SPECIAL DIABETES PROGRAM FOR INDIANS

Successes & Lessons Learned from the

Diabetes Prevention Program

& Health Heart Project





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Centers for American Indian and Alaska Native Health
University of Colorado – Denver, Anschutz Medical Campus

Overview

- Background
- Implementation
- Evaluation
- -Successes and Outcomes
- -Lessons Learned
- Local-Level Successes

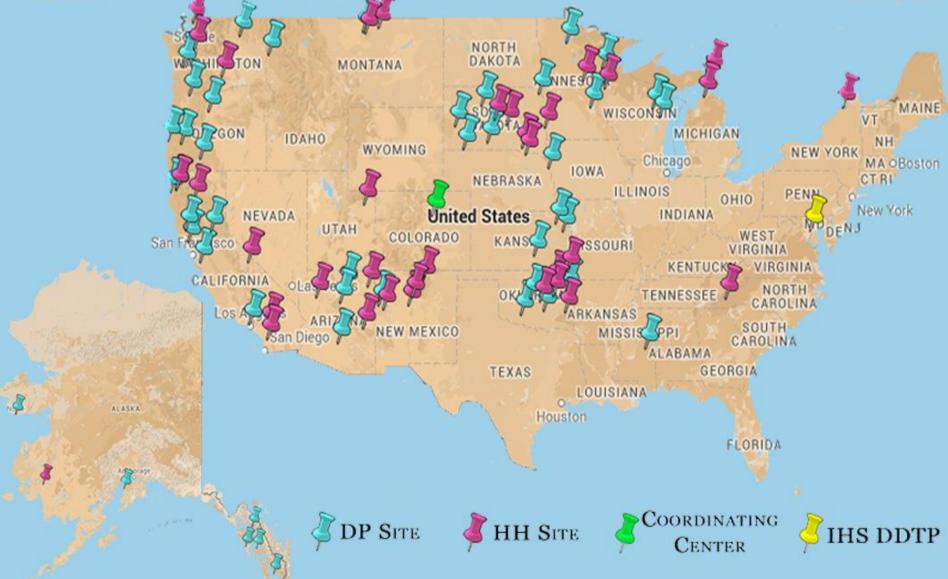
SDPI: Diabetes Prevention Program & Healthy Heart Project

- 2002 Reauthorization of SDPI
 - Congressional direction develop a competitive grant program to demonstrate diabetes prevention and also address the most compelling complication of diabetes (cardiovascular disease)
 - Evaluation required
- 2004 SDPI Demonstration Projects
 - SDPI Diabetes Prevention Program (DP) 36 programs
 - SDPI Healthy Heart Project (HH) 30 programs
 - Collaborative development of activities
 - Comprehensive Program Evaluation
 - Coordinating Center UCD/UA
- 2010 SDPI Initiatives
 - DP Program 38 programs
 - HH Project 30 programs
 - Transition to minimum dataset
 - Emphasis on dissemination



IHS SDPI Diabetes Prevention Program & Healthy Heart Project Initiative Sites







Diabetes Prevention Program

- Core Elements
 - Screen for prediabetes and recruit eligible individuals
 - Goal: enroll 48 people per year
 - Teach 16-session DPP/NLB curriculum in group settings
 - Individual lifestyle coaching
 - Retention/After Core
 - Community activities
 - Goals: prevention of diabetes, weight loss,
 lifestyle changes, improved health outcomes



Healthy Heart Project

Core Elements

- Screen to find people with diabetes and recruit eligible individuals
- Goal: enroll 50 people per year
- Intervention: intensive case management
- Treat CVD risk factors to target goals
- Provide education on CVD risk reduction
- Retention
- Community activities
- Goals: improvement in CVD risk factors, CVD prevention

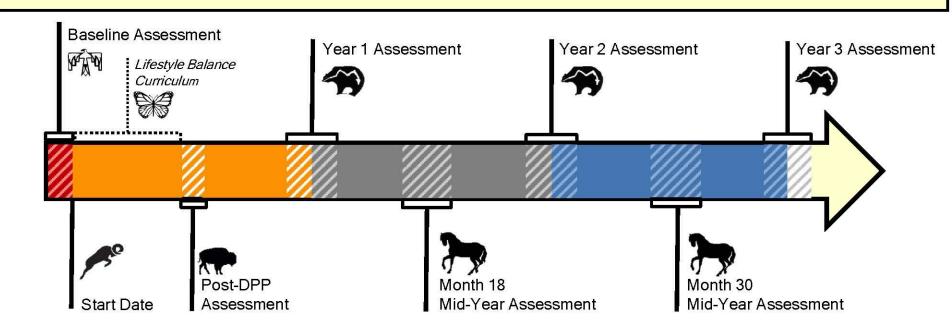
- Congressional direction included a full evaluation of the Demonstration Projects
- Designed as public health program evaluation, NOT research
 - <u>Process</u>: did programs successfully implement the activities? What were the lessons learned?
 - <u>Outcomes</u>: did participants improve on short-term, intermediate and long-term outcomes? What factors were associated with successful participants and programs?
- Initiatives transitioned to a minimum dataset evaluation to reduce data collection burden
- Importance of evaluation: to demonstrate effectiveness, gain support

- Measurements at Grantee Level
 - Provider: Demographic, Professional background
 - Program: Recruitment, Retention, Team activities
 - Organization: Organization effectiveness
 - Community: Community stakeholders' perspective
- Cost Analysis

- Measurements at Participant Level
 - Clinical History
 - Medications
 - Clinical measurements such as: weight, height, waist, BP, lipid profile, & OGTT/FBG/A1c
 - Attendance
 - Self-report survey

- Data Collection
 - Full Evaluation (Demo. Projects)
 - Weekly and yearly data submission on paper, by mail!
 - SDPI Diabetes Prevention Program
 - 12 types of participant-level forms
 - 8 types of grantee-level forms
 - SDPI Healthy Heart Project
 - 8 types of participant-level forms
 - 7 types of grantee-level forms
 - Minimum Dataset (Initiatives)
 - 4 forms total
 - Web-Based Data Entry System

SDPI Assessment Timeline Diabetes Prevention Program





Baseline Assessment

Complete 30 days before the Start Date



Start Date

The first day the participant attends a Lifestyle Balance Session



Lifestyle Balance Curriculum

16 sessions over a 4-6 month period



Post-DPP Assessment

Complete within one month after finishing the Lifestyle Balance Curriculum



Annual Assessment

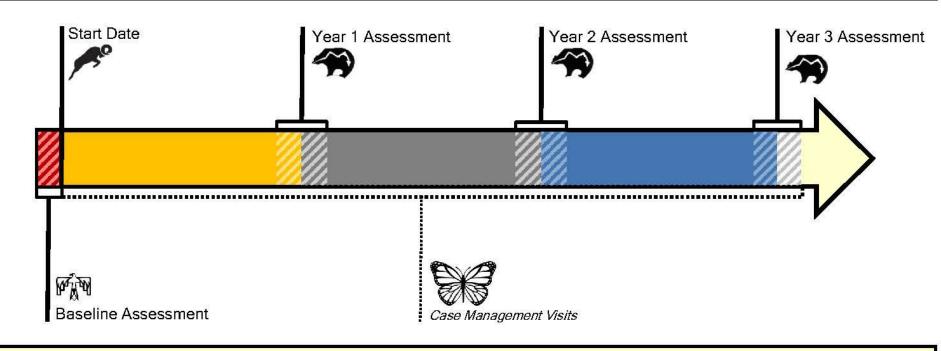
Complete yearly within 30 days of the start date's anniversary



Mid-Year Assessment

Complete yearly within 30 days of the start date's anniversary, plus six months

SDPI Assessment Timeline Healthy Heart Program









Case Management Visits
Monthly or quarterly visits
with a Case Manager,
depending on status
stabilization



Annual Assessment Complete yearly within 30 days of the start date's anniversary

Program Successes & Outcomes

Diabetes Prevention Program





DP Recruitment

- 8495 eligible participants recruited into the SDPI Diabetes Prevention Program through March 31, 2016
- 75% female, 25% male
- Mean age 47 years (18 to 93)

	IHS	Area	
Oklahoma	18%	Phoenix	7%
Bemidji	15%	Nashville	5%
Great Plains	13%	Navajo	5%
California	12%	Albuquerque	3%
Portland	11%	Billings	2%
Alaska	9%		

DP Recruitment

- Billboards
- Brochures
- Calendars
- Community Activities
- Flyers
- Letters
- News Articles
- Presentations
- Referrals



We're American Indians, and we have the power to prevent type 2 diabetes! Science has proven that we can prevent diabetes if we lose as little as 10 pounds by walking 30 minutes a day, 5 days a week and making healthy food choices. Find out how you can join the Lifestyle Balance Program at United Indian Health Services. Your Diabetes Prevention Team will teach you to lose weight through healthy eating and

For more information about diabetes prevention and the Lifestyle Balance Program, call 707-825-5070 or 1-800-675-3693









June 2011



Sun	Mon	Tue	Wed	Thu	Fri	Sat
			2 Auburn-DeWill Farmer's Market 10:30 AM-1:30 PM 1st St & B Ave every Wed.	3	14th Annual Manding Bear Pow Water of Bak- eralistd College, through June 5 (661) 585-3181	I Promit Fallows I Marie Name. On Farm strangulor, Dary Starting with state law. On control Self-Tree sections: I Marie Self-Tree sections: I Marie Self-Tree sections: I Marie Self-Tree Self-Tree sections: I Marie Self-Tree Se
3	5 Denni group Storra Native Alliance 4-6 PM Call Jason for more info: (\$36) 350 (847	7 White Blass Young Adults Group Sierra Native Alliance 4:30- 5:30 PM (530) 330- 0847	*	9 Auburn Art Walk 6 PM 885-5670	16 Craino Night 5-9 PM on Lincoln Way— som authornoraisonis e.com	17 15th Annual Sen Lais Re- Por Wee at San Lais Re- Mission through June 12. (198) 721 8985
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26 Summer Concert Series free concert at 7 PM at Auburn's Library Gra- den Theater 885,5670	27 Post-Veor Drain & Dance Class Sterra Native Alliance 4 -6 PM (539) 339-0847	.24	29	52 North Use 4th of July Pass Work at FT. Duchenne Fow West Area (435) 722-5141		

Enroll Today to be Diabetes Free

Zuni DIPS Program is recruiting Zuni Adults 18 years of age and older who are diagnosed with "Pre-Diabetes".

Screening Process

- 1. Lab Appointment will be scheduled by program. Lab work includes:
 - Fasting/2 Hours Oral Glucose (OGTT)
 - · Lipid Panel (Cholesterol, Triglycerides)
 - · A/C Ratio (check for protein)
 - · HgBA1c (measures blood sugar for the past several months) LABS WILL BE DONE AT IHS
- 2. IHS provider will review lab results and determine eligibility
- 3. If eligible, ECG (Electrocardiogram) will be scheduled at IHS. 4. When all the above is complete, paperwork will be administered at the DIPS Program



FOR MORE INFORMATION Please come by the office or give us a call!! Zuni DIPS Program 03B Route 301 North (505) 782-3091/3095



WHAT WILL I RECEIVE IF I JOIN?

Not only will you enjoy a healthier, energetic lifestyle, you will receive the following tools for success to assist you in the program:

- Nike N-7 Shoes
- Nike Exercise Bag
- Food Scale
- Weight Scale Small exercise equipment to
- assist in keeping active.
- Nike Socks · Nike Water Bottle
- A Chance to win other prizes

Let us help you work towards preventing Diabetes!





Renewah Medical / Wellness Center Native Lifestyle Balance Program P.O.B. 388-1115 B. Street, Plummer, ID 83851

> Call Mel to be screened Phone: 208-686-1931 www.cdatribalwellness.org



NATIVE LIFESTYLE BALANCE PROGRAM - TOP - TOP -

> Diabetes Prevention Program

WHAT IS THE NATIVE LIFE-STYLE BALANCE PROGRAM?

tive classes or enc-on-one conching which include topics on nutrition, physical activity, problem solving, motivation, group support, and stress management. The program will pro-vide participants with the opportuni-ty to learn healthier nutrition options and the importance of moderate physical activity.

After completing the 16-week program we will continue to support your new lifestyle. We offer monthly after one meetings with education, healthy meals, physical activity and group support. We also continue with individual lifestyle balance



WHY IS THE NATIVE LIFE-STYLE BALANCE PROGRAM IMPORTANT?

- Staff will assist you in taking steps to reduce risk and/or prevent Dia
- erate increase in physical activity and a 7% weight loss can decrease your risk of diaboles.
- Participants who made lifestyle changes reduced their risk of get-ting type II diabetes by 58 %.
- Improving your lifestyle and nutrition increases your sense of well-being, reduces stress, improves
- · May contribute to reduction of oth er health risks that can lead to heart
- · Participation in the program gives you tools to become in rharge i improving your health and the health of your loved ones

06

WHAT ARE THE RISK FACTORS FOR DIABETES?

- Native American Heritage
- Age greater than 45 years
 Diabetes during a previous preg-
- Excess body weight (especially around the waist)

 • Family history of diabetes
- · Given birth to a baby weighing more than 9 pounds HDL cholesterol under 35

Referring Provider:

Referring Facility: (Please check below)

NACA Health Center

Other Facility:

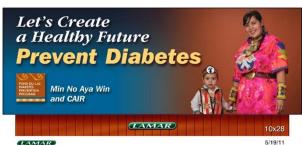
Sacred Peaks Health Center

- · High blood levels of triglycerides a type of fat molecule (250 mg/dL or more)

 High blood pressure (greater than
- or equal to 130/80 mmHg) Impaired glucose tolerance
- Low physical activity level
 Poor Nutrition
- PROGRAM ELIGIBILITY

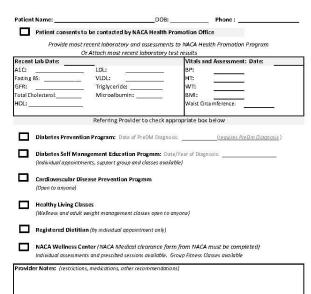
REQUIREMENTS · Enrolled Native American with a

- Federally recognized tribe BMC Patient
- 18 years old or older
- Be willing to screen for Diabetes









Facility Phone Number:

NACA Health Promotion Program

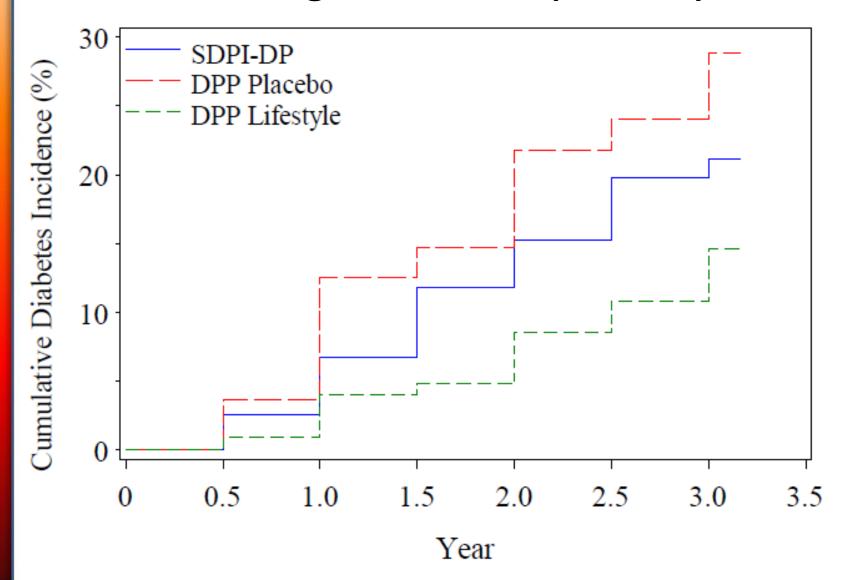
August 2011

DP Outcomes

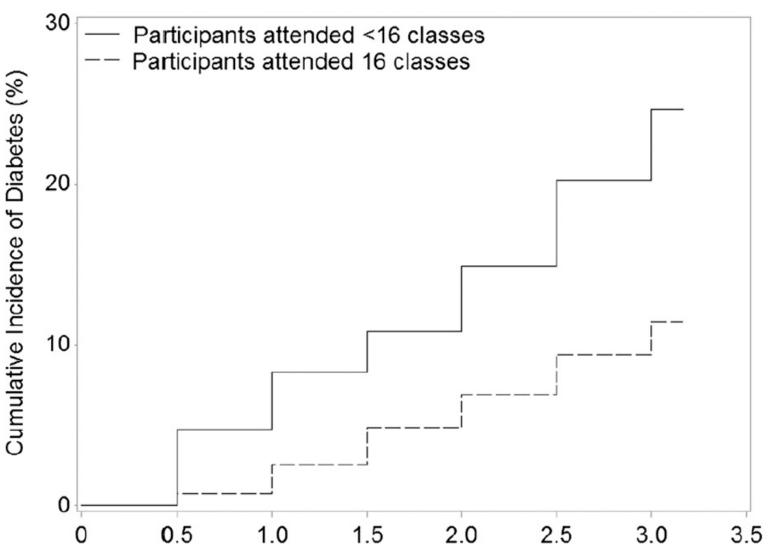
- Weight Loss
- Improved Lipids
- Increased Physical Activity
- Increased Consumption of Healthy Foods
- Decreased Consumption of Unhealthy Foods

*Outcomes presented on 3314 participants who enrolled during the full evaluation phase

Cumulative Incidence of Diabetes in NIH DPP and SDPI-DP participants meeting NIH criteria (N = 648)



Cumulative Incidence of Diabetes by DPP Class Attendance

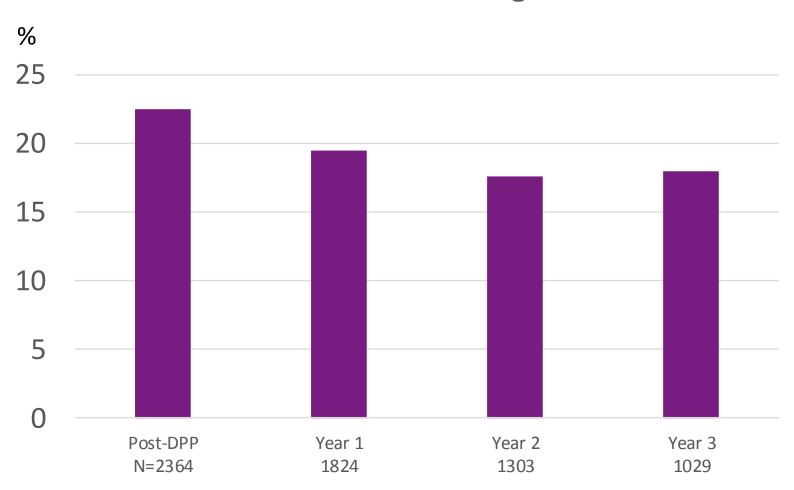


Year

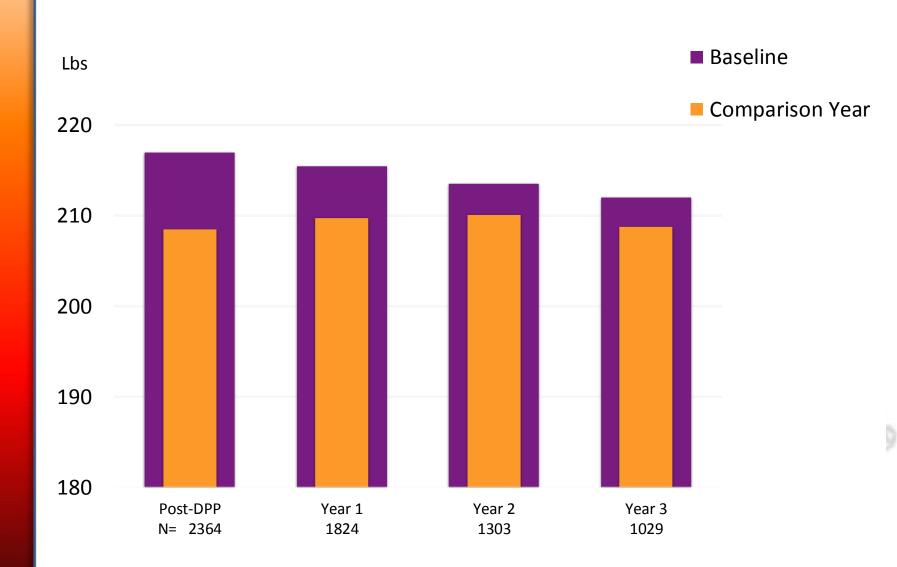
Source: Jiang L, Manson SM, Beals J, et al. Translating the Diabetes Prevention Program into American Indian and Alaska Native communities: Results from the Special Diabetes Program for Indians Diabetes Prevention demonstration project. Diabetes Care. 2013;36:2027–2034.

DP Outcomes

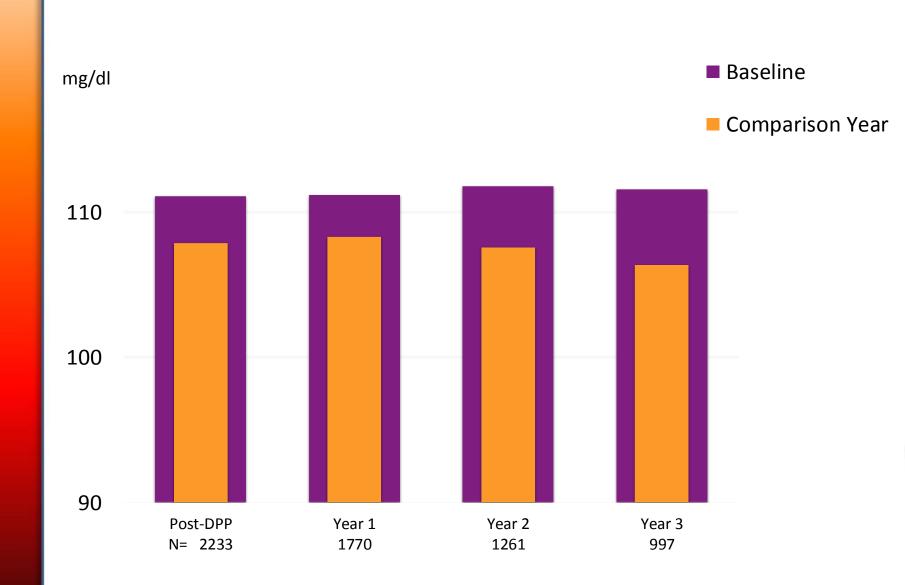
Goal Attainment: 7% Weight Loss



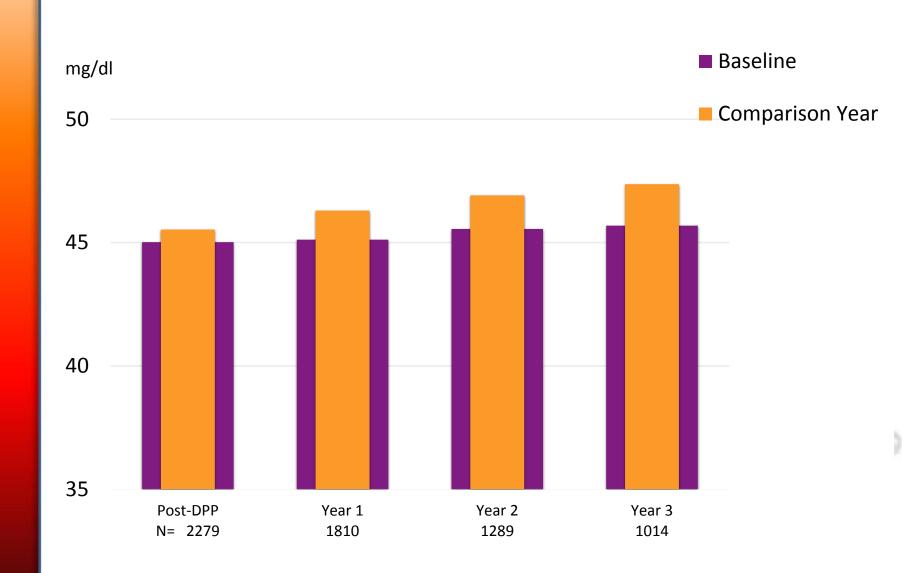
DP: Mean WeightPairwise Comparisons between Baseline (Start) and Each Program Year



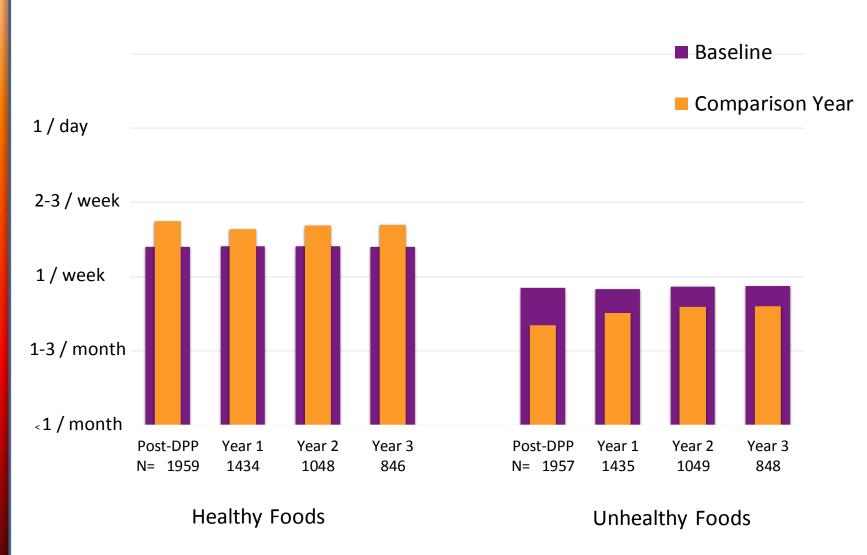
DP: Mean LDL Cholesterol



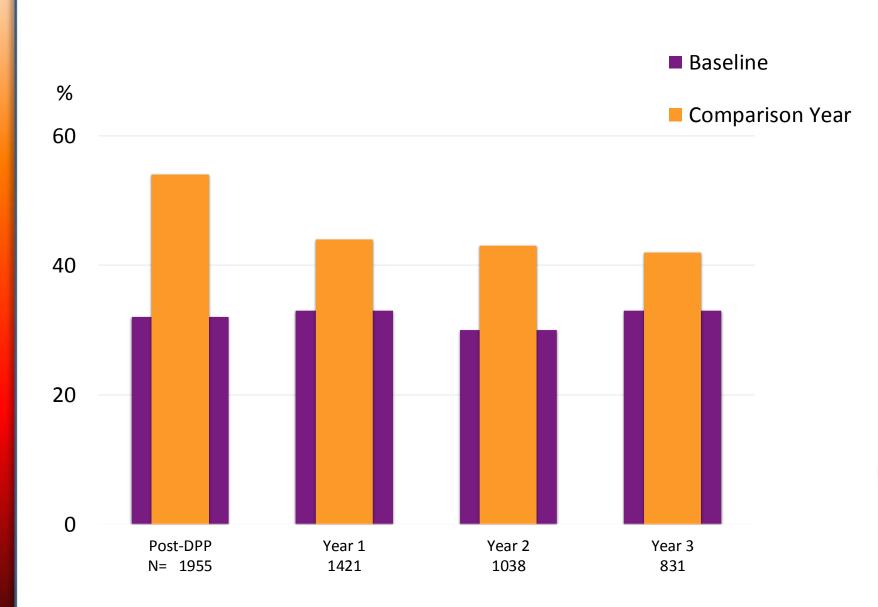
DP: Mean HDL Cholesterol



DP: Mean Frequency of Consuming Healthy and Unhealthy Foods



DP: Percent Engaging in Active Physical Activity



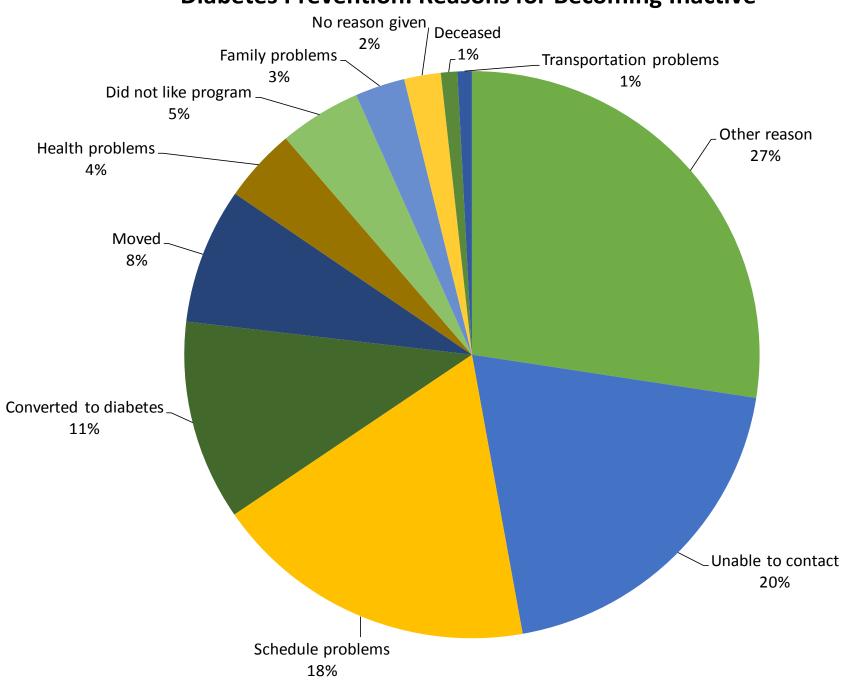
DP Implementation

- Intervention Activities Delivered
 - Lifestyle Balance Curriculum Sessions: 105,767
 - Lifestyle Coaching Visits: 97,348
 - After Core Activities: 44,507
 - Assessments: 25,712 (15 are Year 10)
 - Mid-Year Glycemic Measurements: 9,740

DP Retention

- After Core
- Eliminating Barriers to Participation
- Retention Activities
 - Cooking demonstrations
 - Physical activity classes
 - Cultural events and activities
 - Frequent communication and contact, i.e.
 greeting cards, newsletters, calendars, etc.
 - Educational games
 - MUCH MORE!

Diabetes Prevention: Reasons for Becoming Inactive



Program Successes & Outcomes

Healthy Heart Project



HH Recruitment

- 7579 Eligible participants recruited into the SDPI Healthy Heart Project through March 31, 2016
- 64% female, 36% male
- Mean age 53 years (18 to 93)
- Mean duration of diabetes 8 years
- 13% of participants diagnosed with diabetes at baseline or within the past 6 months

HH Recruitment

	IHS .	Area	
Oklahoma	19%	Great Plains	7%
Portland	15%	Billings	7%
California	12%	Nashville	4%
Phoenix	11%	Navajo	3%
Bemidji	10%	Alaska	2%
Albuquerque	9%	Tucson	1%



HH Recruitment

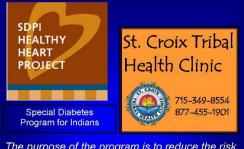
- Billboards
- Brochures
- Calendars
- Community Activities
- Flyers
- Letters
- News Articles
- Presentations
- Referrals



REFERRAL FORM

NACA FHC/Health Promotion Program 1500 E. Cedar Avenue, Suite 26, Flagstaff, Arizona 86004 Phone# (928) 773-1245, Ext. 32 Pax# (928) 773-9429

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The purpose of the program is to reduce the risk of heart disease in people with diabetes.

You could have heart disease if:

- You have diabetes
- . You have high blood pressure
- You have high cholesterol
- . You don't have enough physical activity
- . You weigh more than you should
- . You are a smoker

The Healthy Heart Program can help you manage your diabetes and reduce your risk of heart disease. Just give us a call or stop in for more information. Pam Nichols BSN RN CDE or Lucy Leef CNA CHR 715-349-8854

Who can join the Project?

We are looking for people age 18 and older who have the diagnosis of type 2 diabetes and hare interested in reducing their risk of cardiovascular disease.

You should be willing to participate in monthly clinic visits with a case manager.

You should be willing to stay in the project for up to 3 years.

How can I join the Project?

Let the project staff know that you are interested in volunteering for the project.

They will schedule you for a medical visit to confirm that you are eligible.

If you are interested in volunteering for the project, we will explain the project to you and answer any questions.

> Please call for more information: Phone: 918-675-2044 Other: 918-675-2051

NTHS Heart Savers

Special Diabetes Program for Indians



NTHS Diabetes & Wellness Center Shawnee Community Building 108 Eight Tribes Trail Miami. DK 74354 918-675-2044

NE Tribal Health System Heart Savers Program

Special Diabetes Program for Indians



Diabetes & Wellness Program

Tel: 918-675-2044

What is the Heart Savers Project?

The purpose of the project is to reduce the risk of cardiovascular disease in people with diabetes.

- Diabetes is a serious problem for American Indians.
- Cardiovascular disease, which affects the heart and blood vessels, is a major complication of diabetes and the number one cause of death for American Indians.

Research has shown that it is possible to reduce your risk of cardiovascular disease

- Controlling blood pressure, cholesterol and blood glucose levels.
- Stapping smaking.
- Taking an aspirin a day.
- · Losing weight through a healthier diet and physical activity.

We are looking for volunteers with diabetes to participate in this project, which includes case management services, diabetes clinic visits, and education to reduce risk for cardiovascular disease.

Could I have Heart Disease?

Most people do not know if they have cardiovascular disease until they have an emergency. such as a heart attack or stroke.

You could have heart disease if:

- You have diabetes.
- · You have high blood pressure.
- You have high cholesterol levels.
- · Your blood glucose (sugar) is too high.
- · You weigh more than you should.

Why should I join the Heart Savers Project?

The Heart Savers Project can help you in several ways:

- We will watch your health closely.
- · You will continue to get free checkups and other needed medical tests.
- · You will be offered classes on managing your diabetes and reducing your risk for cardiovascular disease.
- · You will help us learn the best ways to prevent cardiovascular disease.

Taking part in this project is voluntary.







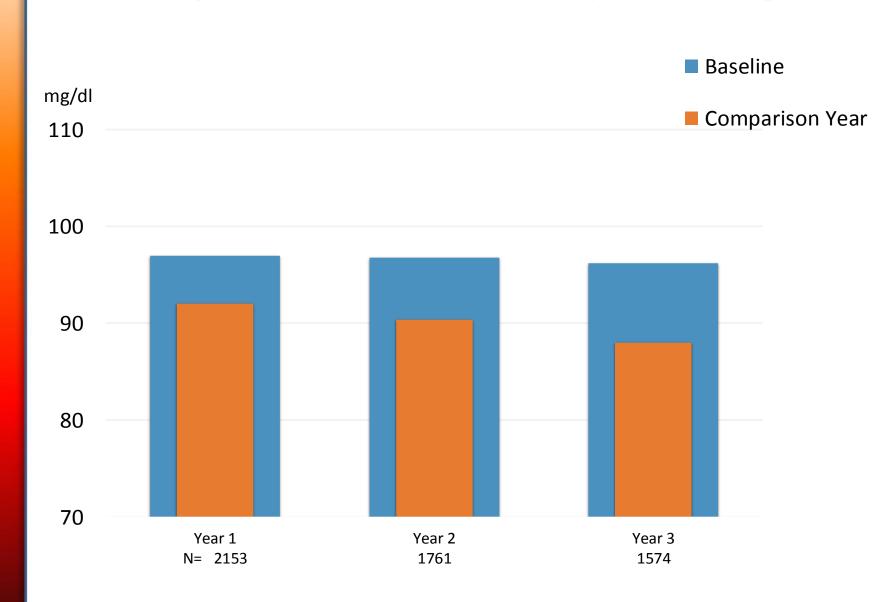


HH Outcomes

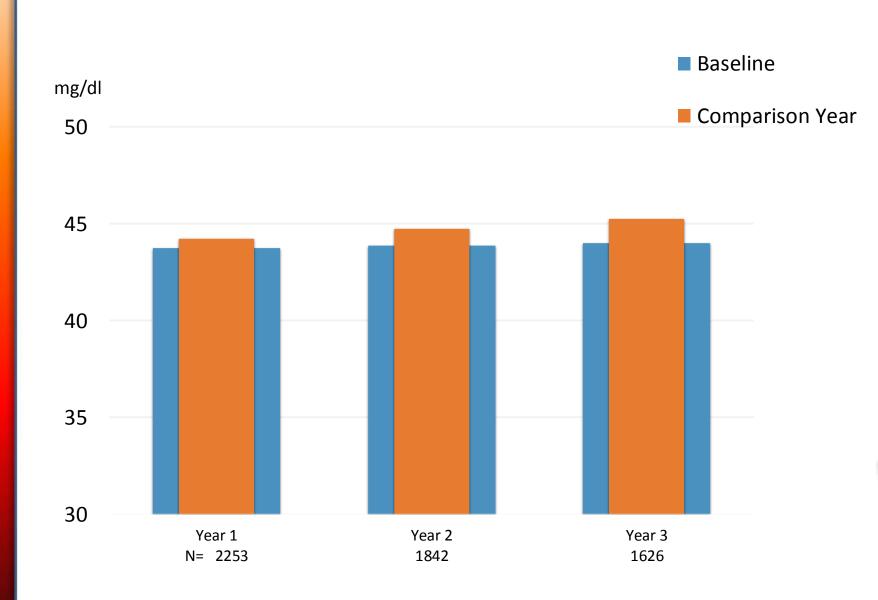
- Improvement in Lipid Levels
- Decrease in Blood Pressure
- Smoking Cessation
- Improvement in Framingham CVD Risk Score
- Weight Loss
- Increase in Healthy Foods Consumption
- Decrease in Unhealthy Foods Consumption

*Outcomes presented on 3353 participants who enrolled during the full evaluation phase

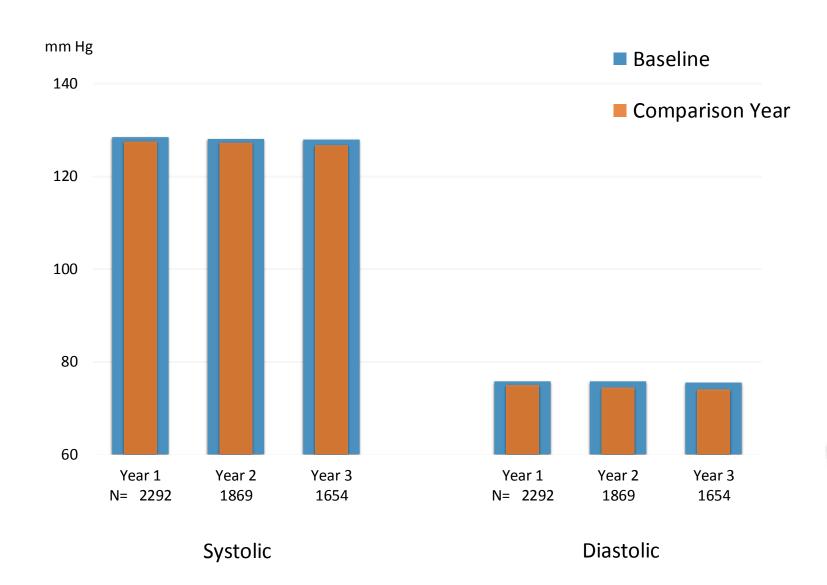
HH: Mean LDL Cholesterol



HH: Mean HDL Cholesterol



HH: Mean Blood Pressure



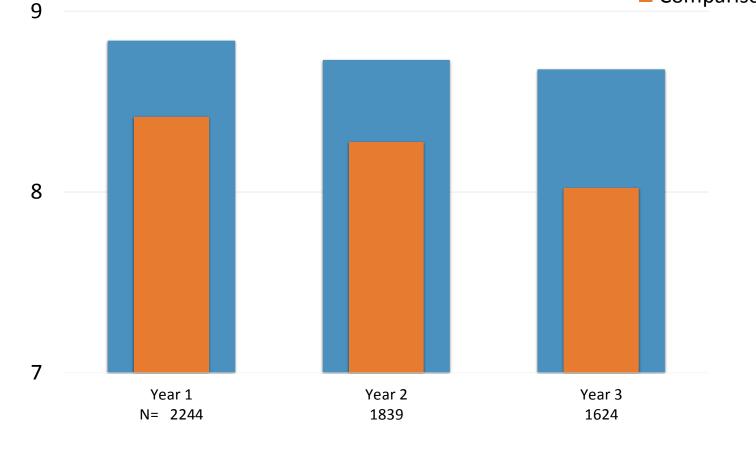
HH: Mean Framingham CHD Risk Score

Pairwise Comparisons between Baseline (Start) and Each Program Ye

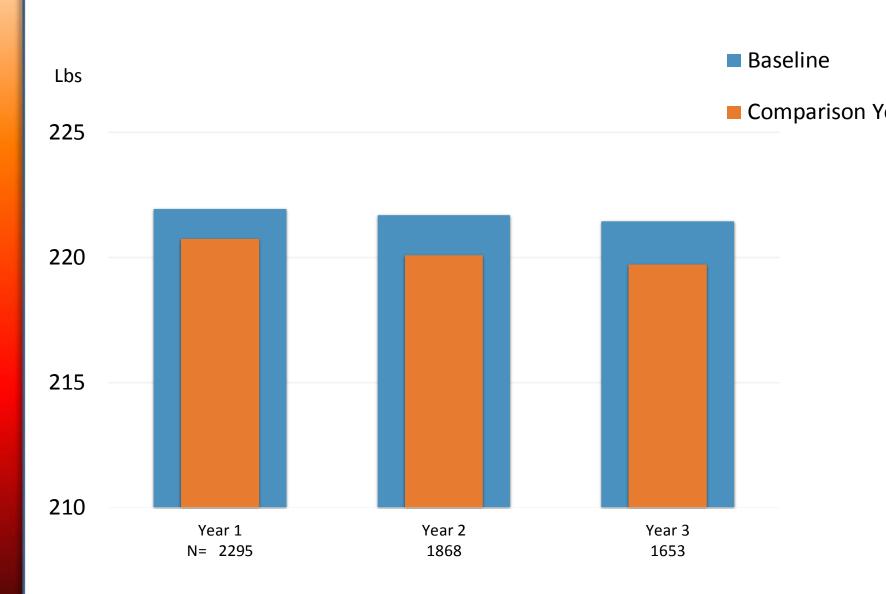
Includes LDL, HDL, blood pressure, smoking status, diabetes status, and age (set to 50-54 years). [Note: The percentage of smokers decreased about 3 percentage points each year from baseline, data not shown.]

Baseline

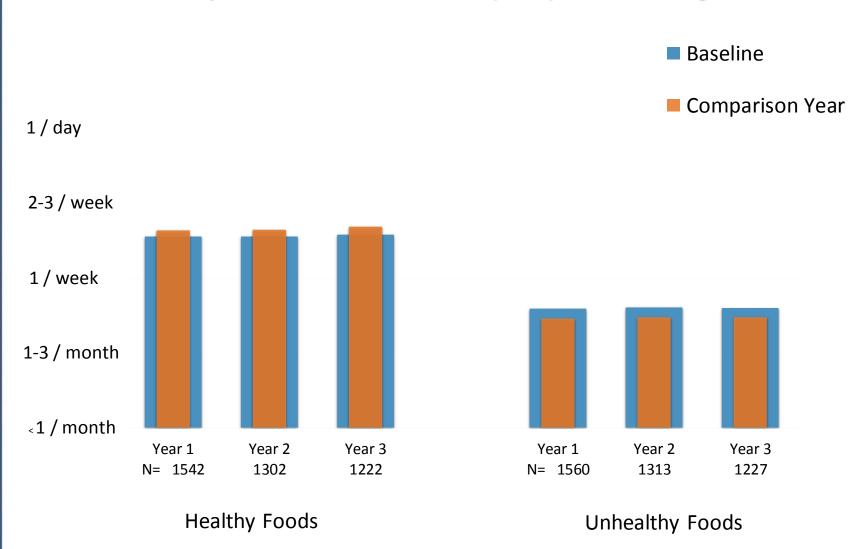
Comparison Yea



HH: Mean Weight



HH: Mean Frequency of Consuming Healthy and Unhealthy Foods



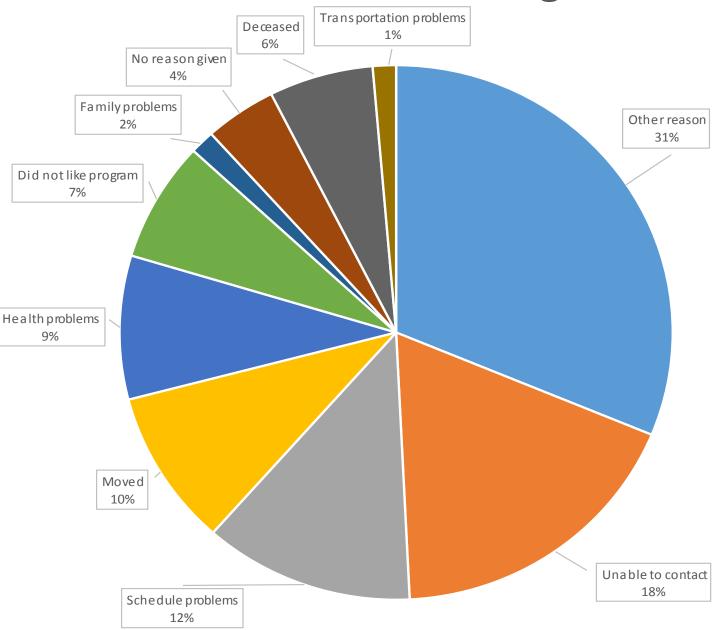
HH Implementation

- Intervention Activities Delivered
 - Case Management Visits: 136,509
 - Other Group Activities: 13,636
 - Assessments: 25,726 (71 are Year 10)

HH Retention

- Eliminating Barriers to Participation
- Retention Activities
 - Gardening
 - Cooking demonstrations
 - Physical activity classes
 - Cultural events and activities
 - Postcards, letters, cards, etc.
 - MUCH MORE!

HH: Reasons for Becoming Inactive

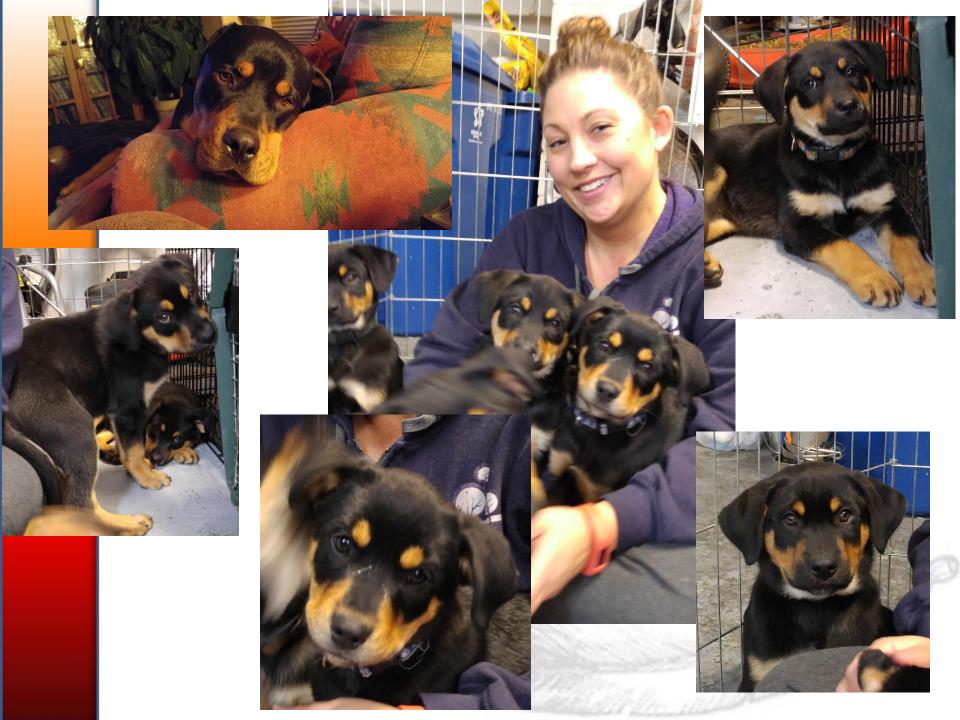


Lessons Learned

- Common activities
- Detailed evaluation
- Collaborative process
- Program staff
- Retention is a challenge
- Support
- Resources

Summary

- DP & HH Demonstration Projects and Initiatives have achieved good results overall
- Importance of evaluation
- Successes and lessons learned can be useful tools and resources



Local-Level Success

Tonya S. Wapskineh, MPH, CHES Coordinator, Diabetes Prevention Program Cherokee Nation

tonya-wapskineh@cherokee.org

Robin John, RPh, CDE
Yakama Healthy Heart Program Coordinator
Yakama Indian Health Service
Robin.John@ihs.gov