

Diabetes Coalition of Palm Beach County:

A Review and Analysis of Screening Data from 2012 through 2016 – What Did We Learn?

Presented By: Barbara H. Jacobowitz, MS in Public Health, Keiser University AND Ronald E. Fuerst, MS in Accounting, MS in Economics, Keiser University



How old are you?

Less than 40 years (0 points)

40—49 years (1 point)

50—59 years (2 points)

60 years or older (3 points)

Are you a man or a woman?

Man (1 point)

Woman (0 points)

If you are a woman, have you ever been diagnosed with gestational diabetes?

Yes (1 point)

No (0 points)

Do you have a mother, father, sister, or brother with diabetes?

Yes (1 point)

No (0 points)

Have you ever been diagnosed with high blood pressure?

Yes (1 point) No (0 points)

**Ms. Jacobowitz and Mr. Fuerst
DO NOT HAVE ANY FINANCIAL
RELATIONSHIPS
RELATIVE TO THE CONTENTS
OF THIS PROGRAM**



Presentation Goal

To educate the audience about the evolution of the volunteer collection and analysis of the screening process used, identification of the zip codes most severely impacted by diabetes in the county, and efforts to get pre-diabetics and diabetics identified in the screening process into the proper medical care. Examples of successes will be highlighted that include how future efforts will be modified to improve the reliability and validity of the data collected, in addition to the development of new outcome measures that will give us a better picture of how diabetes is impacting Palm Beach County resources.

After Viewing This Presentation, Audience Members Should Be Able To:

- ✓ Understand the importance of screening for pre-diabetes and diabetes.
- ✓ Identification of pre-diabetics and diabetic individuals through the use of the American Diabetes Association (ADA) screening tool.
- ✓ Understand the data analysis and findings, the importance of getting pre-diabetics and diabetics of all ages and ethnic groups into treatment and/or lifestyle changes including exercise, nutrition and patient compliance with treatment in Palm Beach County.

Excerpts from 2017 Florida Diabetes Report

As Prepared by the Florida Diabetes Advisory Council

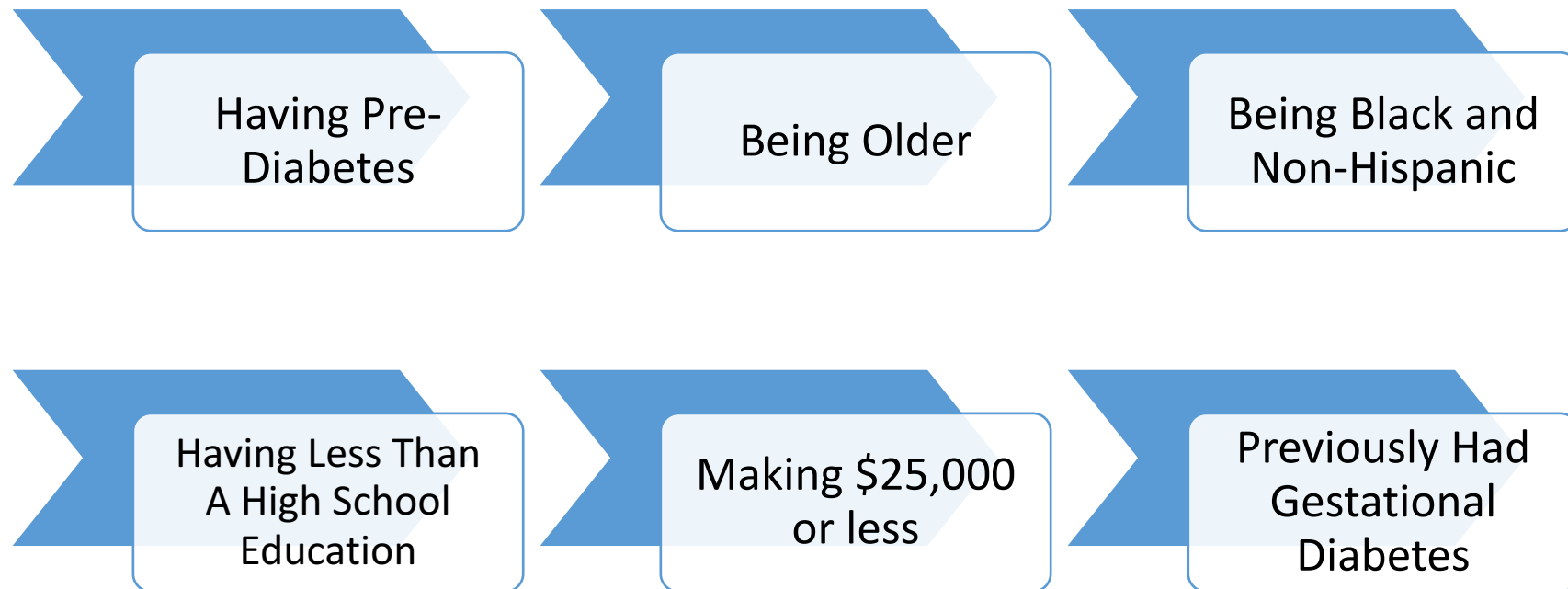
*“Over the past 20 years, the prevalence of diabetes among Florida adults has more than **doubled**, increasing from 5.2% in 1995 to 11.2% in 2014.”*

*“The total charges for hospitalizations with diabetes as any –listed diagnosis **increased by 47%**, from \$13.8 billion in 2009 to \$20.4 billion in 2014.”*

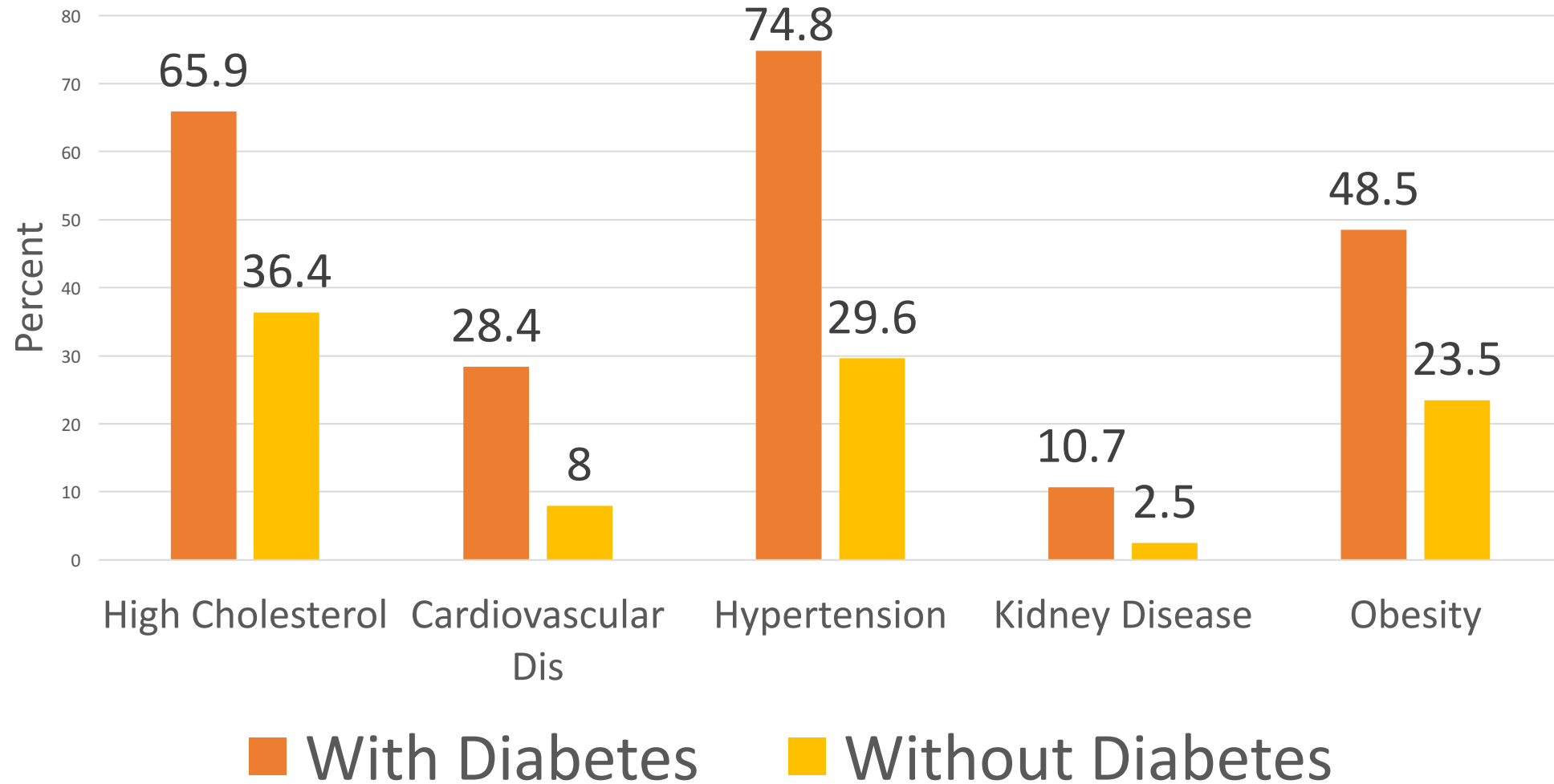
“In 2013, Florida adults who have been diagnosed with diabetes had a significantly higher prevalence of high cholesterol, high blood pressure, cardiovascular diseases, kidney diseases and obesity than Florida adults who have never been diagnosed with diabetes.”

SOME OF THE RISK FACTORS FOR DEVELOPING TYPE II

Let's Talk About "Causation" versus "Association"



Chronic Conditions by Diabetes Status, Florida, BRFSS 2013



HOSPITALIZATIONS FROM OR WITH DIABETES, PALM BEACH COUNTY AND FLORIDA, 2010-2014

Year	Palm Beach County		Florida	
	Count	Rate	Count	Rate
2010	32,874	1,689.1	566,381	2,274.8
2011	33,750	1,732.3	577,529	2,293.4
2012	33,959	1,737.3	565,117	2,305.2
2013	33,860	1,708.4	570,622	2,281.0
2014	36,212	1,805.3	594,637	2,339.8

Source: Florida Charts, Florida Agency for Healthcare Administration, 2014.
 Compiled by the Health Council of Southeast Florida, 2016

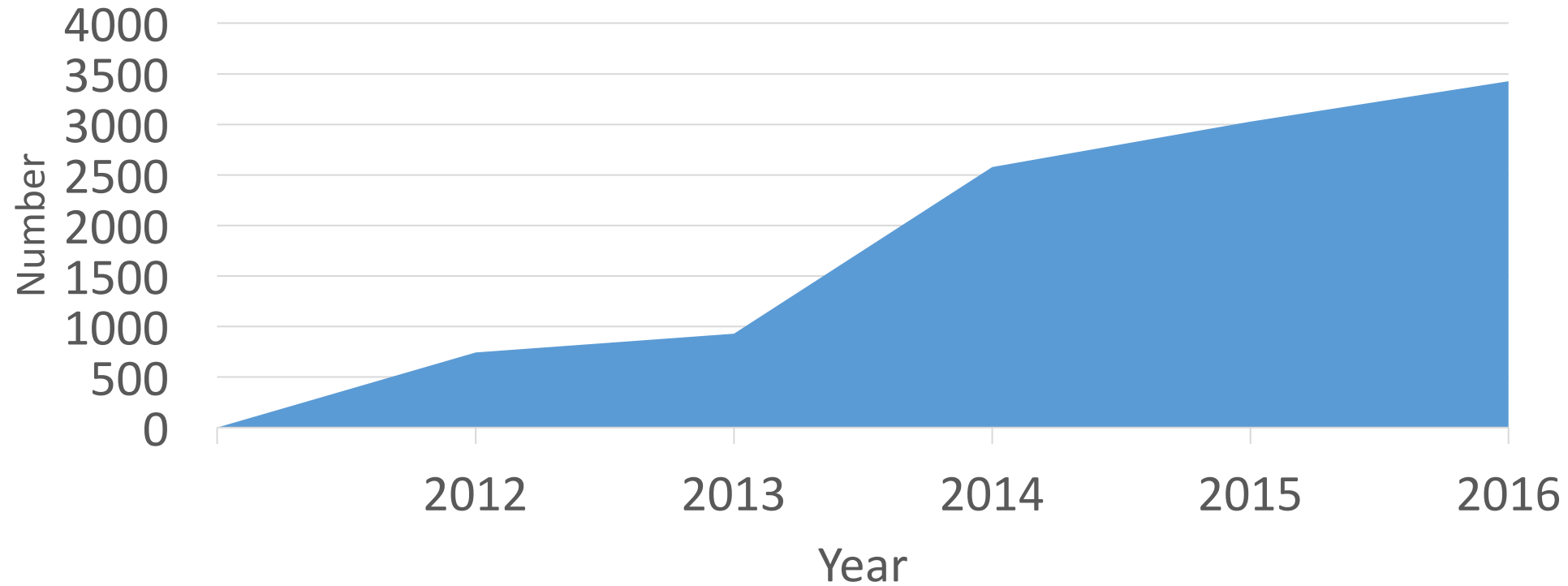


Who Are We?

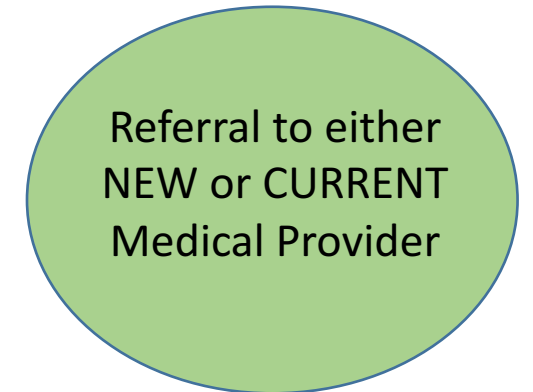
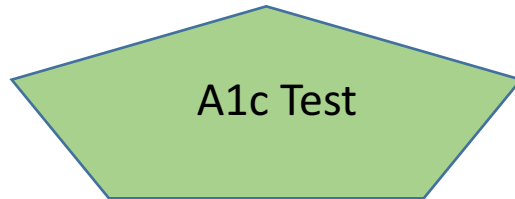
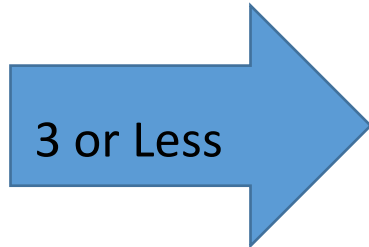
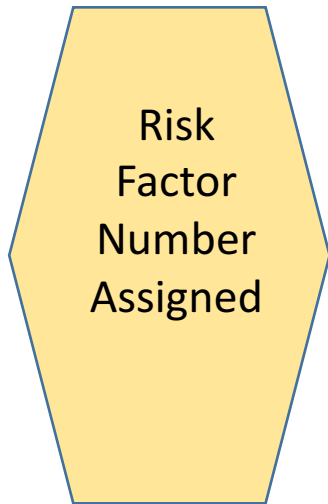
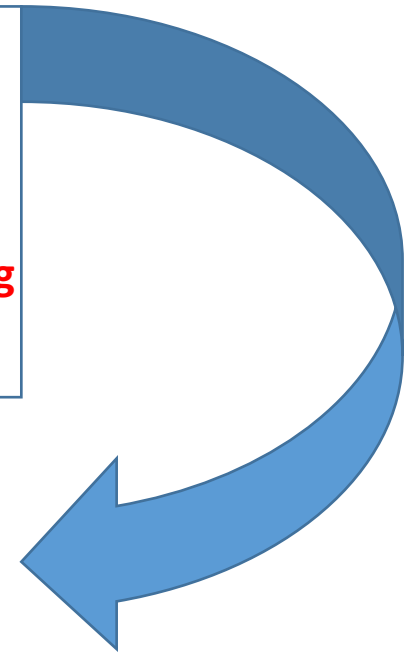
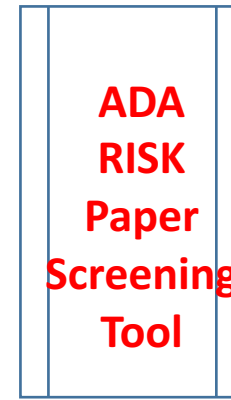
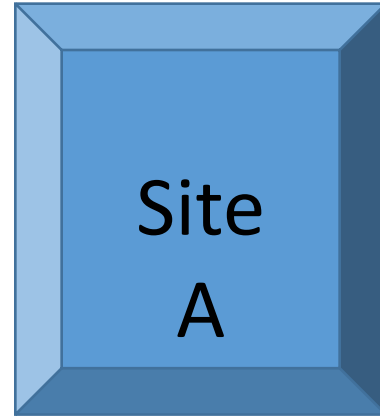
Mission Statement:

To prevent diabetes and improve the lives of people living with the disease and those touched through awareness, education, advocacy and access to care.

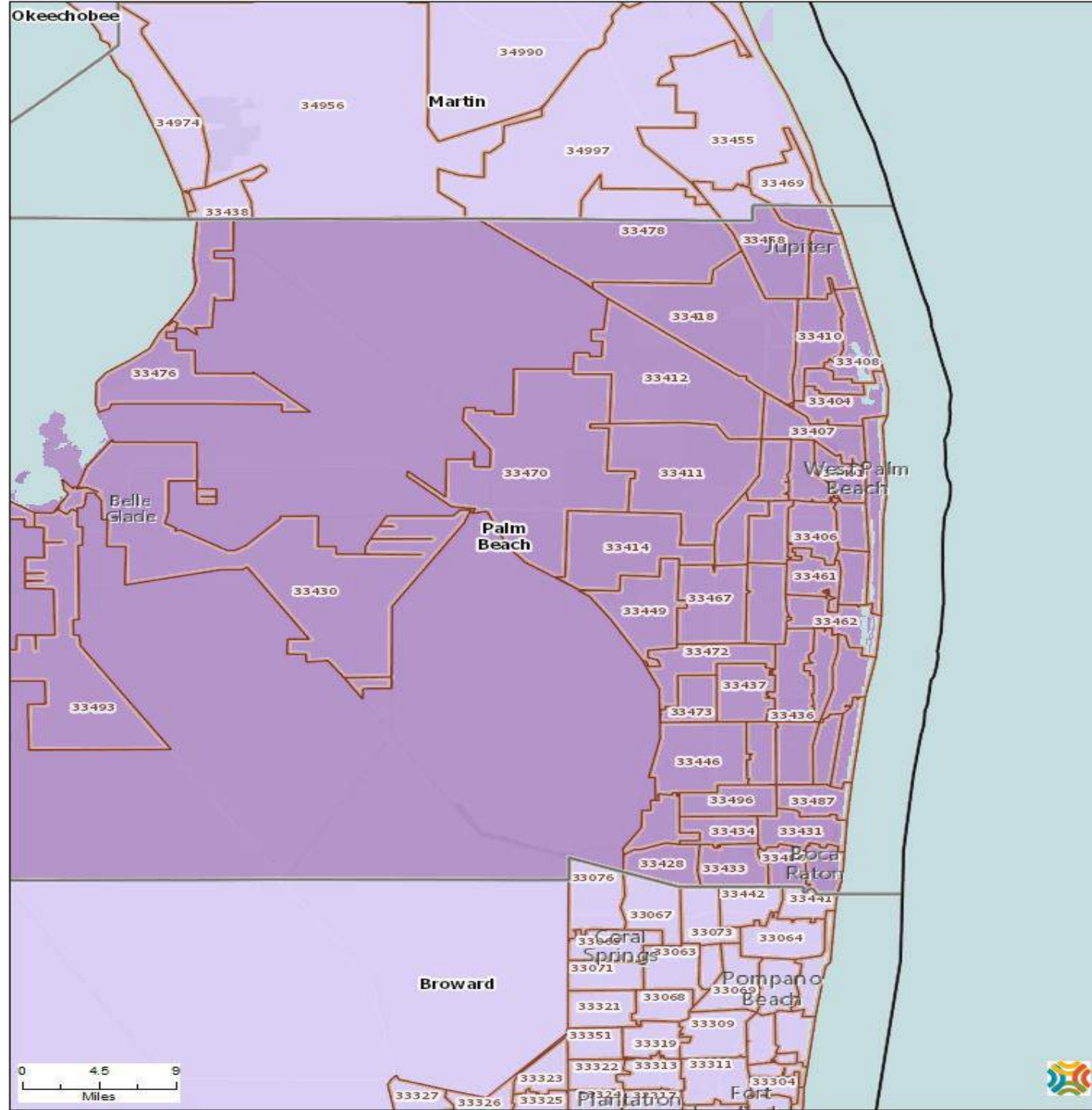
Number of Coalition Screenings



2012	2013	2014	2015	2016	Total Screenings
740	927	2578	3026	3,425	10,696



ZIP CODE MAP OF PALM BEACH COUNTY



Highlights of ADA Screenings in 2016

- ❖ **OVER 55 DIABETES RISK ASSESSMENT SCREENING SITES AND EVENTS WERE HELD THROUGHOUT PALM BEACH COUNTY FROM JUPITER, DOWN TO AND INCLUDING, THE GLADES AND BOCA RATON**

- ❖ **IN 2016, WE INCREASED OUTREACH SCREENING SITE LOCATION AND EVENTS TO SENIORS AND HAITIAN COMMUNITIES INCLUDING:**

- **CENTURY VILLAGE**
- **DELRAY COMMUNITY WELLNESS CENTER – SERVES OUR SENIORS**
- **JUPITER SENIOR HEALTH FAIR**
- **ST JOHN BAPTIST CHURCH SCHOOL HEALTH FAIR IN BOYNTON BEACH (serves a large Haitian Community)**
- **TRINITY CHURCH HAITIAN HEALTH FAIR – BELLE GLADE**

NEW SCREENING SITES AND EVENTS INCLUDED:

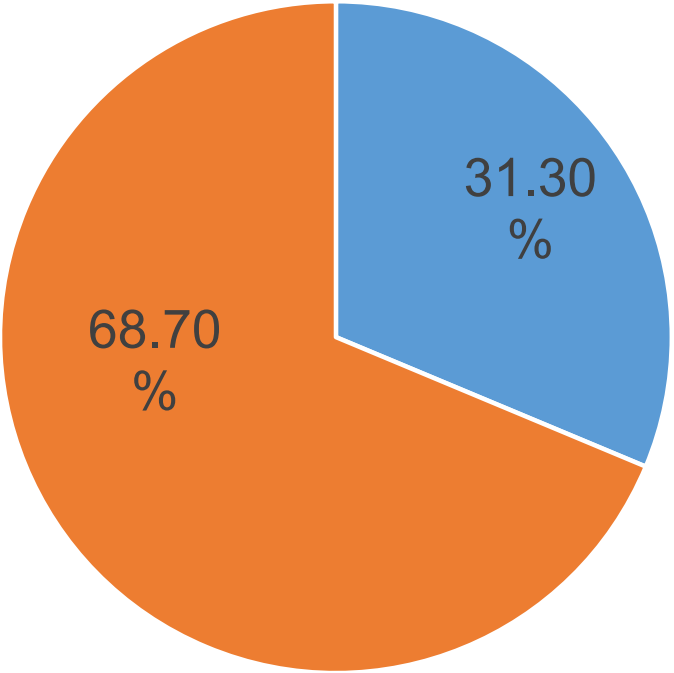
- **PALM BEACH COUNTY SCHOOLS TRANSPORTATION HUBS – WEST PALM BEACH AND BELLE GLADE LOCATIONS**
- **FLORIDA BLUE CENTER**
- **WILLIAMS-SONOMA – BOCA AND BRIGHTON COLLECTIBLES – WELLINGTON MALL**
- **AMERICAN LEGION – DELRAY BEACH**
- **ST FRANCIS AND ST ANN CHURCHES**
- **PALM BEACH COUNTY HOMELESS COALITION DAY OF DIGNITY**
- **SOUTH FL SCIENCE CENTER AND AQUARIUM**
- **DIABETES HEALTH FAIR – PBC STATE COLLEGE – BELLE GLADE**

Over 3,425 ADA Diabetes Risk Assessments Completed in 2016



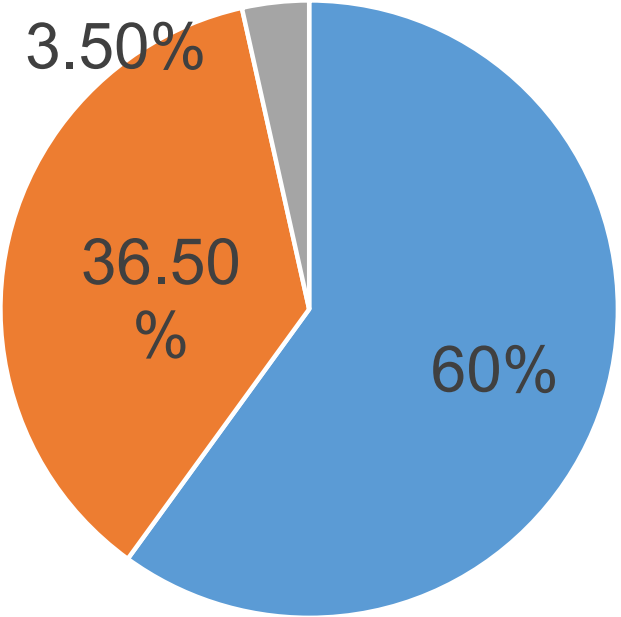
2016: Total of 3,425 Respondents

Gender



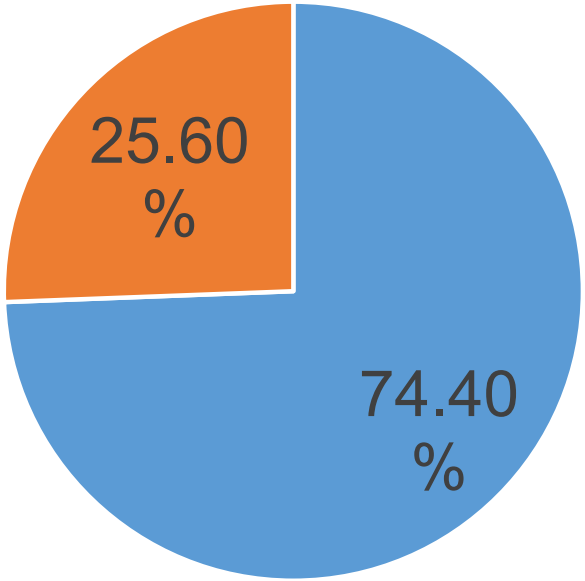
■ Male ■ Female

Race



■ White ■ Black

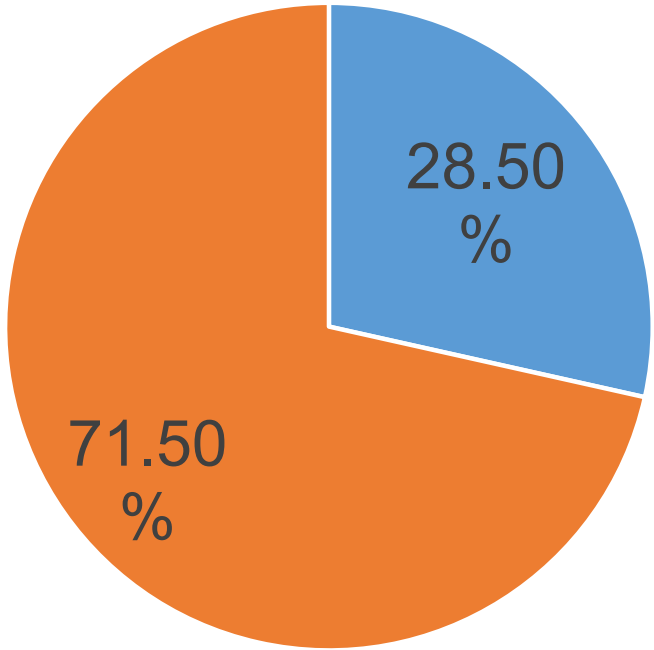
Age



■ < 60 years ■ > 60 Years

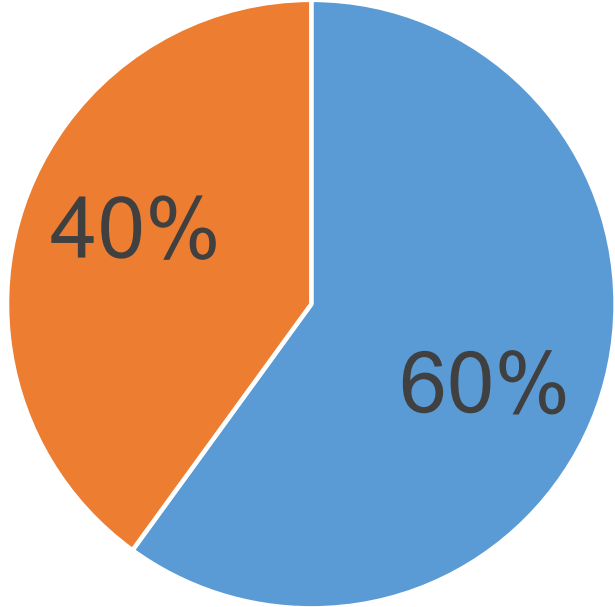
2016: Total of 3,425 Respondents (continued)

Ethnicity



■ Hispanic ■ Non Hisp

Country of Birth

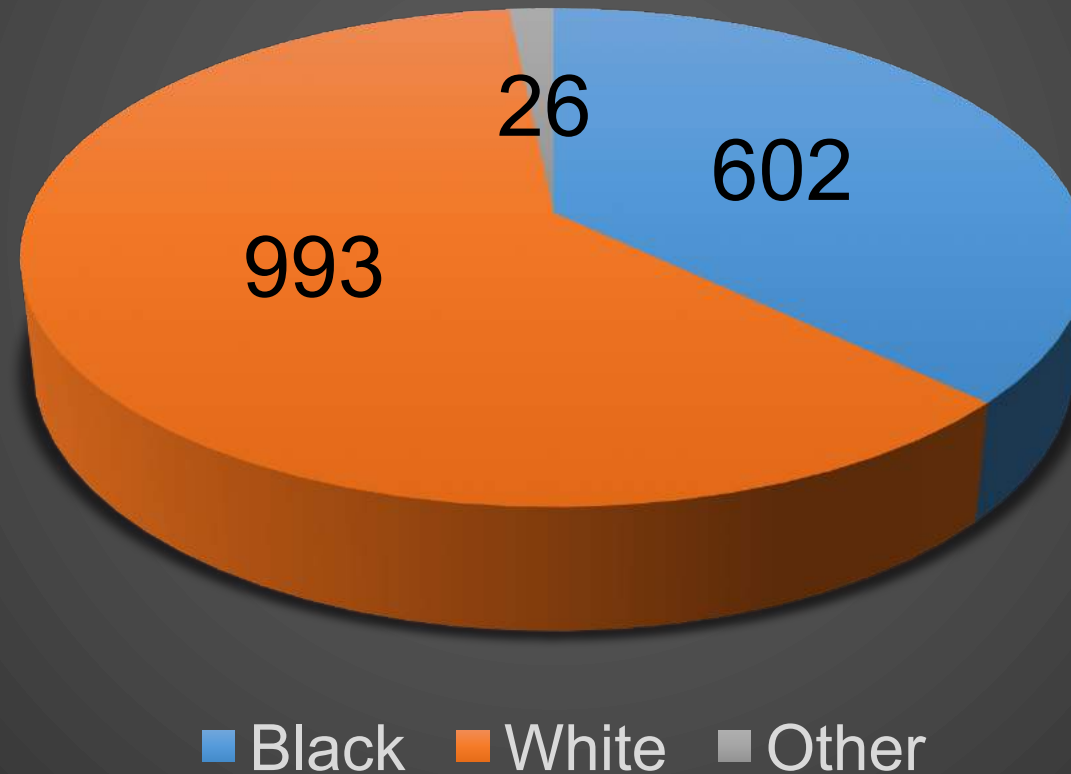


■ US ■ Not in US

IF WE SET THE WARNING LIGHT AT 4 OR HIGHER AS RECOMMENDED BY THE COALITION'S MEDICAL ADVISOR

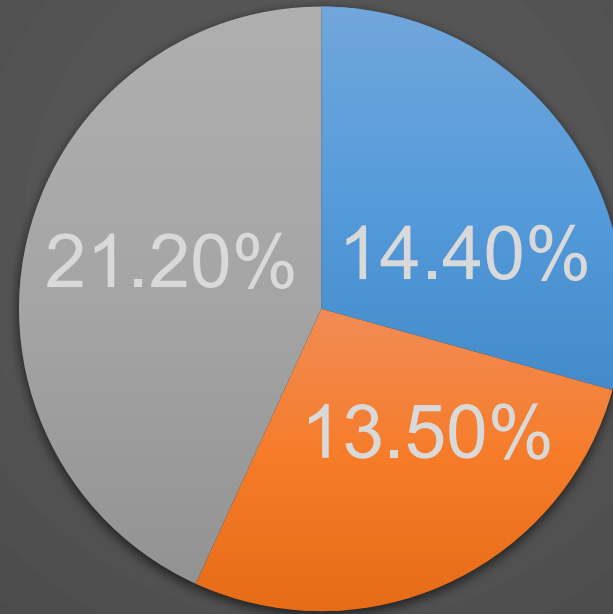
<u>YEAR</u>	<u>NUMBER SCREENED</u>		<u>RISK FACTOR 4 OR MORE</u>			<u>PERCENTAGE AT RISK</u>	
2012		740		334			46.40%
2013		927		500			53.90%
2014		2578		1519			58.90%
2015		3026		1814			59.90%
2016		3425		1969			57.49%

Total of 4 or More Risk Factor Respondents Who Will Share Results With Doctor By Race



**BUT, OF THE 4 OR MORE RISK RESPONDENTS, 242 DID NOT
HAVE A PRIMARY CARE PROVIDER!**

PERCENTAGE OF THOSE WITH A RISK FACTOR OF 4 OR MORE WITH NO PRIMARY CARE PROVIDER, 2016



■ Black ■ White ■ Other

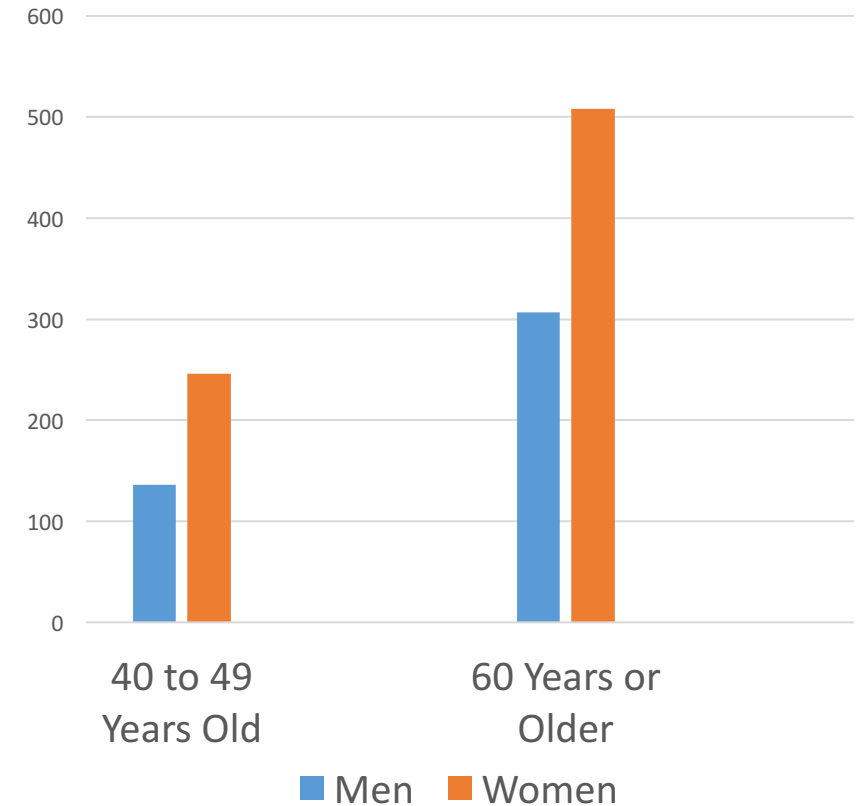
First, let us look at two specific age groups:

<u>Gender</u>	<u>40 to 49 Years Old</u>	<u>60 Years or Older</u>	<u>TOTAL</u>
Men	215	307	522
Woman	456	561	1017
Blank	4	1	5
TOTAL:	675	869	1544

This is the total count of those screened within these two age groups in 2016.

What Does the Data Tell Us?

RESPONDENTS WITH 4 OR MORE RF IN TWO AGE GROUPS					
	<u>40 to 49 Years Old</u>		<u>60 Years or Older</u>		<u>TOTAL</u>
Men	136	35.4%	307	37.6%	443
Women	246	64.1%	508	62.3%	754
Blank	2		1		3
TOTAL:	384		816		1200



What If We Looked At Those In the Same Age Groups BUT With 0-3 Risk Factors?

<u>Gender</u>	<u>40 to 49 Years of Age</u>	<u>60 Years or Older</u>
Men	79	0
Women	210	53

Given the assignment of risk factor weighting, there are few people who are 60 years of age or older who would not fall into the pool of 4 or more risk factors.

As we can see, those 60 years of age and older only need one additional point to hit the threshold of 4 risk factors.

BUT

What if We Add Weight to the Equation?

If a respondent's weight was less than or equal to the amount noted in the left column of the weight chart as a "good" weight and we look at the same age groups...

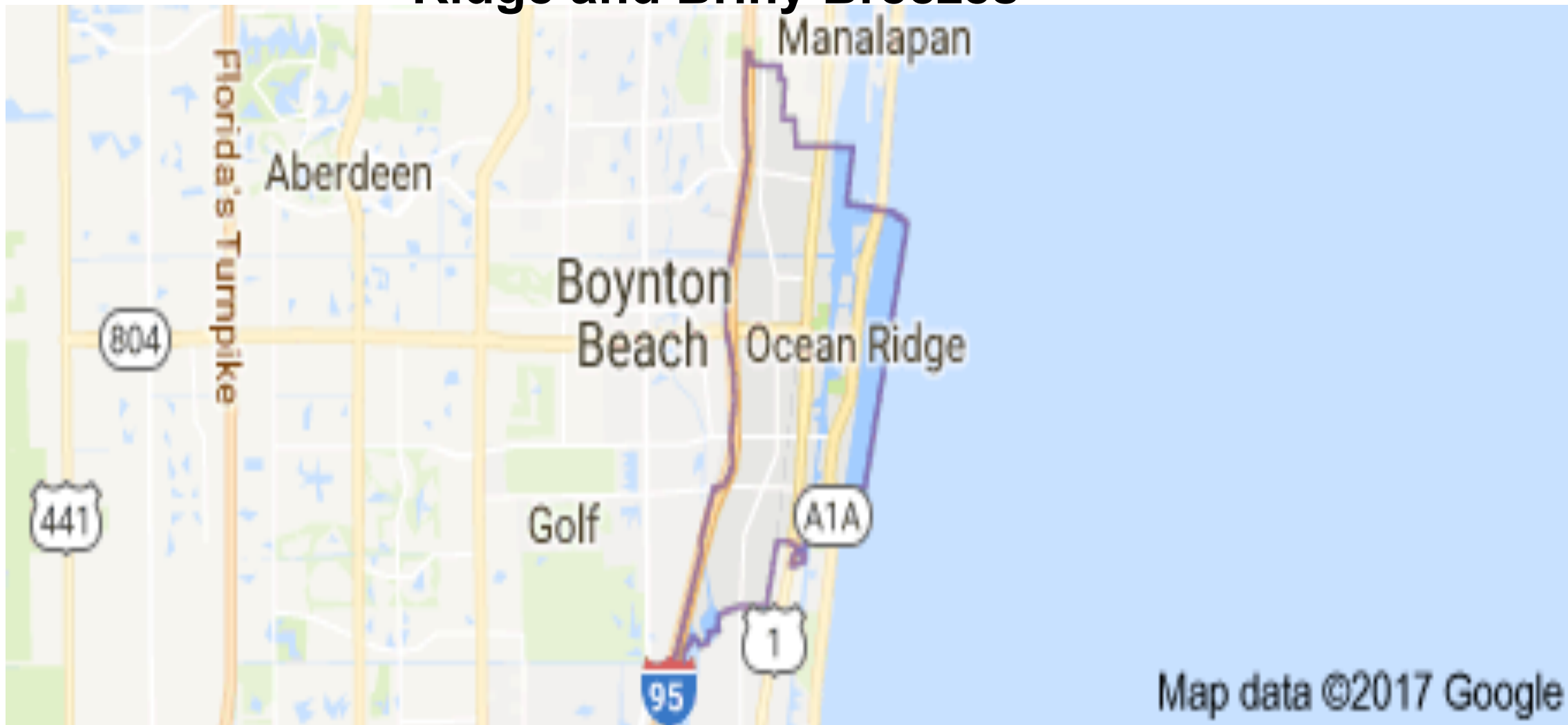
<u>Gender</u>	<u>40 to 49 Years Old</u>	<u>60 Years or Older</u>
Men	4	54
Woman	6	92

Given that 384 out of 675 individuals in the younger age group, or 56.9% were in the 4 or more RF range AND 816 of the 869 individuals in the older age group, or 93.9% were in the 4 or more RF range could mean that age and weight have different and unequal risk factors in developing Type II diabetes.

Residential Zip Codes of Top Ten 4 or More Screened in 2016

<u>Risk Score of 4 or More</u>			
<u>By Residential Zip Code on ADA Tool</u>	<u>Total</u>	<u>Zip</u>	<u>USPS Location ID</u>
1	97	33407	WPB/Riviera Beach
2	95	33435	Boynton Beach
3	86	33430	Belle Glade
4	85	33458	Jupiter
5	77	33411	WPB/RPB/Wellingt
6	72	33401	WPB (Downtown)
7	71	33476	Pahokee
8	66	33404	WPB/PB Shores/Riv
9	64	33463	Greenacres
10	63	33415	WPB/Gracres/Have

LOCATION OF ZIP CODE 33435: Boynton Beach, Ocean Ridge and Briny Breezes



Overview of the Screened Residents of Zip Code 33435

Race of Those Screened	Risk Factors Greater Than Or Equal to 4	No Primary Care Provider	Agree To See Primary Care Provider
White	15	3	3
Black	77	12	4
Asians	1	1	1
No answer	2	0	0
TOTAL	95	16	8

LET US HAVE A LOOK AT THE DEMOGRAPHICS OF 33435

MEN 16,397
 WOMEN 17,796

WHITE 14,675
 BLACK 12,797
 OTHER 432

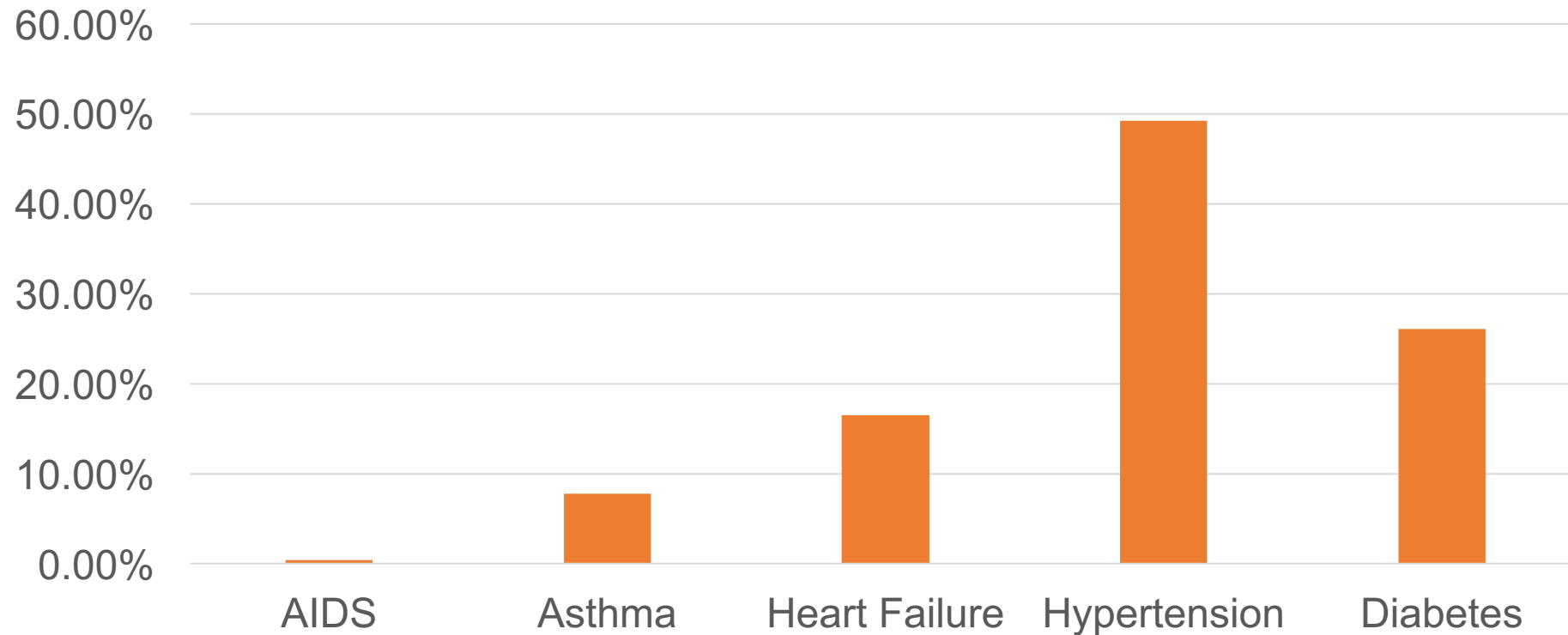
33435

Palm Beach County

NO HEALTH INSURANCE (18 – 64 Years of Age)	22.3%	25.0%
OBESITY 18 Years or Older	26.7%	22.0%
LESS THAN HIGH SCHOOL	19.2%	21.0%
BELOW POVERTY LEVEL	22.9%	14.5%
HIGH BLOOD PRESSURE	33.6%	34.4%
HIGH CHOLESTEROL	35.6%	38.4%
DIAGNOSED W/DIABETES	10.8%	11.0%

Sources:
 2011-2015 Amer Comm
 Survey; FL Charts; County
 Health Rankings, RWJF.

Percentage of Hospitalizations By Chronic Disease, Bethesda Hospital, 2010



Source: Broward Regional Health Planning Council, Health Data Warehouse; Community Health Needs Assessment, Bethesda Hospital, 2012.

For Zip Code 33435: In 2010 there were:

- 3,162 admissions with a diabetes diagnosis.
- The average charge per hospitalization for diabetes was \$57,208.
- Total charges for all admitted patients due to diabetes was \$166,757,227 at Bethesda Hospital.

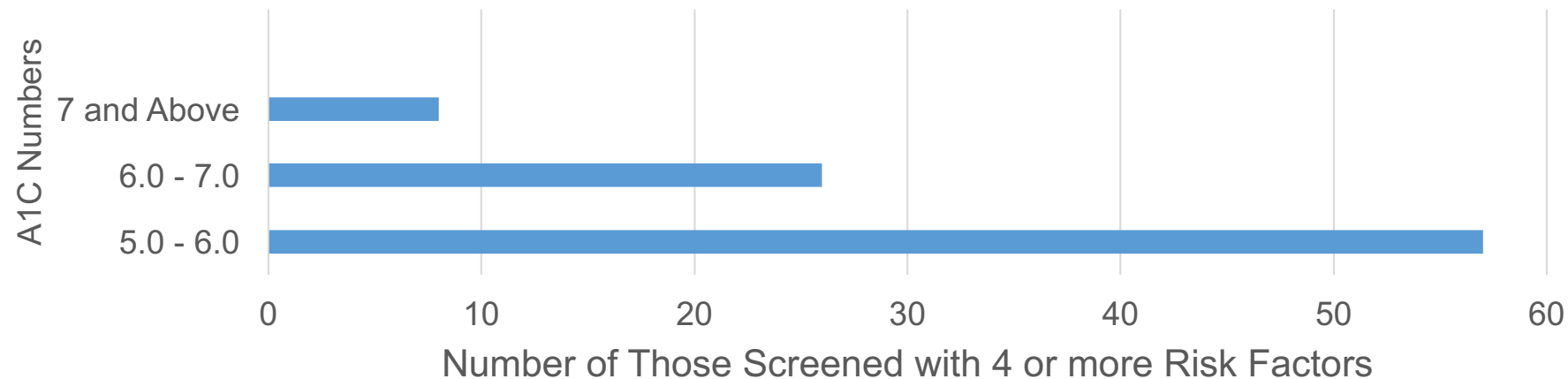
Pilot Sites for A1c Testing in 2016

- FLORIDA BLUE CENTER
- FOUND CARE
- GENESIS-BOCA HELPING HANDS
- MANDEL JEWISH COMMUNITY CENTER
- BRIGHTON COLLECTIBLES

*Two people
screened at
10.5 & 10.6!!*

We expect to implement the A1c testing at all sites for those individuals who screen 4 + risk factors before November 2017!!!

A1c Numbers for Those Screened At Pilot Sites in 2016



At this event, we screened 470 people in one day!!!

We had 75 volunteers from high schools, universities and health care providers.

Healthy cooking demonstrations, locally grown fruits and vegetables, Zumba dancing, and 30 partner organization booths. Raffles and the naming of our mascot, Champ also occurred that day!!!

The poster is for a "diabetes awareness day" event. At the top, it says "KNOW YOUR NUMBERS" with a plus sign icon. Below that, it says "Join us at Palm Beach Outlets at Center Court in support of". The event details are: "diabetes awareness day", "Saturday, November 12", "12-4pm". A circular inset shows a group of people. Below the circle, it says "I-95 at exit 71 Palm Beach Lakes Blvd". On the right side, there are logos for "Diabetes Coalition PALM BEACH COUNTY" and "Palm Healthcare FOUNDATION, INC". Below the logos, there are several bullet points: "Free Diabetes Risk Tests & Screenings by nurses and nursing students", "Goody Bags with diabetes information and a Palm Beach Outlet coupon book for all who get screened", "Healthy Cooking Demonstration", "Zumba Dancing", and "Name our Mascot" with a carrot icon and the text "SEEDS & RUT TO TRUST". At the bottom right, there is the "PALM BEACH Outlets" logo with the address "562 S.W. 3300 | PalmBeachOutlets.com" and a "0000" rating. At the bottom, there is a row of logos for various partner organizations including Tenet Health, Florida Blue, Good Samaritan, and many others.



***A DIABETES COALITION SUCCESS STORY – (One of Many)
TONY ZUNKER
GIVEN THE 1ST HEALTHY AND READY TO THRIVE AWARD FOR
HIS FIGHTING SPIRIT***



Tony's Story:

- ❖ **SCREENED AT THE AMERICAN LEGION – DELRAY BEACH HEALTH FAIR'S DIABETES COALITION SCREENING EVENT**
- ❖ **ADA ASSESSMENT SCORE = 8; GLUCOSE TEST SCORE = 296**
- ❖ **COMMITTED TO GOING TO VA HOSPITAL IMMEDIATELY**
- ❖ **DIAGNOSED WITH TYPE 2 DIABETES – BEING CONTROLLED THROUGH MEDICATION**
- ❖ **HAS LOST WEIGHT, CHANGED HIS DIET, AND A1C SCORE IS DECREASING**

SPONSORING PARTNERS

THE DIABETES COALITION HAS A CONTINUING COMMITMENT TO STRENGTHENING EXISTING FUNDING PARTNERSHIPS AND ESTABLISHING NEW SPONSORING PARTNERS

- ❖ **FOR 2016 DIABETES MONTH EVENTS AND ACTIVITIES, OVER 20 SPONSORING PARTNERS DONATED FUNDS AND/OR IN-KIND DONATIONS**
- ❖ **IN ADDITION TO THE COALITION'S FOUNDING PARTNER, PALM HEALTHCARE FOUNDATION, THE COALITION EXPANDED ITS SPONSORS TO INCLUDE SEVERAL NEW PARTNERS INCLUDING:**

**TENET HEALTHCARE
MOLINA
FIRST WATCH RESTAURANT**

**FLORIDA BLUE
IKEA**

- **KEISER UNIVERSITY – HOSTS THE DIABETES COALITION BEFORE, DURING AND AFTER DIABETES MONTH ACTIVITIES**
- **KINGS PHARMACY – BOYNTON BEACH – DONATED METERS AND GLUCOSE STRIPS**

Future Steps:

.

Automate the process by using tablets at sites instead of paper ADA forms.

.

Collaborate with Healthier Together Neighborhoods focusing on diabetes.

.

Expand the usage of A1c meters to all sites during 2017.

Future Steps continued:

- Revise the ADA tool inclusive of creating methodology allowing for the collection of follow-through data on medical visits.

- Continuation of strategic planning activities to strengthen our volunteer efforts (i.e. 501c(3)).

- Review the evaluation comments from the 2nd Annual Diabetes Symposium to prepare for the next presentation.

**SPONSORED BY COMMISSIONER PRISCILLA TAYLOR, PALM
BEACH COUNTY BOARD OF COMMISSIONERS *PROCLAIM*
NOVEMBER 2016 DIABETES MONTH IN PALM BEACH COUNTY**

