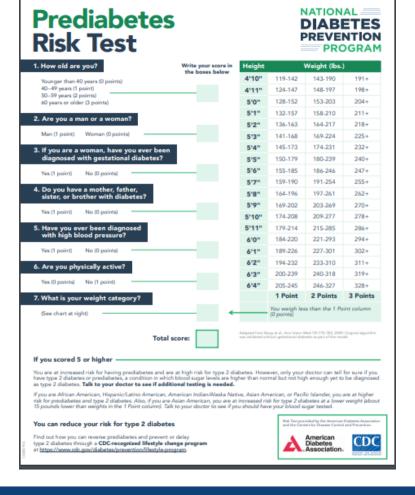
Offer or refer patients with abnormal glucose to intensive behavioral counseling interventions to help promote a healthy diet and physical activity

Final Recommendation Statement: Abnormal Blood Glucose and Type 2 Diabetes Mellitus: Screening. U.S. Preventive Services Task Force. April 2018. https://www.uspreventiveservicestaskforce.org/Page/Document/RecommendationStatementFinal/screening-for-abnormal-blood-glucose-and-type-2-diabetes. Accessed February 14, 2020.

Who qualifies for the National DPP Lifestyle Change Program?

5.7%-6.4%

HbA1c



Enrolling in the National DPP Lifestyle Change Program

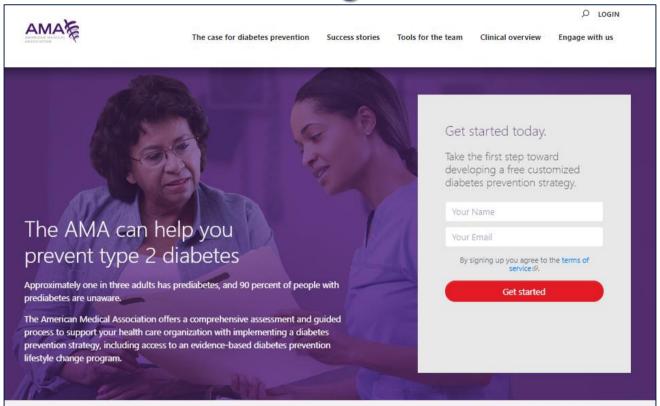
Participants must meet ALL the following:

- ✓ Be 18 years or older
- ✓ Overweight or obese
- ✓ Not diagnosed with diabetes
- ✓ Not pregnant

And ONE of the following:

- ✓ Blood test within the past year:
- ✓ Previous diagnosis of gestational diabetes
- ✓ An elevated score on a prediabetes risk test/questionnaire

AMAPreventDiabetes.org







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Prioritizing Diabetes Prevention

my practice after I drank the (sugar free) Kool-aid

Philadelphia Diabetes Prevention Collaborative

Lose Weight and Prevent Diabetes

Center for Urban Health Diabetes Prevention Program Local Master Trainer

Neva White DNP, CRNP, CDE

Virtual Lifestyle Coach Training

- The Diabetes Prevention Programs are led by certified
 Lifestyle Coaches, trained by CDC approved training entities
- Two Day 8 hour training

Virtual Diabetes Prevention Program Lose weight and Prevent Diabetes

Centers for Disease Control National Diabetes Prevention Program

Full Recognition Program

Prevent T2 curriculum



Prevent T2 Curriculum

Module Topic	Theme
Get Active to Prevent T2 Track Your Activity Eat Well to Prevent T2	Skill
Get Support Take Charge of Your Thoughts	Emotions
Shop and Cook to Prevent T2 Eat Well Away from Home	Environment
Keep Your Heart Healthy	Health and Wellness



The lifestyle change program curriculum emphasizes self-monitoring, self-efficacy, and problem-solving; provides for coach feedback; includes participant materials to support program goals; and calls for participant weigh-ins to track progress.

A Patient's Story

LISA



Distance Learning Using Zoom 2018-2019 Pilot Outcomes (Jefferson data)

Enrollment	A total of enrolled 25
DPP Retention	84% (n=21) of individuals enrolled, attended at least 5 core sessions (month 1-6; 16 sessions)
	65% (n=15) completed at least 5 core sessions and 5 post core (month 7-12; 6-12 sessions)

Of the 15 individuals who completed the program:

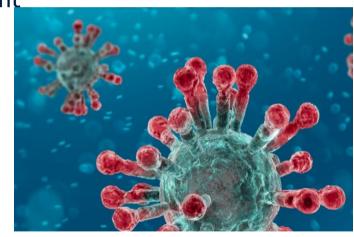
Weight Loss	87% (n=13) lost at least 5% of their starting body weight
Physical Activity	87% (n= 13) achieved over 150 minutes per week of physical activity

Virtual Program Delivery in the Time of Covid-19

 Facilitated Program: the virtual program is consistent with the in-person CDC recognized curriculum

Better retention rate and improved engagement

- Rich discussions
- No Travel
- No concerns about the weather
- Easier to secure Guest Speakers
- A way to stay connected to the outside world!



Distance Learning Using Zoom Closing the Digital Divide

- Selecting a Platform
 - Zoom (Jefferson Approved)
- Training
 - (One on One Training for each participant new to Zoom)
- Regular Email/ Phone Reminders

Distance Learning Using Zoom Closing the Digital Divide

- February 2020 (Cohort 1)
- 32 enrolled
- 5 alumni enrolled
- Currently 97% participation
- 100% alumni still active
- July 15, 2020 (Cohort 2)
- 31 enrolled

Where is DPP being delivered?

- Anywhere a group of eligible participants can convene typically 10-20 participants
- Currently, due to COVID19, all programs are virtual
- Delivery sites and partners are continually evolving
- Programs are initiated when sufficient registration is achieved



Standard Referral Process

A primary goal is to make the referral and enrollment process as simple and seamless as possible for the healthcare provider, patient, and DPP provider/supplier.

Healthcare Provider (HCP)

- Screen, Test, Refer
- Counsel patient on reason for referral -*very important*
- Provider or patient identifies a program cation

DPP Provider / Supplier

- Receives referral from HCP by mail, fax, secure email or EHR or secure FTP
- Contacts patient to enroll
- Tracks weight and attendance
- Ideally, notifies HCP of enrollment

Patient completes oneyear program

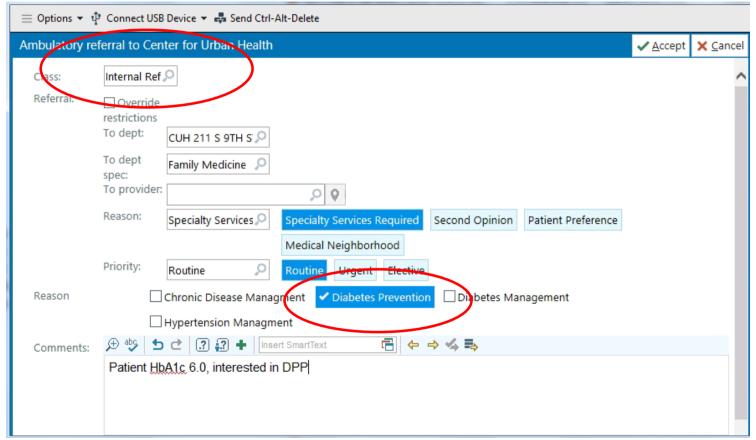
- Ideally, DPP provider communicates completion to HCP provider
- Patient shares experience with



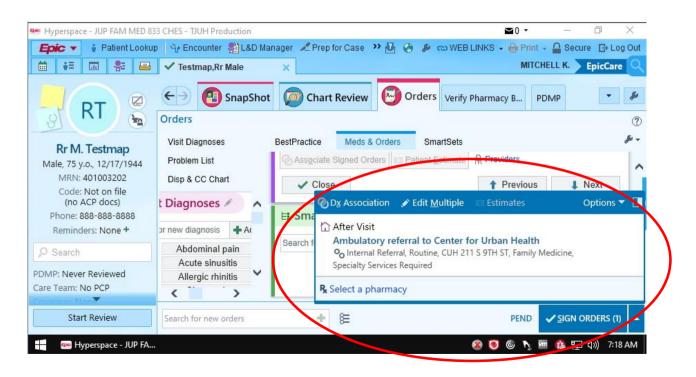




In EPIC "Orders" type "Center for Urban Health"



Sign Order for Referral





Referrals to DPP Lifestyle Change Programs

- 1. If you have existing successful referral pathways continue to use them.
- 2. Best practices for referrals to lifestyle change programs are evolving.
- 3. One size does not fit all a variety of programs are needed to serve diverse populations.
- 4. Social determinants play a significant role in successful enrollment and retention in, and completion of DPP.
- 5. COVID-19 has created a significant shift in program delivery.

Goal - streamline the steps required to make referrals to and enroll in DPP



Only Together Can We Prevent Type 2 Diabetes







Philadelphia Diabetes Prevention Collaborative

Questions?

Jefferson College of Population Health

