# Reducing the Clinical and Economic Impact of Diabetes: Translating Evidence-Based Medicine into Clinical Practice

### Felicia Hill-Briggs, PhD, ABPP

Professor of Medicine and Senior Director of Population Health Research & Development, Johns Hopkins University and Medicine

> Immediate Past President, American Diabetes Association Health Care & Education



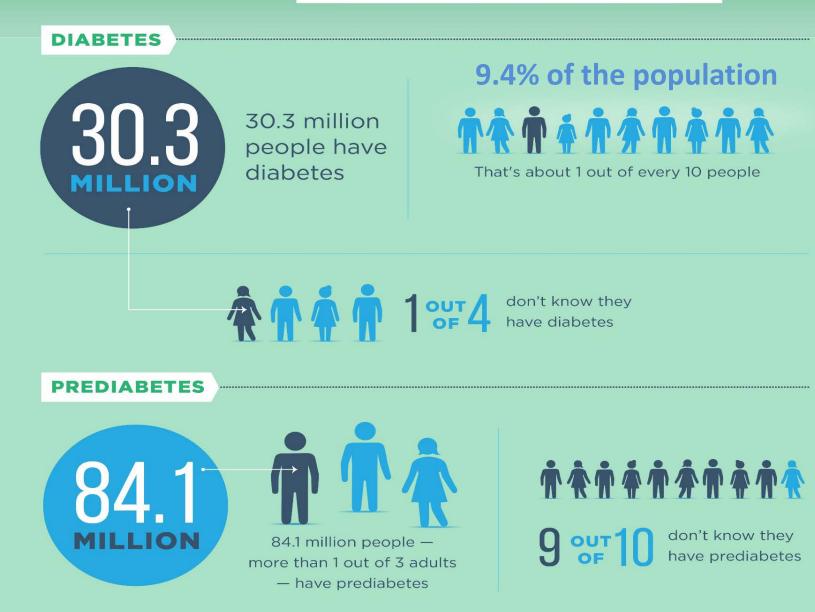
American Diabetes Association

U.S. Diabetes Facts and Figures 2017 Update

> CDC. National Diabetes Statistics Report, 2017. cdc.gov/diabetes/statistics

American Diabetes Association.





# **Clinical Costs of Diabetes**

Total of 7.2 million hospital discharges/year with diabetes as any listed diagnosis among adults (18 years or older)

1.5 million for major cardiovascular diseases (70.4 per 1,000 persons with diabetes), including:

- 400,000 for ischemic heart disease (18.3 per 1,000 persons with diabetes)
- 251,000 for stroke (11.5 per 1,000 persons with diabetes)

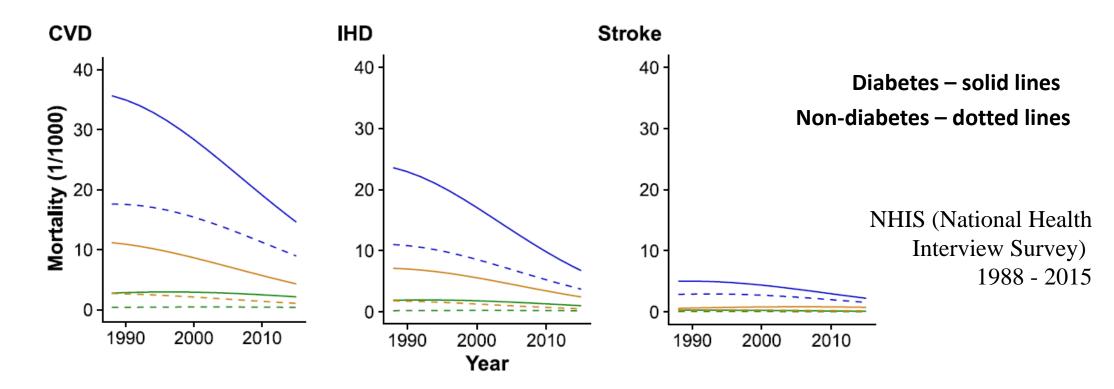
108,000 for a lower-extremity amputation (5.0 per 1,000 persons with diabetes)

### A total of 14.2 million ED visits

- Hypoglycemia (11.2 per 1,000 persons with diabetes)
- Hyperglycemic crisis (9.5 per 1,000 persons with diabetes)

CDC. National Diabetes Statistics Report, 2017. cdc.gov/diabetes/statistics





**Figure 1**—Trends in mortality by age-groups and select CVDs among adults with diabetes. Among U.S. adults both with and without diabetes by three age-groups (20–54, 55–65, and  $\geq$ 65 years of age), the sex- and race/ethnicity-adjusted death rates from major CVD including IHD and stroke have decreased steadily from 1988 to 2015, especially among adults  $\geq$ 65 years of age with diabetes. The solid lines represent the mortality of adults with diabetes, and the dashed lines represent the mortality of adults without diabetes. The green lines represent the mortality of adults 20–54 years of age, the orange lines represent the mortality of adults 55–65 years of age, and the blue lines represent the mortality of adults  $\geq$ 65 years of age.

American Diabetes Association.

Cheng et al (CDC). Diabetes Care 2018.



# Health Care and Public Health Spending in the U.S.: Top 10 Conditions

Dieleman JL, Baral R, Birger M, et al. US Spending on Personal Health Care and Public Health, 1996-2013. JAMA. 2016;316(24):2627–2646

	Condition	2013 Spending	Annualized Rate of Change, 1996-2013, %	2013 Spending by Type of Care, %				2013 Spending by Age, %		
Rank <sup>a</sup>		(Billions of Dollars), \$		Ambulatory Care	Inpatient Care	Pharmaceuticals	Emergency Care	Nursing Facility Care	<20 Years	≥65 Years
	All conditions	2100.1	3.5	33.6	33.2	13.7	4.9	9.3	11.1	37.9
1	Diabetes mellitus	101.4	6.1	23.5	9.5	57.6	0.4	9.1	1.7	42.8
2	Ischemic heart disease	88.1	0.2	23.9	56.5	11.3	0.9	7.3	0.2	61.2
3	Low back and neck pain	87.6	6.5	60.5	28.8	4.1	4.2	2.5	2.0	28.8
4	Treatment of hypertension	83.9	5.1	45.8	1.3	41.2	1.8	9.9	0.7	53.4
5	Falls	76.3	3.0	29.7	34.3	0.6	22.7	12.7	10.3	48.2
6	Depressive disorders	71.1	3.4	53.1	11.6	32.1	0.5	2.8	7.1	13.3
7	Oral disorders <sup>b</sup>	66.4	2.9	1.0	1.5	0.4	1.2	0.1	13.1	20.7
8	Sense organ diseases <sup>c</sup>	59.0	2.8	85.4	2.3	8.6	2.1	1.6	9.0	54.0
9	Skin and subcutaneous diseases <sup>d</sup>	55.7	3.5	52.0	20.7	12.6	6.0	8.6	14.4	29.8
10	Pregnancy and postpartum care <sup>e</sup>	55.6	2.9	47.6	50.5	0.6	1.3	0.0	6.4	0.0

American Diabetes Association.

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# Economic Costs of Diabetes in the U.S., 2017

American Diabetes Association. Economic Costs of Diabetes in the U.S. in 2017. Diabetes Care 41: May 2018

- \$327 billion/year is the total economic cost of diagnosed diabetes
  - \$237 billion in direct medical costs
  - \$90 billion in reduced productivity
- Costs attributable to diabetes: 1 in 7 health care dollars
- Care for people with diabetes: 1 in 4 health care dollars
- Medical costs for people with diabetes are 2.3 times higher than for people without diabetes.



American Diabetes Association.

# **Increasing Economic Costs of Diabetes**

- After adjusting for inflation, economic costs of diabetes increased 26% from 2012 to 2017 due to the increased prevalence of diabetes and the increased cost per person with diabetes.
- The total cost of insulin and other medications to control blood glucose increased by 45% from 2012 to 2017, to a total of \$31 billion
- The cost of insulin alone increased by 110%



# **Emotional and Psychosocial Costs of Diabetes**

- Up to 45% of people with diabetes report **Diabetes Distress**
- 1 in 4 people with diabetes has **Depressive disorder**
- 1 in 5 people with diabetes has Anxiety disorder
- 3 in 4 older adults with diabetes will experience Dementia





Psychosocial Care for People With Diabetes: A Position Statement of the American Diabetes Association

Diabetes Care 2016;39:2126–2140 | DOI: 10.2337/dc16-2053

CrossMark

Deborah Young-Hyman,<sup>1</sup> Mary de Groot,<sup>2</sup> Felicia Hill-Briggs,<sup>3</sup> Jeffrey S. Gonzalez,<sup>4</sup> Korey Hood,<sup>5</sup> and Mark Peyrot<sup>6</sup>



# Years of Life, Work, Wages, and Productivity

Bonner et al. Lancet Diabetes Endocrinology, June 2017

Global total economic burden of diabetes is 1.31 trillion USD (1.8% of the world GDP):

- > 49% of the cost is due to drop-out from the workforce
- ➢ 46% is due to early death
- > 4% is due to being absent from work (sick-days)
- > 2% is due to reduced productivity while at work



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# **Diabetes Population Health Management**

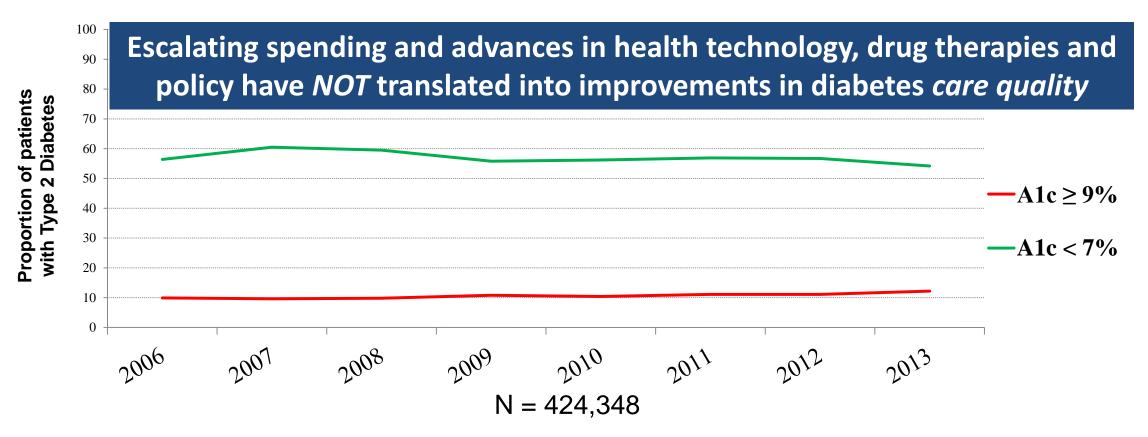


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# **Opportunity to Improve Health Care Quality in Diabetes**

Type 2 Diabetes Trends in the U.S. 2006-2013





American Diabetes Association.

Adapted from: Lipska KJ, Yao X, Herrin J, et al. Trends in drug utilization, glycemic control, and rates of severe hypoglycemia, 2006-2013. *Diabetes Care*. doi:10.2337/dc16-0985.

# **Population Health** *Management*



Initiatives are designed around management of cohorts of patients and defined patient populations within the context of health care and healthcare systems. Initiatives are generally designed to improve the clinical outcomes and quality metrics of patient populations using multi-level interventions within healthcare settings.

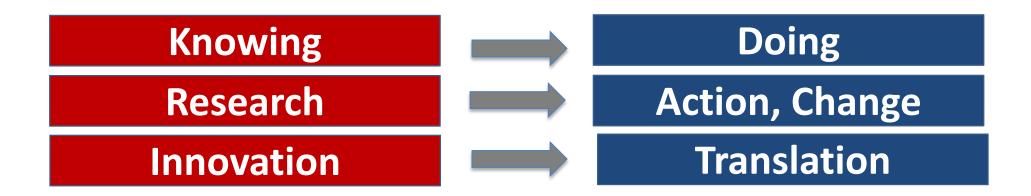


# **ADA Diabetes INSIDE**



### INspiring System Improvement with Data-Driven Excellence

Consultation service to health care systems to translate over 78 years of our science and advocacy into action by supporting our nation's healthcare systems to improve population outcomes for people with diabetes.



Tailors interventions to the needs, goals, resources and demographics of our healthcare partners and populations served, meeting value-based care measures



#### Diabetes INSIDE 2012-2018 A National Strategy to Effect Sustainable Change

#### Single Health Systems

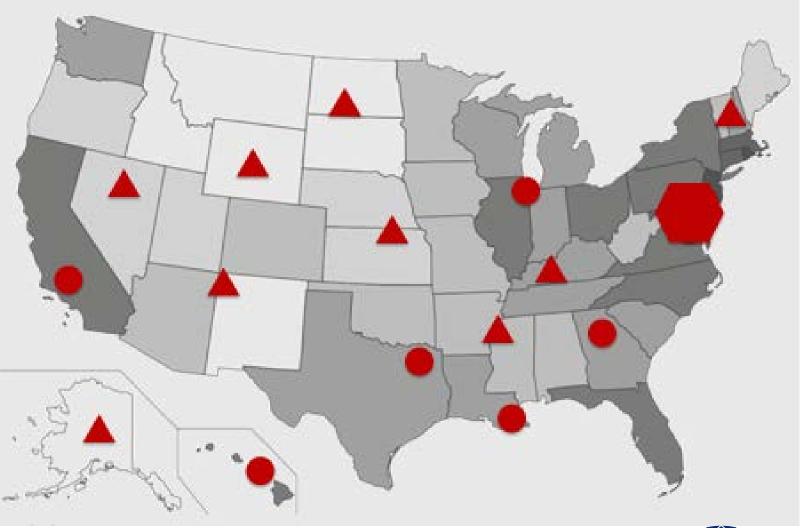
- 8 health systems over 6 years
- Diverse patient populations and resources
- All achieved improvements

#### Multi-Sector Collaboratives

- Focus on urban centers
- Groups of health systems, industry, payers, communities working together
- Pilot collaborative in Greater Philadelphia

#### **Rural Systems**

- Partner with HRSA, VA and States
- Virtualize programmatic interventions to maximize reach
- American Diabetes Association.



Population Density (low to high)



Interventions target HEDIS (Healthcare Effectiveness Data and Information Set) quality metric of A1C > 9.0%

# 

Achieved 19% decrease in proportion of patients with A1C > 9% in 6 months (p < 0.005)

• From 12% to 10.6%

### **Specific interventions:**

- Monthly reports of patients with A1C >9% for providers
- Provider and patient engagement
- Nurse navigators following patients with A1C > 9% (education, appt scheduling)



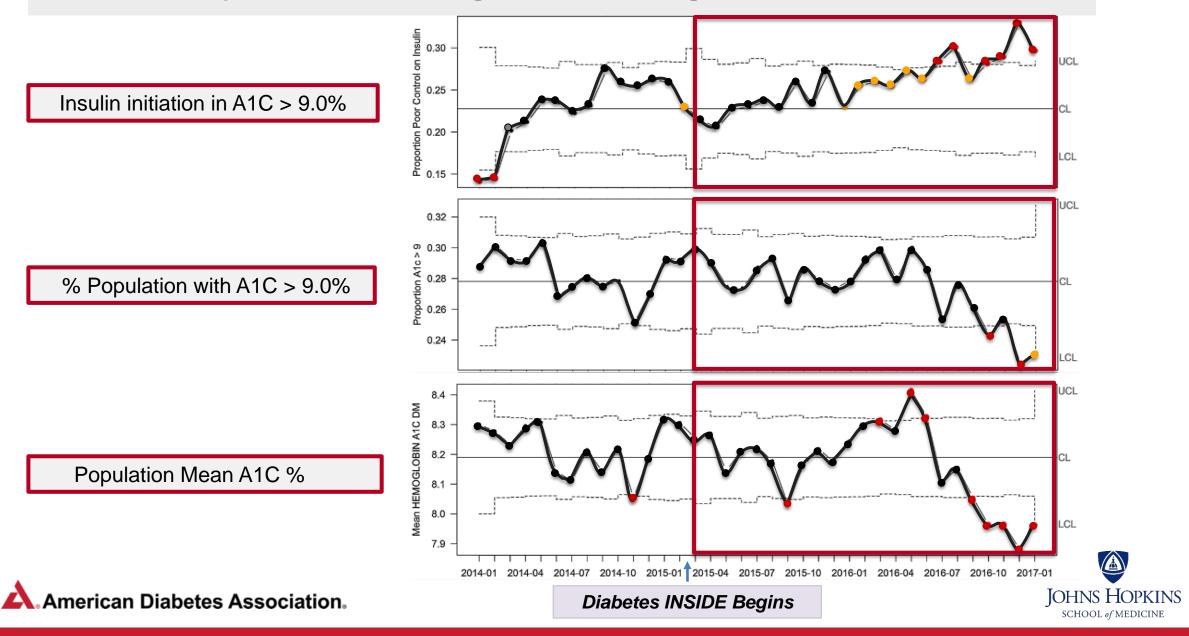
Insulin use in poorly-controlled patients (A1C > 9.0) increased by 24% over 2 years from program start

From 36% to 44% of patients with A1C >9% on insulin

### **Specific interventions:**

- EMR updates for identification and tracking
- Shared medical appointments (SMAs) for patients, with nurse educators
- Pre-visit planning; education & training

#### Parkland Health & Hospital System Achieved Significant Population Health Improvements Working with ADA through Diabetes INSIDE



### **Diabetes INSIDE**

### **Economic projections for improved diabetes control**

If health center patients with uncontrolled diabetes reduced their HbA1c (a measurement of glucose control) by 1.25% there is a potential to save more than \$3 Billion over three years.



Fitch K, Pyenson BS, Iwasaki K. J Manag Care Pharm 2013 Oct: 19(8): 609-20



American Diabetes Association.

### **Diabetes INSIDE Awards**

The American Diabetes Association received the

- 2015 Award for Outstanding Continuing Education Outcomes Assessment
- 2016 Award for Outstanding Innovation in Continuing Professional Development

from the Alliance of Continuing Education in the Health Professions (ACEHP)



### **Mental Health Provider Diabetes Education Program**

ADA and American Psychological Association (APA) partnered to create the first ever, diabetes-focused, continuing education (CE) program for licensed mental health providers.

Upon successful completion of the Continuing Education program, the provider can:

- Become an ADA member at the Associate level
- Receive 12 CE credits from the APA
- Become eligible for inclusion on the Mental Health Provider Referral Directory
- Access the ADA's new listserv for behavioral health and psychosocial topics
- Access monthly "mentoring" calls with experts in the field



#### Mental Health Provider Diabetes Education Program

American Diabetes Association.

### **Mental Health Provider Referral Directory**

Living with diabetes is exhausting. People need support and empowerment to live their best life.

ADA is pleased to announce the launch of the new Mental Health Provider Referral Directory, which can help you locate mental health professionals in your area with demonstrated expertise in diabetes care.

https://professional.diabetes.org/ada-mental-health-provider-directory



Mental Health Provider Diabetes Education Program

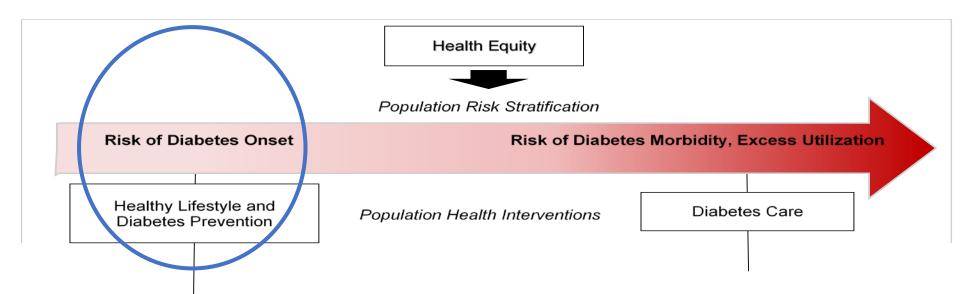
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# **Diabetes Population Health Improvement**



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# **Interventions for Population Health** *Improvement*



- Proactive initiatives with goals of *prevention*, *risk reduction*, *health equity*, *and health promotion*
- Reduce need for care before individuals enter the healthcare system
- Reduce reliance on healthcare services by addressing the social and behavioural determinants that give rise to care that could have been avoided



# **DIABETES PREVENTION** The National Diabetes Prevention Program (DPP)







### **Prediabetes**

Fasting Blood Sugar		A1C Test	
126 mg/dL or More	Diabetes	6.5% or More	
100 to 125 mg/dL	Prediabetes	5.7 to 6.4%	
Less than 100 mg/dL	Normal	Less than 5.7%	

American Diabetes Association.



DIABETES PREVENTION PROGRAM RESEARCH GROUP\*

#### ABSTRACT

Background Type 2 diabetes affects approximately 8 percent of adults in the United States. Some risk factors — elevated plasma glucose concentrations in the fasting state and after an oral glucose load, overweight, and a sedentary lifestyle — are potentially reversible. We hypothesized that modifying these factors with a lifestyle-intervention program or the administration of metformin would prevent or delay the development of diabetes.

Methods We randomly assigned 3234 nondiabetic persons with elevated fasting and post-load plasma glucose concentrations to placebo, metformin (850 mg twice daily), or a lifestyle-modification program with the goals of at least a 7 percent weight loss and at least 150 minutes of physical activity per week. The mean age of the participants was 51 years, and the mean body-mass index (the weight in kilograms divided by the square of the height in meters) was 34.0; 68 percent were women, and 45 percent were members of minority groups.

Results The average follow-up was 2.8 years. The incidence of diabetes was 11.0, 7.8, and 4.8 cases per 100 person-years in the placebo, metformin, and lifestyle groups, respectively. The lifestyle intervention reduced the incidence by 58 percent (95 percent confidence interval, 48 to 66 percent) and metformin by 31 percent (95 percent) confidence interval, 17 to 43 percent), as compared with placebo; the lifestyle intervention was significantly more effective than metformin. To prevent one case of diabetes during a period of three years, 6.9 persons would have to participate in the lifestyle-intervention program, and 13.9 would have to receive metformin.

Conclusions Lifestyle changes and treatment with metformin both reduced the incidence of diabetes in persons at high risk. The lifestyle intervention was more effective than metformin. (N Engl J Med 2002; 346:393-403.)

Copyright @ 2002 Massachusetts Medical Society.

YPE 2 diabetes mellitus, formerly called non-insulin-dependent diabetes mellitus, is a serious, costly disease affecting approximately 8 percent of adults in the United States.<sup>1</sup> Treatment prevents some of its devastating complications<sup>2,3</sup> but does not usually restore normoglycemia or eliminate all the adverse consequences. The diagnosis is often delayed until complications are present.<sup>4</sup> Since current methods of treating diabetes remain inadequate, prevention is preferable. The hypothesis that type 2 diabetes is preventable<sup>5,6</sup> is supported by observational studies and two clinical trials of diet, exercise, or both in persons at high risk for the disease<sup>7,8</sup> but not by studies of drugs used to treat diabetes.<sup>5</sup>

The validity of generalizing the results of previous prevention studies is uncertain.<sup>9</sup> Interventions that work in some societies may not work in others, because social, economic, and cultural forces influence diet and exercise. This is a special concern in the United States, where there is great regional and ethnic diversity in lifestyle patterns and where diabetes is especially frequent in certain racial and ethnic groups, including American Indians, Hispanics, African Americans, Asians, and Pacific Islanders.<sup>10</sup>

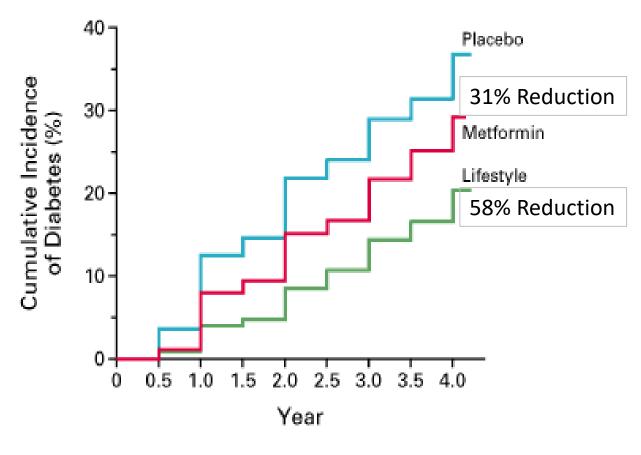
The Diabetes Prevention Program Research Group conducted a large, randomized clinical trial involving adults in the United States who were at high risk for the development of type 2 diabetes. The study was designed to answer the following primary questions: Does a lifestyle intervention or treatment with

The writing group (William C. Knowler, M.D., Dr.P.H., Eitzabeh Rarress-Connor, M.D., Sarah E. Rowler, Ph.D., Richard F. Hamman, M.D., Dr.P.H., John M. Lachin, Sc.D., Elizabesh A. Walker, D.N.Sc., and David M. Nashan, M.D.) takes responsibility for the comens of this article Address reprint nequests to the Diabese Prevension Program Coordinaing Cenner, Biosaaisis Cenner, George Washington University, 6110 Exceture Bird, Saise 750, Rockville, MD 20852.

\*The members of the Diabetes Prevention Program Research Group are listed in the Appendix.

N Engl J Med, Vol. 346, No. 6 · February 7, 2002 · www.nejm.org · 393

#### Incidence of Diabetes in Placebo and Two Treatment Groups





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N Engl J Med 2002; 346:393-403

### **U.S. DPP Long-Term Effects on Diabetes Incidence**

- At 10 years after the trial . . .
  - Lifestyle Intervention maintained a 34% reduction in incident diabetes relative to placebo
  - o Metformin 18% reduction
  - Lifestyle maintained greater cardiometabolic protection and less medication use
- At 15 years after the trial . . .
  - Lifestyle Intervention maintained a 27% reduction in incident diabetes relative to placebo
  - o Metformin 18% reduction
  - o Lifestyle maintained cardiometabolic protection, despite les medication use



National Prioritizing of Problem and Evidence

# Federal Agency and Health Organization Prioritizing of Diabetes Prevention

Centers for Disease Control and Prevention (CDC) and National Institutes of Health (NIH)/NIDDK

- Translational research grants and contracts for DPP in real-world settings
- Addition of prediabetes to national reports and statistics
- American Diabetes Association (ADA)
  - Addition of Standards of Care chapter on Lifestyle Intervention for Prevention of Type
     2 Diabetes
  - ADA Governmental Affairs advocacy for policy prioritization



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### **The Diabetes Prevention Act of 2009**

#### Policy

111тн CONGRESS 1st Session	H. R. 4124
To amend the Public Health Service Act	vith respect to the prevention of diabetes, and for other purposes.
	IN THE HOUSE OF REPRESENTATIVES November 19, 2009
Mrs. Davis of California (for herself, Ms. Committee on Energy and Commerce	ICHARDSON, Mr. LOEBSACK, and Ms. BORDALLO) introduced the following bill; which was referred to the
	A BILL
To amend the Public Health Service Act	vith respect to the prevention of diabetes, and for other purposes.

Amends the Public Health Service Act to direct the Secretary of Health and Human Services (HHS), acting through the Director of the <u>Centers for Disease Control and Prevention (CDC)</u>, to establish a **national diabetes prevention program targeted at persons at high risk for diabetes**.



Dissemination and Implementation

# CDC Establishes the U.S. National Diabetes Prevention Program (DPP) as Public Health

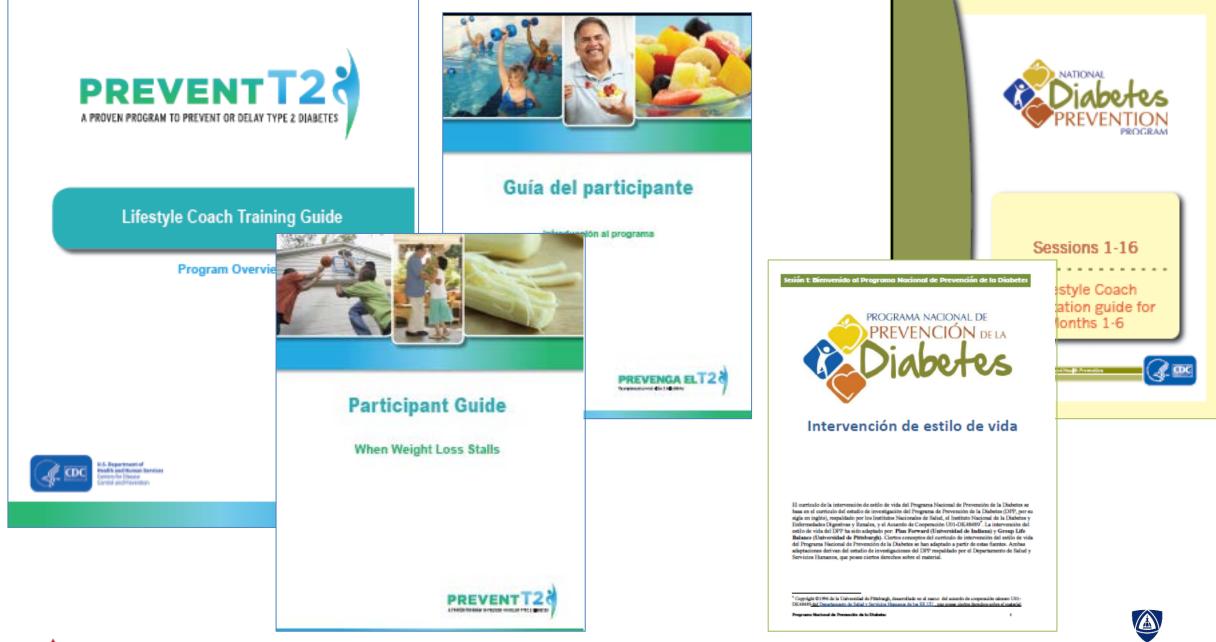
https://www.cdc.gov/diabetes/prevention/index.html

### **National DPP Lifestyle Change Program Dissemination**

- 1. Standardized, structured curriculum
- 2. New workforce: DPP Lifestyle Coach, with training and CDC certification
- 3. Specific goals, performance metrics, and reporting requirements
- 4. Use of community-based intervention settings rather than reliance solely on health care access
- 5. Insurance reimbursement to community settings and DPP lifestyle coaches



#### American Diabetes Association.



American Diabetes Association.

JOHNS HOPKINS SCHOOL of MEDICINE

# **Eligibility Criteria for DPP**

- Adults (18 years of age or older)
- Overweight or obese
  - Body mass index (BMI) of  $\geq 24 \text{ kg/m}^2$  ( $\geq 22 \text{ kg/m}^2$ , if Asian descent)
- Prediabetes status (ADA Standards of Care)

```
A1C 5.7 – 6.4%
Fasting Glucose: 100 mg/dL - 125 mg/dL
Impaired Glucose Tolerance
```

- Or, history of gestational diabetes
- Or, Type 2 Diabetes Risk Test (paper, online)



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### **CDC Initial Performance Metrics for DPP months 1 - 6**

Session attendance during months 1-6	Minimum of 9 sessions attended, on average	Attendance averaged over all participants attending a minimum of 4 sessions	Every 12 months
Documentation of body weight	On average, participants must have had body weights recorded at a minimum of 80% of the sessions attended	Documentation of body weights based on all participants attending a minimum of 4 sessions	Every 12 months
Documentation of physical activity minutes	On average, participants must have had physical activity minutes recorded at a minimum of 60% of all sessions attended	Documentation of physical activity minutes based on all participants attending a minimum of 4 sessions	Every 12months
Weight loss achieved at six months	Average weight loss achieved by participants attending a minimum of 4 sessions must be a minimum of 5% of "starting" body weight.	Weight loss averaged over all participants attending a minimum of 4 sessions. The first and last weights recorded for each participant during months 1-6 will be used to calculate this measure.	Every 12 months



### **CDC Initial Performance Metrics for DPP months 7 - 12**

Participant average session attendance during the months 7-12	Minimum of 3 sessions in months 7- 12	Attendance averaged over all participants attending a minimum of 4 sessions	Every 12 months
Weight loss achieved at 12 months	Average weight loss achieved over the entire 12 month intervention period by participants attending a minimum of 4 sessions must be a minimum of 5% of "starting" body weight.	Weight loss averaged over all participants attending a minimum of 4 sessions during the entire intervention period. The first and last weights recorded for each participant during months 1-12 will be used to calculate this measure.	Every 12 months

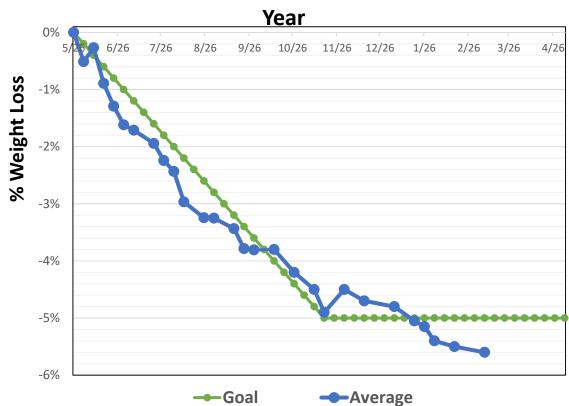


Facilitators in Vulnerable Populations

# **Medicare Coverage for DPP (as Public Health)**

Medicare Effectiveness and Cost Effectiveness Trial (CMMI)

#### Average 5% Weight Loss at 6 months and 1





prevention model supported by the Affordable

# Cost savings: \$2,650/enrollee over 15 months compared to beneficiaries not in program

Sylvia M. Burwell announced that the independent Office of the Actuary in the Centers for Medicare & Medicaid Services (CMS) certified that expansion of the Diabetes Prevention Program, a model funded by the Affordable Care Act, would reduce net Medicare spending. The expansion was also determined to improve the quality of patient care without limiting coverage or benefits. This is the first time that a preventive service model from the CMS Innovation Center has become eligible for expansion into the Medicare program.

Currently, about <u>30 million - PDF</u> Americans have type 2 diabetes, resulting in two deaths every five minutes in this country. Additionally, <u>86 million - PDF</u> Americans have a high risk of developing diabetes, because one in every three adults has prediabetes, a condition that arises when blood glucose levels are higher than normal but not high enough for a diagnosis of diabetes. Prediabetes



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### Medicaid National DPP Demonstration

Developing and Evaluating Effective Models to Obtain Medicaid Coverage for the National Diabetes Prevention Program (National DPP) through Medicaid Integrated Care Organizations

In July 2015, the Centers for Disease Control and Prevention (CDC) Division of Diabetes Translation (DDT) awarded a cooperative agreement through the CDC Office of State, Tribal, Local, and Territorial Support (OSTLTS) to the National Association of Chronic Disease Directors (NACDD) for a project designed to test the feasibility and effectiveness of various models to obtain Medicaid coverage for the National DPP. Two to three states will be selected to work with Medicaid Managed Care Organizations (MCOs), Accountable Care Organizations (ACOs), and/or Health Homes to develop and implement a coverage model for the National DPP. The coverage models will be evaluated and successful models will be translated for use by other states.

#### Background

While authorities to provide the National DPP (http://www.cdc.gov/diabetes/prevention/) as a covered preventive service through managed care options exist, they have not always been clearly articulated or prioritized. Further, the Medicaid landscape is changing as states respond to provisions in the Affordable Care Act (ACA) regarding health delivery and transformation, including new requirements related to quality measures, value-based purchasing, risk-sharing, access, and prevention. Through this project, states will determine how to leverage opportunities to obtain coverage for the National DPP, either alone or as part of a bundled package of chronic disease preventive services, to Medicaid beneficiaries with prediabetes through Integrated Care Models, including MCOs, ACOs, and Health Homes.



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### Example of Community DPP Effectiveness: Johns Hopkins Brancati Center Average % Weight Loss at 12 Months



# **DPP Resources**



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### https://nccd.cdc.gov/toolkit/diabetesimpact



### DIABETES PREVENTION IMPACT TOOLKIT

Use this Impact Toolkit to project the health and economic effects of the National DPP lifestyle change program on your population at risk for diabetes. For technical details on the Impact Toolkit and how to use it, or See the <u>HELP</u> page for a complete list of Impact Toolkit resources.

To get started, choose one of the modules below.



Provides estimates of:

- Total cost of delivering the DPP to a covered population
- Total health benefit resulting from the program
- Life years gained and qualityadjusted life years saved
- Cost-effectiveness of the lifestyle change program
- Return on investment, if applicable



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### Online Risk Test <u>www.diabetes.org/risktest</u>

-	t risk for <b>2 diabe</b>	tes?			Ameri Diabe Assoc		
		WRITE YOUR SCORE IN THE BOX.	Height	,	Weight (lbs.)	3	
-	u?		4'10"	119-142	143-190	191+	
Less than 40 yea 40-49 years (1 po	and the second		4' 11"	124-147	148-197	198+	
50-59 years (2 p			5'0"	128-152	153-203	204+	
60 years or older			5'1"	132-157	158-210	211+	
. Are you a man	or a woman?		5'2"	136-163	164-217	218+	
Man (1 point)	Woman ( <mark>O points)</mark>		5131	141-168	169-224	225+	
	man, have you ever been		5′4″	145-173	174-231	232+	
diagnosed with Yes (1 point)	gestational diabetes?		5151	150-179	180-239	240+	
	No (O points)		5'6"	155-185	186-246	247+	
	mother, father, sister or abetes?		5'7"	159-190	191-254	255+	
Yes (1 point)	No (O points)		5181	164-196	197-261	262+	
. Have vou ever l	been diagnosed with high		5191	169-202	203-269	270+	
blood pressure	e?		5' 10"	174-208	209-277	278+	
Yes (1 point)	No (O points)		5'11-	179-214	215-285	286+	
6. Are you physically active?			6'0"	184-220	221-293	294+	
Yes (O points)	No (1 point)		6'1"	189-226	227-301	302+	
	eight category?		6´2″	194-232	233-310	311+	
See chart at right	ht.		6131	200-239	240-318	319+	
f you scored !	5 or higher:	ADD UP	б'4″	205-245	246-327	328+	
•	risk for having type 2	YOUR SCORE.		1 point	2 points	3 points	
idea between conjy your doctor can tell for sure if you do have type 2 diabetes or prediabetes, a condition in which blood glucose levels are higher than normal but not yet high enough to be diagnosed as diabetes. Talk to your doctor to see if additional testing is needed.					h less than t column: <mark>0 pc</mark>		
			Adapted from Bang et al., Ann intern Med 15:772–788, 2009. Original algorithm was validated withour gescultornal bibbetes as part of the model.				
Americans, Hispanic	ore common in African s/Latinos, Native Americans, d Native Hawaiians and	type 2 dia	oetes. Smi	all steps ma	age your ri ake a big di		
Higher body weight increases diabetes risk for everyone. Asian Americans are at increased diabetes risk at lower body weight than the rest of the general public (about 15 pounds lower).		For more info	in helping you live a longer, healthier life. For more information, visit us at <b>diabetes.org/risktest</b> or call <b>1-800-DIABETES (800-342-2383).</b>				

American Diabetes Association.

- Online Risk Test takes less than one minute to complete
- Connects people to care and resources
   IF HIGH RISK (SCORE ≥ 5)
  - How to discuss diabetes with a doctor
  - Information to register for a local or online diabetes prevention program

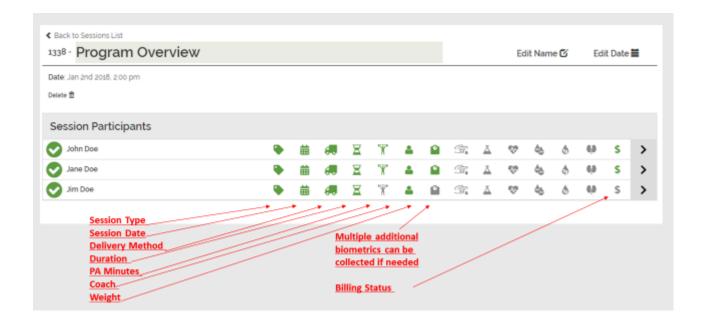
### IF LOW RISK (SCORE < 5)

- Healthy living information and programs
- Caregiver toolkits and services
- Advocate tools
- Invitations to re-screen periodically

### National DPP Support New ADA Resource: DPP Express Documentation Platform

https://professional.diabetes.org/content-page/dpp-express-diabetes-prevention-program-charting-platform

- HIPAA and HI TECH compliant
- CDC 2018 DPP Standards and CMS MDPP reimbursement requirements
- Document CDC required DPP session data and ability to document additional biometrics/data points
- Generate CDC Recognition CSV reports
- Billing alert when DPP participants meet Medicare reimbursement requirements
- Platform is available to all. Nominal fee and ADA ERP discount.

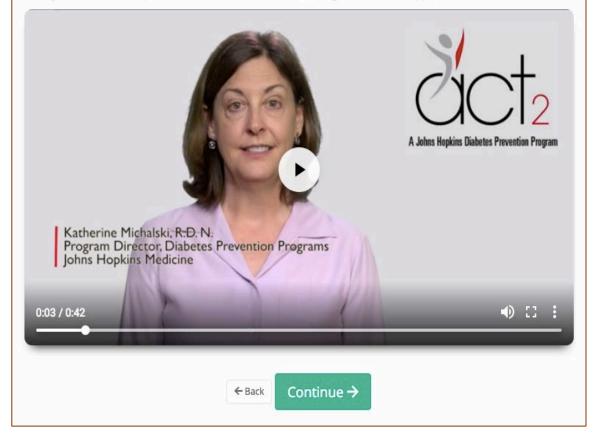




# Johns Hopkins Online (Virtual) DPP

#### Welcome!

Kathy Michalski - Director of Intervention: act2 Program Johns Hopkins Medicine



### **Today's Meeting Focus**

During this introductory pre-meeting, we will:

- · Get to know one another;
- · Talk about how this program was developed and what prediabetes means;
- · Review program goals;
- · Discuss each of our roles and responsibilities week to week;
- · Introduce keeping track of our foods and our weight;
- Determine if the program is right for you.



First, let's take a few minutes to get to know one another.

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Felicia Hill-Briggs



2018 Health Care & Education Presidential Address: The American Diabetes Association in the Era of Health Care Transformation

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This address was delivered by Felicia Hill-Briggs, PhD, ABPP, President, Health Care & Education of the American Diabetes Association (ADA) at the ADA's 78th Scientific Sessions in Orlando, FL, on 23 June 2018. Diabetes has become a high-priority condition in the current era of health care transformation due to diabetes and prediabetes prevalence rates, suboptimal diabetes outcomes at the health care system and population levels, and high health care and public health costs attributed to diabetes. Population health is the path forward for the ADA to



🗛 American Diabetes Association.



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American Diabetes Association.