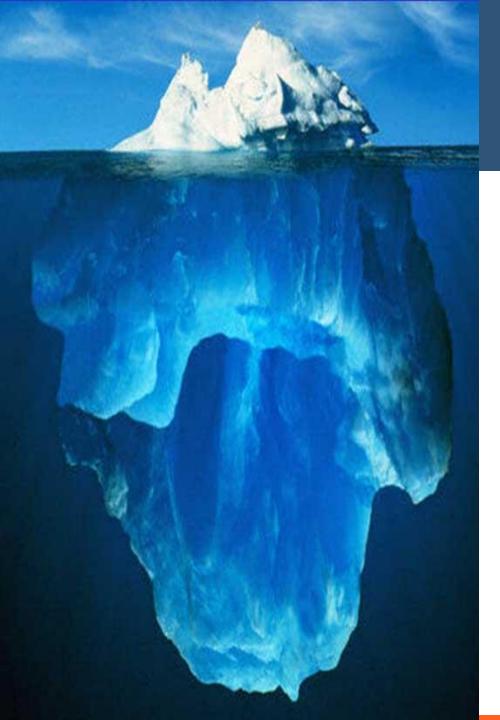
Diabetes **Prevention in Massachusetts:** Prediabetes and the **Diabetes Prevention** Program



Diabetes Prevention and Control www.mass.gov/dph/diabetes Massachusetts Department of Public Health



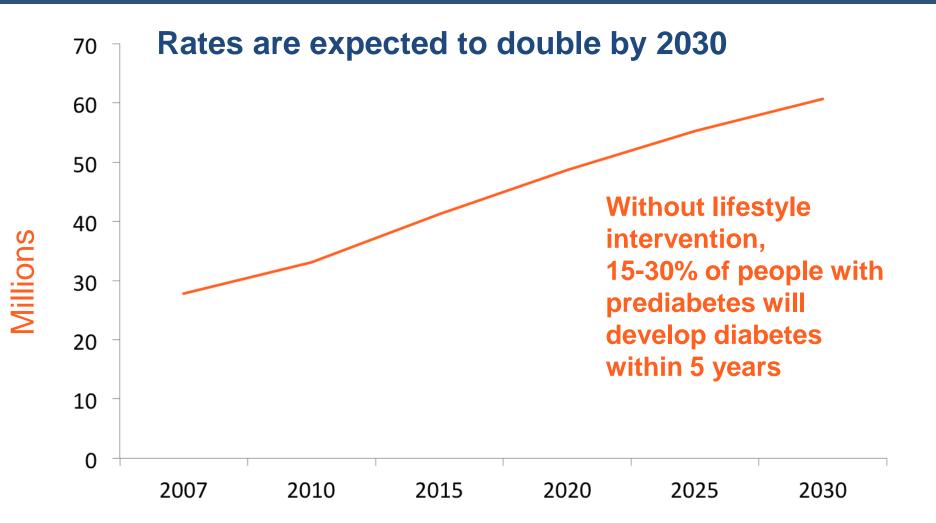


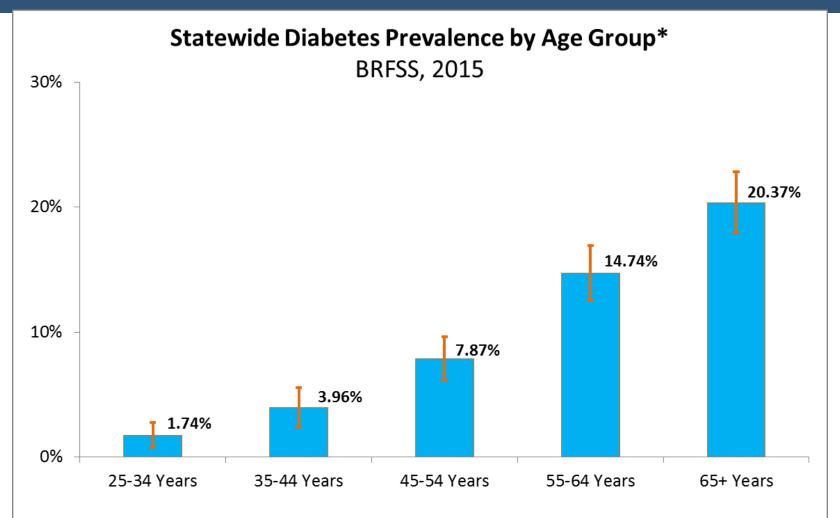
29 million with Diabetes

86 million with Prediabetes

Only 11% are aware they have prediabetes!

Current Projections of Cases of Diabetes in the United States by 2030





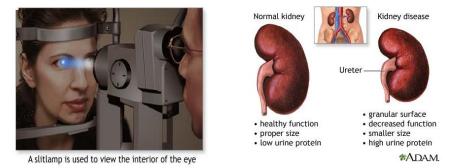
* Age group 18 - 24 failed stability rules.

Financial Costs of Diabetes

- \$245 billion dollars in US diabetes related expenses in 2012
 - 176 Billion in Medical Costs + 69 Billion in reduced productivity
- People with diabetes have 2.3x the medical costs as those without
 - People with diabetes spend about \$13,700 a year on medical costs: \$7,900 of which is directly related to their diabetes

Personal Costs of Diabetes

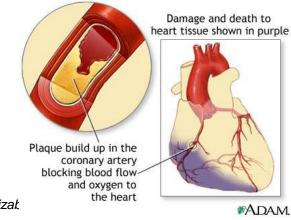
- Retinopathy (blindness)
- Nephropathy (kidney problems)
- Feet ulceration and/or amputations



ADAM.

- Heart attack
- Stroke





Acknowledgment: Adapted from the Diabetes Outreach Services Campaign, (1991) Queen Elizak

Diabetes Centre, Woodville South SA.

Prediabetes in the Elderly

50% of Adults over the age of 65 have prediabetes

MA Prediabetes Prevalence and Awareness

In Massachusetts, **1.8** million adults or **35%** of the population have prediabetes.

Only 7% are aware of their condition.

Possible Reasons for Prediabetes Knowledge Gap

- Lack of patient awareness
- Lack of provider awareness
- Lack of screening
- Lack of testing



- Lack of communication between patient and provider
- Lack of systems for coding/payment

Patient Awareness



www.DolHavePrediabetes.org



Provider Awareness

Increasing Awareness of Prediabetes: Screening, Prevention & Treatment

PREDIABETES

Definition, Prevalence and Risk Factors

- Prediabetes is a condition in which an individual's blood glucose levels are higher than normal but not high enough to be classified as type 2 diabetes.
- Fasting blood glucose: 100-125 mg/dL
- Oral Glucose Tolerance Test: 140-199 mg/dL
- HbA1c: 5.7-6.4%
- · The three primary risk factors for diabetes include:
- Being overweight
- Over the age of 45
- Family history of diabetes
- Without making the lifestyle changes noted below, 11% of adults with prediabetes will develop type 2 diabetes within 3 years; 15-30% will go on to develop type 2 diabetes within 5 years:
- Improvements in diet
- Increased physical activity
- Smoking cessation
- Stress reduction

Screening and Diagnosis

 Medical providers can conduct clinical screenings that effectively detect prediabetes such as fasting plasma glucose (FPG), Hemaglobin A1c (HbA1c), and/or oral glucose tolerance testing (OGTT), especially in people with BMI levels denoting overweight/obese (BMI ≥ 25kg/m²; if Asian, BMI ≥ 23kg/m²).

In the United States, 86 million adults or

37% of the population have prediabetes.

In Massachusetts, 1.8 million adults or

35% of the population have prediabetes.

Only 11%

are aware

of their

condition.

Only 7%

are aware

of their

condition.

- Non-clinical screening tools, based on self-identified risk assessments, have been promoted and made available through the National Diabetes Prevention Program (<u>http://www.cdc.gov/diabetes/prevention/pdf/prediabetestest.pdf</u>).
- The ICD-10 includes a more prevalent billable code (R73.09) that can be used to indicate a diagnosis of prediabetes (or other abnormal glucose). This new code is expected to make it easier for providers and health plans to identify patients with prediabetes and intervene to improve health status over time.

Costs

- It is estimated that in the U.S., \$44 billion is attributed to medical expenses for prediabetes.
- Prediabetes and lifestyle change interventions could potentially save the U.S. \$539 billion in medical costs and create \$992 billion in non-medical benefits by extending years of employment for affected individuals over a 10-year period. Such dramatic savings highlight the need to make the promotion of prediabetes awareness, screening, and lifestyle change a priority on the state and national levels.

DIABETES PREVENTION PROGRAM

- Developed by the CDC, the Diabetes Prevention Program (DPP) is an evidence-based intervention for preventing type 2 diabetes. DPP is a year-long program where people with prediabetes learn to make sustainable lifestyle changes. It has been shown to reduce the risk of developing type 2 diabetes by 58% (70% for adults over 60).
- DPP is delivered by trained and certified lifestyle coaches at local YMCAs, health care facilities, and other community settings throughout the U.S. Organizations offering DPP are formally recognized by the CDC.
- In July of 2015, the national Community Preventive Services Task

Force published a recommendation statement (<u>http://www.thecommunityguide.org/diabetes/combineddietandpa.html</u>) supporting the use of combined diet and physical activity promotion programs to deter progression to type 2 diabetes in individuals at increased risk.

Long-term outcomes studies

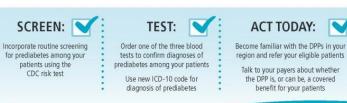
of the DPP have shown a

34% reduction in the

incidence of type 2 diabetes

over a 10-year period.

- "Prevent Diabetes STAT" (<u>http://www.cdc.gov/media/releases/2015/p0311-diabetes-STAT.html</u>), a tool kit jointly
 produced by the CDC and AMA, connects health care providers and individuals with screening, testing, and referral
 information for DPPs. This site also provides recommendations to employers, insurers, community-based organizations,
 health systems, and medical associations about how to prevent diabetes.
- A new CPT code (0403T), available as of January 2016, can be used for the purpose of reporting provision of services in a diabetes prevention program.





Prepared for the Massachusetts Department of Public Health For more information: www.mass.gov/dph/preventdiabetes



Screening

- USPSTF:
 - All adults, aged 40-70 who are overweight or obese
- ADA:
 - All adults 45 and older
 - Adults 18 or older who are overweight or obese AND have at least 1 risk factor

ARE YOU AT RISK FOR TYPE 2 **DIABETES?** A American Diabetes

Diabetes Risk Test

DIARETES

О н	How old are you?		Write your score In the box.		Height Weight (lbs.))
	Less than 40 yea	ırs (0 points)	in the box.		4' 10"	119-142	143-190	191+
	40—49 years (1	point)			4' 11"	124-147	148-197	198+
	50—59 years (2			l '	5' 0"	128-152	153-203	204+
	60 years or olde	r (3 points)			5' 1"	132-157	158-210	211+
A	re you a man or	a woman?			5' 2"	136-163	164-217	218+
•	Man (1 point)	Woman (0 points)			5' 3"	141-168	169-224	225+
_	Man (i point)	woman (o points)			5' 4"	145-173	174-231	232+
3 If	you are a woma	n, have you ever been			5' 5"	150-179	180-239	240+
di	agnosed with ge	estational diabetes?		I .	5' 6"	155-185	186-246	247+
	Yes (1 point)	No (0 points)		Ι.	5' 7"	159-190	191-254	255+
A Dr	o vou have a mo	ther, father, sister, or			5' 8"	164-196	197-261	262+
	other with diab				5' 9"	169-202	203-269	270+
	Yes (1 point)	No (0 points)			5' 10"	174-208	209-277	278+
-	res (i point)	ite (e peniet)		· .	5' 11"	179-214	215-285	286+
		en diagnosed with high			6' 0"	184-220	221-293	294+
	ood pressure?				6'1"	189-226	227-301	302+
	Yes (1 point)	No (0 points)		.	6' 2"	194-232	233-310	311+
G A1	re you physically	active?			6' 3" 6' 4"	200-239	240-318	319+
•	Yes (0 points)	No (1 point)			6.4.	205-245 (1 Point)	246-327 (2 Points)	328+ (3 Points)
	hat is your weig ee chart at right;			.			gh less than th n the left colun (0 points)	
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		r than normal). Talk to ditional testing is needed.			Lower	Your	Risk	
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		common in African America s, and Asian Americans and			The good new type 2 diabete: and can help y If you are at his	s. Small steps ou live a long	i make a big o per, healthier	our risk fo
cans are	e at Increased dia	rease diabetes risk for every betes risk at lower body we out 15 pounds lower).		st	Visit diabetes.or	additional te 9 or call 1-80	first step is to sting is need	see your ed,
	and informat	tion, visit us at diab	etes.org/aler		ideas for simple, lower your risk.	small steps v	getting star	ted, and



Testing

- Retest every 3 years if normal
- Confirm diagnoses with 2 tests taken on separate days
- Retest every 6-12 months after a diagnosis

	-care prediab	elesi	uentii	icati	on	
	MEASURE					
	If patient is age ≥18 and do					
	(CDC Prediabetes S If self-screening					
	-	\neg	, ij			
						1
	Review medical record to dete	ermine if BM	l≥24* (≥22 if.	Asian) or hi NO	istory of GDM**	
			If no: Patient			
	YES		program e	igibility rea	quirements	
	Determine if a HbA1C_EPG	s performed i	n the past 1			
	Determine if a HbA1C, FPG or OGTT was performed in the past 12 months NO					
		Order one of the tests below: o Hemoglobin A1C (HbA1C)				
		0				
		0	Oral glucose		test (OGTT)	
	YES			RESULTS		
				•		
		Not	maal Dro	diabotec	Diabates	
	Diagnostic test HbA1C(%)	No: < 5.		diabetes 6.4	Diabetes ≥ 6.5	
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	HbA1C(%)	< 5 < 1	7 5.7- 00 100	6.4	≥ 6.5	
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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

Communication and Referral

Prediabetes? That's a thing?

Yes. 1 in 3 people have prediabetes, which means they have a much greater risk of developing Type 2 diabetes. Prediabetes happens when your blood sugar (glucose) level is higher than normal, but not high enough to be diagnosed as diabetes. In Massachusetts, 35% of adults have prediabetes, but most of them don't know they have it.

Health risks for prediabetes and diabetes include being overweight or obese, high blood pressure or cholesterol, and being inactive.

Take the Risk Test

See the reverse side for a prediabetes risk test. If your score shows you are at high risk, talk to your healthcare provider about getting tested for prediabetes. A blood test can diagnose prediabetes and diabetes.

What can I do to lower my risk?

By **improving your diet** and increasing **physical activity**, you can reverse prediabetes and reduce your risk of diabetes in the future. Making healthy food choices and getting regular physical activity can lower weight, blood pressure and cholesterol - and help you keep a normal blood sugar level. Programs that focus on diet and physical activity - like the **Diabetes Prevention Program** - are proven to reduce the risk of type 2 diabetes by up to 58% (71% reduction for those over age 60).

The Diabetes Prevention Program

The Diabetes Prevention Program (DPP) is a year-long, group program held at a local community or health center, such as a YMCA.

A trained lifestyle coach will help you learn:

- · Practical ways to eat healthy
- How to add physical activity to your daily routine
- How to manage stress

Joining a DPP may be free or you may be eligible for financial assistance. Contact a local program to learn more: http://www.mass.gov/dph/ preventdlabetes

1"National Diabetes Prevention Program: For Healthcare Providers". Centers for Disease Control and Prevention. August 2015. http://www.cdc.gov/diabetes/prevention/resources_hcp.htm



Are you at risk for diabetes?

Prediabetes:

1 in 3 adults have it. Prediabetes is a condition where your blood sugar level is above normal.

Prediabetes means you have a higher risk for developing Type 2 diabetes.

Diabetes

Type 2 diabetes is the most common form of diabetes. This condition happens when a person's body doesn't make enough of the hormone insulin, or it doesn't use insulin correctly. If Type 2 diabetes isn't controlled, it can have serious health consequences, including blindness, kidney or heart disease.

Type 1 diabetes can happen at
any age, but commonly occurs
in children and young adults.

Studies of **Diabetes Prevention Program** showed that losing 5-7% of body weight, by reducing calories and increasing physical activity, **cuts the risk of developing diabetes by 58%** (70% for adults over 60). Risk factors that you can change are:

- Being overweight or obese
- Low activity level
- Unhealthy diet
- High blood pressure
- High cholesterol

Other risk factors that you can't change include:

- Age of 45 or above
- Race/ethnicity African American, Hispanic/Latino, American Indians, Asian Americans, Pacific Islanders
- Family history of diabetes
- History of Gestational Diabetes
- Having Polycystic Ovarian Syndrome

Ask your doctor about your risk for prediabetes or diabetes.

In Massachusetts, 35% of adults have prediabetes but only 7% know that they have it.*

Prevent Diabetes

You can help prevent diabetes through a healthy diet and physical activity. If you're at risk, ask your doctor about the **Diabetes Prevention Program** (**DPP**) - a one year program led by a trained lifestyle coach. This program provides a supportive group environment where you will:

- · Learn how to make healthy food choices
- Add physical activity into your daily routine
- Manage stress

This program may be free or offered at a reduced cost based on your income or the DPP location. Typically the program cost is \$400.

To learn more about preventing prediabetes and diabetes, visit mass.gov/dph/preventdiabetes.



*Diabetes Prevention Program Research Group. Reduction in the incidence of type 2 diabetes with lifestyle intervention of metformin. New England Journal of Medicine. 2002;346(6):393-403. http://www.ncbi.nlm.nih.gov/pubmed/11832527

Massachusetts Clearinghouse

www.massclearinghouse.ehs.state.ma.us

Mass. Gov State Office	s & Courts State A-Z Topics	State Forms	
Massachusetts Health Promotion	Home > Diabetes		
search by title or item ⊧ GO	Diabetes		ঈ Shopping Cart (0)
YOUR ACCOUNT Login Cart		▼ View: 25 ▼	
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Alcohol and Other Drugs	Moving More for Busy People Fact Sheet	Getting Started with Healthy Eating Fact Sheet	Diabetes Prevention Fact Sheet For adults at risk for type 2
Asthma Blood Pressure	For general audience Fact Sheet	For general audience Fact Sheet	diabetes Fact Sheet
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Early Intervention	Know Your Risk Fact Sheet	Heart Health for People with	Diabetes Prevention 11x17
Emergency Preparedness & Response	For adults at risk for type 2 diabetes Fact Sheet	<u>Diabetes Fact Sheet</u> For adults with diabetes Fact Sheet	<u>Poster - English</u> For clinical sites with adult patients
Environmental			Poster

 Order Materials for Free!

Coding/Payment

 ICD-10 code for prediabetes and abnormal glucose is R73.09

 Diabetes Prevention Program specific CPT code is 0403T

National Diabetes Prevention Program Research Study

- A major multi-center, NIH sponsored national RCT (n = 3234)
- Representative sample of age, gender, and ethnicity
- Eligible participants were randomized to one of three interventions
 - Control
 - Metformin
 - Lifestyle Intervention



Evidence for National Diabetes Prevention Program

- The DPP research study showed that participants in a structured lifestyle change program (Lifestyle Intervention) who achieved:
 - Modest weight loss of 5-7 percent
 - 150min per Week of moderate physical activity
- Were able to:



- Reduce type 2 diabetes by **58% (71% in those over age 60**)
- Improve blood pressure and lipids (25% reduction in medication use)
- 10-year f/u shows continued reduction in new cases of type 2 diabetes (34%)
- Translational studies demonstrated that trained lay health workers are as effective in delivering the lifestyle change program at 1/3 of the cost, while achieving similar results

Diabetes Prevention Program Features

- Year long program
 - 16 weekly group sessions
 - 6-8 monthly follow-up sessions
- Delivered by trained lifestyle coaches
- Uses CDC approved curriculum
 - Participants learn healthy lifestyle skills like healthy eating, physical activity, problem solving, stress reduction and coping

- Offered in community locations
 - YMCAs, Wellness Centers, Churches etc.
- Group support (8-15 participants per class)
- Both in-person and virtual options available
- Adherence to CDC quality standards

DPP Eligibility Criteria

1) Be at least 18 years old; and

- 2) Be **overweight** (BMI greater than or equal to 25 kg/m2 ; greater than or equal to 23 kg/m2 if Asian.)
- 3) And have **established risk factors** for developing type 2 diabetes (ADA Risk Test)

OR have been **diagnosed with prediabetes**

(FBG 100-124 mg/dL, HbA1c 5.7-6.4%, OGTT 140-199 mg/dL)

OR have been previously diagnosed with **gestational diabetes**.

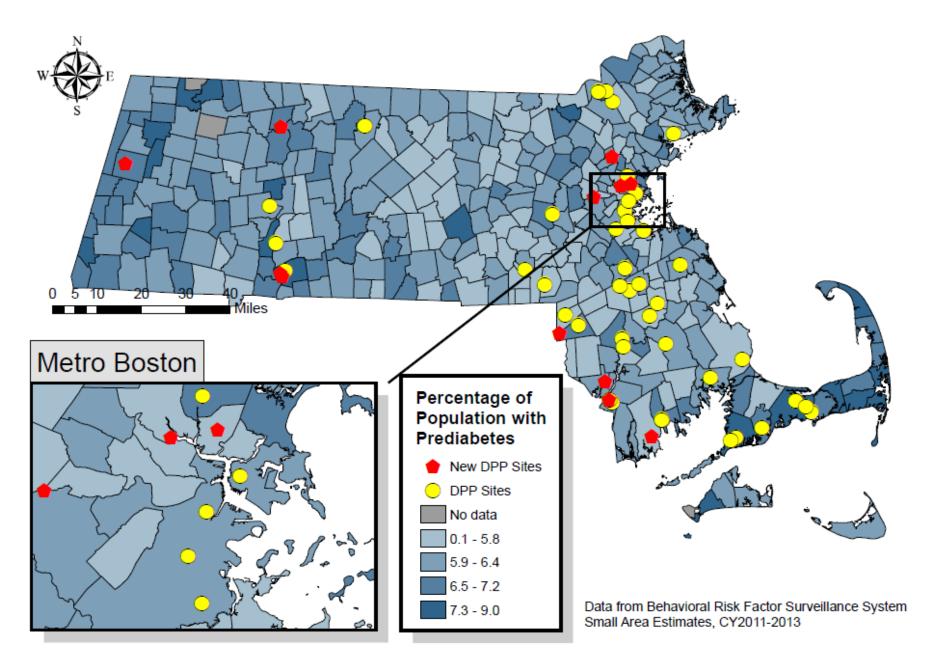
DPP Costs and Reimbursement

- Program costs range from \$400-\$600 per participant for a full year program
- Most DPP providers subsidize the cost for patients who can not afford it using scholarships or sliding scale fees
- Medicare will start reimbursement on January 1st 2018

Clinical and Economic Support for National Diabetes Prevention Program

- Recommended by the Community Guide
- USPSTF Grade "B" Rating
- ICER Grade "B+" Rating
- CMS Cost Savings of \$2,650 per individual over the first 18 months
- Overall median cost per QALY gained is \$9,824
- Total potential budget impact at 10% uptake over 5 years is \$2.2 billion per year in savings

Prediabetes Prevalence and Diabetes Prevention Program (DPP) Sites in MA



What you can do!

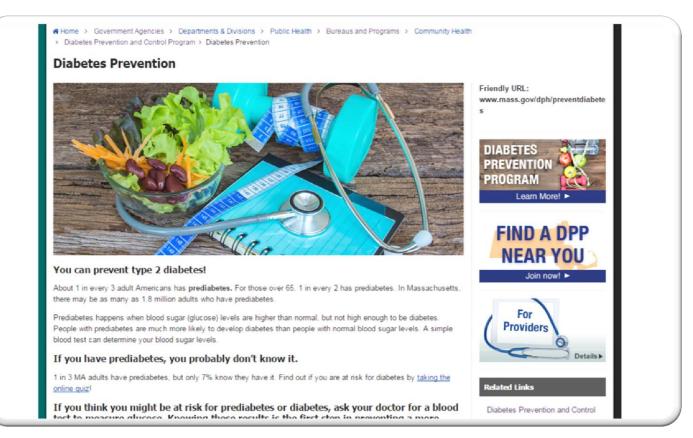
- Screen
 - Asses your patients risk for diabetes using the ADA Diabetes Risk Test

(http://main.diabetes.org/dorg/PDFs/risk-test-paper-version.pdf)

- Test
 - Connect your patients to their healthcare provider to get diagnosed
- Act
 - Refer your eligible patients to the nearest DPP provider or host DPP on site!

How to locate and refer to DPPs in MA?

 1. Visit <u>www.mass.gov/dph/preventdiabetes</u> to find program info and contact directly



How to locate and refer to DPPs in MA?

 2. Visit <u>www.healthyliving4me.org</u> or call 1-978-946-1211 to get connected with a nearby program



Action Steps

- Talk to your patients about prediabetes
- Screen your patients for diabetes
- Become familiar with local DPP providers to refer to, or host one on site
- Be a DPP champion and spread the word to fellow programs and providers

Thank You!

Max Alderman Diabetes Program Coordinator MA Department of Public Health Max.Alderman@State.ma.us

