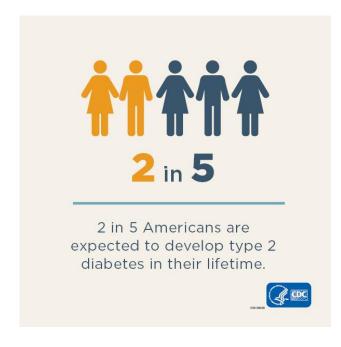
TYPE 2 DIABETES IT'S PREVENTABLE

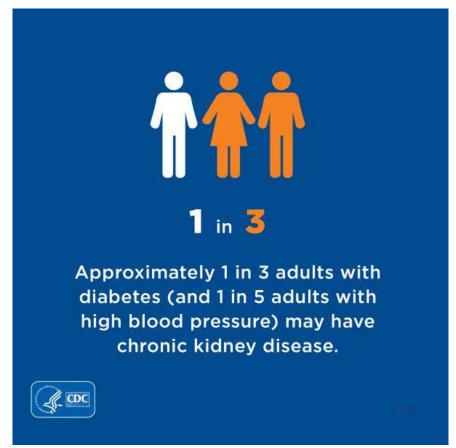


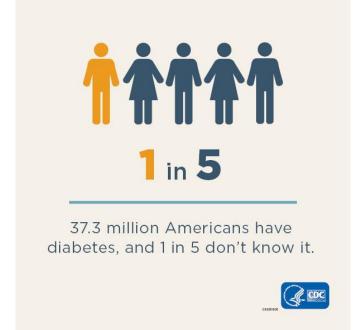
PRESENTATION OUTLINE

- Statistics & impact
- Diabetes 101
- Risk factors
- Prediabetes Myths
- Prevention
- Resources













96 million American adults (more than 1 in 3) have prediabetes — blood sugar levels that are higher than normal but not high enough yet to be classified as type 2 diabetes.



- Diabetes is the seventh leading cause of death in the United States. Adults aged 50 years or older with diabetes die 4.6 years earlier, develop disability 6 to 7 years earlier, and spend about 1 to 2 more years in a disabled state than adults without diabetes.
- An estimated 1.4 million new cases of diabetes were diagnosed among people ages 18 and older in 2019.
- The percentage of adults with diabetes increases with age, reaching 29.2% among those aged 65 years or older
- The percentage of adults with diagnosed diabetes was highest among American Indian and Alaska Native persons (14.5%), non-Hispanic Black people (12.1%), and people of Hispanic origin (11.8%), followed by non-Hispanic Asian people (9.5%) and non-Hispanic White people (7.4%) in 2018-2019.
- Adults with a family income below the federal poverty level had the highest prevalence for both men (13.7%) and women (14.4%).
- Every **19** seconds someone in the U.S. is diagnosed with Diabetes



- 1 of \$4 health care dollars is spent caring for people with diabetes
- 1 in \$3 Medicare dollars is spent caring for people with Diabetes
- People with diagnosed diabetes have **health care costs 2.3 times higher** than if they don't have the disease
- Costs for a person with diabetes complications averages \$30,000 while a person with a pre-diabetes diagnosis averages \$510

Annual Total Costs Attributable to Diabetes, Minnesota, 2013 Dollars

Sex	Age Group (in years)	Direct Cost (\$ in Millions)	Indirect Cost (\$ in Millions)	Total Cost (\$ in Millions)	Total Cost per Person with Diabetes (\$)
Overall	19-64	1,557.3	2,106.7	3,664.1	21,655
	65+	1,254.9	407.4	1,662.3	11,367
	Total	2,812.2	2,514.1	5,326.4	16,886
Males	19-64	856.8	1,438.1	2,294.9	25,229
	65+	500.3	247.4	747.7	10,394
	Total	1,357.1	1,685.5	3,042.6	18,678
Females	19-64	700.5	668.6	1,369.2	17,500
	65+	754.6	160.0	914.6	12,310
	Total	1,455.1	828.6	2,283.7	14,972

Data Source: Multiple data sources; see individual cost screens for detailed lists of data sources.

\$327 Billion

In 2017, diabetes and its related complications accounted for \$327 billion in total (direct and indirect) medical costs and lost work and wages in the United States.









will go on to develop full blown diabetes within 5 years.

NEW CASES OF DIABETES ARE DIAGNOSED EVERY DAY



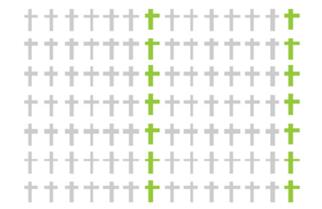


shorter life expectancy of an average 50-year old, due to diabetes

AVERAGE ANNUAL HEALTH CARE COSTS OF A PERSON WITH DIABETES

7TH

leading cause of death in the United States (diabetes)





What IS Diabetes?

- A disease in which blood glucose (sugar) levels are too high – <u>higher than normal</u>
- Not enough insulin to allow glucose to be used for energy
- Over time, these high glucose levels <u>damage</u> the small and large blood vessels, which can lead to diabetes-related blindness, kidney disease, amputation, stroke and heart disease

DIABETES TYPE 1

- **Type 1**, usually diagnosed in children and young adults, but can be diagnosed at any age (5-10% off all cases of diabetes)
- People with type 1 make no insulin, and thus must take insulin into their bodies, either through injection or an insulin pump
- Insulin is necessary to move blood glucose (sugar) into the body's cells for energy

TYPE 1 WARNING SIGNS

Frequent urination

Unusual thirst

Extreme hunger

Losing weight without trying

Extreme fatigue

Irritability



TYPE 2 DIABETES

• **Type 2** is generally diagnosed in adults over the age of 45, but is also increasingly being diagnosed in children and adolescents (90-95% of all cases of diabetes)

 Type 2 diabetes is characterized by insulin resistance, which keeps the body from using insulin effectively

TYPE 2 WARNING SIGNS

Any of the type 1 symptoms

Frequent infections

Blurred Vision

Cuts/bruises that are slow to heal

Reoccurring skin, gum or bladder infections



GESTATIONAL DIABETES

- Gestational diabetes is a type that occurs during pregnancy
- Happens in about 2 to 10 percent of all pregnancies
- Women who have had gestational diabetes have a 35%-65% chance of developing diabetes in the next 10-20 years



- BRAIN: If your blood sugar is not under control you may be prone to moodiness and irritability, or feel anxious and more quick to snap at someone in anger. Glucose issues can also leave you feeling foggy, fuzzy, or spaced out, making it difficult to concentrate on important tasks and remember small details.
- EYES: Chronic high blood sugar can cause blood vessels in your retina to swell like little balloons, which may eventually block the vessels themselves and cause new, abnormal blood vessels to grow. Blurred vision, decreased depth perception, and blindness can all result from this damage.
- **EARS**: People with diabetes are more than twice as likely to have hearing impairment as people without diabetes.
- **HEART:** As blood vessels become narrowed or blocked by glucose damage, your heart will be working extra hard to pump enough fresh blood through your body.

- **BLOOD STREAM:** Without insulin to help lower the amount of glucose in the blood, your blood sugars rise and stay higher than normal for longer periods of time. Sustained high blood sugar leads to increased blood fats (also known as triglycerides) which can affect your cholesterol levels.
- KIDNEYS: Your kidneys are like miniature water treatment plants, filtering toxins and waste from your bloodstream. Consistently high levels of blood sugar makes it harder for the kidneys to do their job, and can lead to chronic kidney disease over time.
- BLOOD VESSELS: High blood sugar can also alter the structure of the blood vessels themselves, making them thicker and less elastic, and in turn making it harder to pump blood through your body.

- **BONES:** Diabetes can lead to lower bone mineral density, which increases your risk of osteoporosis.
- vessels, it can affect your body's ability to bring oxygen and nutrients to your nerves. On top of that, the glucose can actually cause chemical changes in your nerves themselves, and impair their ability to transmit signals back and forth -- leading to tingling, pain, or decreased sensation, particularly in areas like your legs and feet.
- FEET: Blood vessel damage means not enough blood reaches your extremities, like your feet. Because nerve damage may cause you to no longer feel pain in your feet, you may not realize you have a wound or injury that needs treatment. Both are reasons that 60% of all leg and foot amputations are a result of diabetic complications.

Unmanaged diabetes in any form can lead to:

- Blindness
- Kidney failure
- Heart disease
- Stroke
- Loss of toes, feet, or legs



PRE-DIABETES

- Pre-diabetes is a condition defined by higher than normal blood glucose levels, but not high enough for a diagnosis of diabetes
- 96 million American have pre-diabetes
- Recent studies have found that most people with prediabetes develop type 2 diabetes within 5-10 years



RISK FACTORS

- People over the age 45
- People with a family history of diabetes
- People who are overweight (3 out 5 in MN)
- People who do not exercise regularly (1 in 4 in MN)
- People who have a high blood pressure (above 140/90)
- People who have cholesterol readings of HDL below 35mg/dL or having triglyceride levels above 250mg/dL makes them more prone
- Untreated sleep problems, especially sleep apnea can increase the risk of insulin resistance
- Certain racial and ethnic groups
- Women who had gestational diabetes
- Having polycystic ovary syndrome

https://www.diabetes.org/risk-test



MYTHS

Prediabetes isn't serious.

Only obese people get prediabetes.



Only older people get prediabetes.

I can't have prediabetes. I don't eat sugar.









MYTHS

I can just take medication for prediabetes.

FDA-approved drugs specifically for prediabetes. However, lifestyle change is considered the first-line of treatment for prediabetes to get your blood sugar levels under control. The sooner you begin living a healthier lifestyle, the less damage prediabetes or type 2 diabetes can do to you.

I'm borderline, so I don't actually have to worry until I have full-blown diabetes.



Damage to your heart and circulatory system can begin with just a small rise in blood sugar. And that's just the

I have prediabetes. I'll develop diabetes no matter what I do.

cut your risk for type 2 diabetes by more than half - and the older you get, the more lifestyle change can cut your risk.







PREVENTION







Reduced risk of developing diabetes over three years if you follow a healthy food and exercise program.



Amount of exercise, five days a week, that could reduce your risk of diabetes if you have prediabetes











Amount of weight loss that could prevent diabetes if you have prediabetes (ie. 14 pounds if you weigh 200 pounds)





RESOURCES

FOR THOSE WITH PREDIABETES:

OMADA [®] FOR PREVENTION You'll take lessons online, gain the support of a coach and peer group, and learn how to build healthy habits that last a lifetime. It's a \$600 value, at no cost to you.

omadahealth.com/duluthjpe

DIABETES PREVENTION PROGRAM

Goals of the Program:

- Reduce body weight by 5% to 7%
- Increase physical activity to 150 minutes each week
- Increase coping skills

What the program offers:

- Proven curriculum
- Lifestyle coach
- Support group

Join ours or find a program **HERE**

FOR THOSE WITH DIABETES:

- Know your AIC (average blood glucose) numbers
- Monitor your blood pressure
- Pay attention to your cholesterol
- Get your annual eye check up
- Take care of your feet , and wear shoes to avoid cuts and scrapes
- Implement exercise into your schedule
- Enjoy more cooking at home
- •Do not let a set back ruin your progress

www.diabetes.org: My Food Advisor/Recipes for Healthy Living, Living with type 2 diabetes, Community Message Boards (ADA Connect), News and Research

National Call Center: Call 1-800-DIABETES (1-800-342-2383)













WIRELESS SCALE

A whole new way to get healthy

Omada° is a digital lifestyle change program that inspires healthy habits that last.

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