Power To Prevent: A Family Lifestyle Approach to Diabetes Prevention

A new product of the National Diabetes Education Program





Objectives

The objectives of this presentation are to

- Review basic information on diabetes
- Introduce the science behind the National Diabetes Education Program's *Small Steps, Big Rewards. Prevent type 2 Diabetes* campaign
- Provide a brief overview of NDEP products in general
- Introduce a new NDEP product
 - Power To Prevent: A Family Lifestyle Approach to Diabetes Prevention





What is Diabetes?

Diabetes is a group of diseases characterized by high levels of blood glucose (blood sugar)

Diabetes can lead to serious health problems and premature death

About 21 million Americans have diabetes



National Diabetes Statistics fact sheet., 2005.



Common Types of Diabetes

Type 1 diabetes

 5% to 10% of diagnosed cases of diabetes

Type 2 diabetes

 90% to 95% diagnosed cases of diabetes





Common Types of Diabetes

Gestational diabetes mellitus

- 7% of all U.S. pregnancies, or about 200,000 cases annually
- Increased lifelong risk for mother and child for developing type 2 diabetes

National Diabetes Statistics fact sheet., 2005.





Risk Factors for Diabetes

Older age
Overweight (BMI ≥ 25)
Hypertension
Abnormal lipid levels
Family history of diabetes
Race/ethnicity
History of gestational
diabetes (GDM)

History of vascular disease
Signs of insulin resistance
PCOS (polycystic ovary
syndrome)
Previous IGT (impaired
glucose tolerance) or IFG

(impaired fasting glucose)
Inactive lifestyle

American Diabetes Association. Diabetes Care 2007;30(Suppl.1):S4-41.





Diabetes Complications

2 of 3 people with diabetes die from heart disease or stroke

Diabetes is the #1 cause of adult blindness

Diabetes is the #1 cause of kidney failure

Diabetes causes more than 60% of non-traumatic lower-limb amputations each year

A joint initiative of the CDC and NIH





Why is diabetes a serious concern?

Because EVERY 24 HOURS there are

- 4,100 new cases of diabetes,
- 810 deaths due to diabetes,
- 230 amputations,
- 120 kidney failures, and
- 55 new cases of blindness



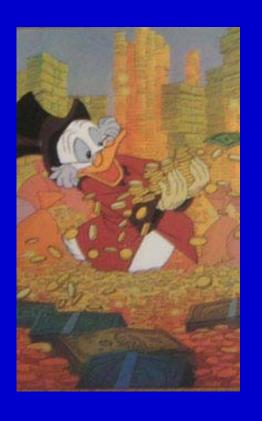
Source: National Diabetes Statistics fact sheet. 2005.



Estimated Cost of Diabetes in the United States

- Direct Medical Cost: \$92 billion
- Indirect Cost:\$40 billion
- Total Cost:\$132 billion

Source: Lewin Group, Inc., for the American Diabetes Association, 2002.







The Good News:

Diabetes can be prevented and controlled.

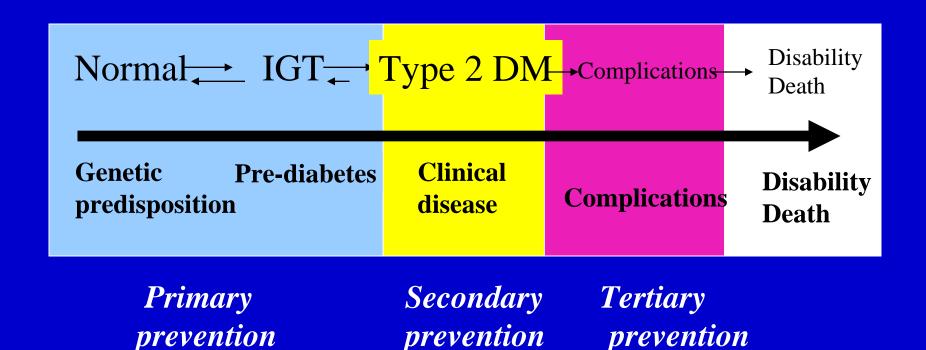
Changing the way diabetes is treated







Stages in the natural history of Type 2 diabetes







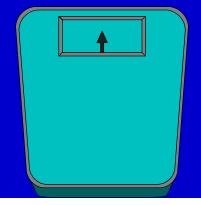


Diabetes Prevention Program (DPP) Lifestyle Intervention

Intensive Lifestyle Modification
A comprehensive program with the following specific aims:

- Reduction of fat and calorie intake
- Physical activity at least 150 minutes / wk
- > 7% loss of body weight







Diabetes Prevention Program

Participants who achieved a 5-7% loss of body weight (e.g., 10-15 lbs in a person overweight at 200 lbs), reduced progression to diabetes by 58%

Among people 60 years and older, lifestyle changes reduced the development of diabetes by 71 percent.





National Diabetes Education Program Changing the Way Diabetes Is Treated



A joint initiative of the CDC and NIH





What is NDEP?

- NDEP is a joint initiative of the National Institutes of Health (NIH) and the Centers for Disease Control and Prevention (CDC) with a partnership network of more than 200 public and private organizations
 - Traditional partners such as the American Diabetes Association
 - Non-traditional partners such as the National Urban League
- United by a common mission: to change the way diabetes is treated





Two main NDEP campaigns



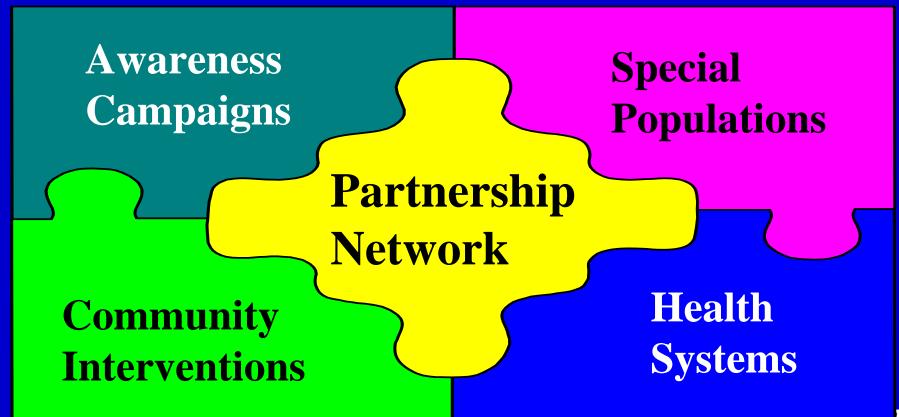


The National Diabetes Education Program Changing the Way Diabetes is Treated.





5 Core Components of NDEP







ndep.nih.gov

2,431,016 million people visited NDEP's Web site in 2006.





NDEP is a partnership of the National Institutes of Health, the Centers for Disease Control

and Prevention, and more than 200 public and private organizations.



About Diabetes and Pre-diabetes

Learn what you need to know about diabetes, including ways to control or prevent the disease. Information for parents, children and high-risk minority populations also is available, including materials in Spanish, Asian and Pacific Islander languages.

Resources for Health, Education, and Business Professionals

Find patient education materials and diabetes education resources and tools designed especially for health care professionals, school personnel, and business and managed care.

Awareness Campaigns

Online access to NDEP campaigns and tools, get help starting a campaign and tips for working with the media.

Partnerships

Learn how to work with the NDEP to promote diabetes prevention and control in your community or organization.

About NDEP

Find out more about the National Diabetes Education Program and how it works to-"change the way diabetes is treated."

NDEP Overview (PDF*291k)

NDEP News & Notes

NDEP's Monthly E-Newsletter

November is National Diabetes Awareness Month



NDEP joins the American College of Cardiology (ACC) and the

American Diabetes Association (ADA) to increase awareness about the critical link between diabetes and related cardiovascular complications. In recognition of National Diabetes Awareness Month, the message encourages people with diabetes to be proactive in decreasing their risk of heart disease by managing the "ABCs of Diabetes"-A1C blood glucose levels, blood pressure, and cholesterol. View print PSAs.

campaigns







Logo Use Policy





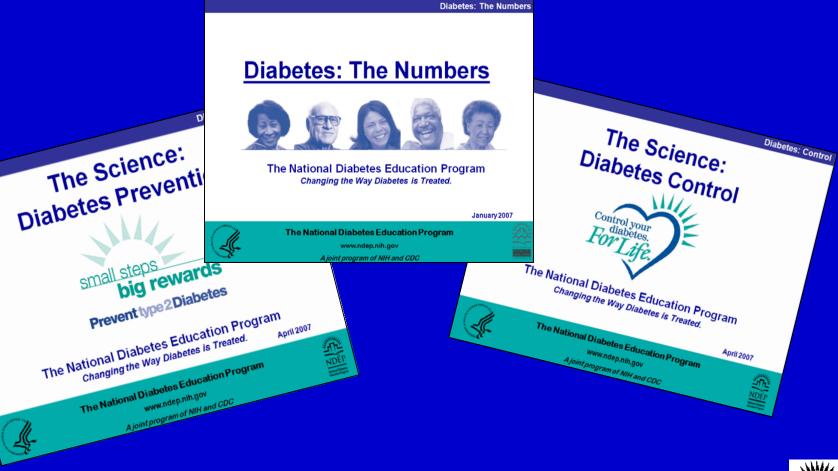
NDEP Campaign Materials: Control & Prevention







PowerPoint Presentations







Other NDEP Web sites





Health Promotion/Wellness program

managers

Making Systems Changes for Better Diabetes

Care is a National Diabetes Education Program website that provides information, models, links, resources and tools to help health care professionals:

- Assess needs for systems change
- · Develop strategic plans
- · Implement tools for action
- · Evaluate the systems change process

Now CE Available!

from Indiana University for using this website. Learn more, or click on the CE logo to start earning credit!

Get CE/CME credit

Tour This Site

Starting Tips

The Better
Diabetes Care website has been revised and updated to include many new materials and tools. more>





· People with or at risk for diabetes

Racial and ethnic populations are especially hard hit by diabetes.















A message from the National Diabetes Education Program



Get Real!

You don't have to knock yourself out to prevent diabetes.

> Ask me about starting your GAME PLAN to prevent type 2 diabetes.











What could we learn from the DPP?

- Goals simple, realistic, and incremental with some short-term successes
 - Program goal lose 5 10% body weight
 - Short-term goal "walk briskly 10 minutes a day, 3 times a week"
- Accountability report progress
- Monitoring DPP Food and Activity Tracker and a fat counter booklet
- Effectiveness
 - In the DPP patient monitoring and documentation were key to success





GAME PLAN toolkit

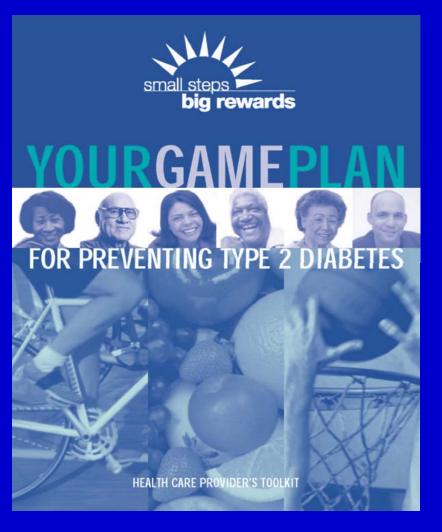
Goals, Accountability,
Monitoring, and Effectiveness:
Prevention through a Lifestyle
of Activity and Nutrition

Focus on "Your GAMEPLAN for Preventing Type 2 Diabetes"





For Health Care Providers: GAME PLAN Toolkit







GAMEPLAN Toolkit

- Overview of the GAMEPLAN
- Risk Assessment Tool
- "Walking... A Step in the Right Direction"
- Food Diary
- Calorie Counter



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A joint initiative of the CDC and NIH

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Food and Activity Tracker





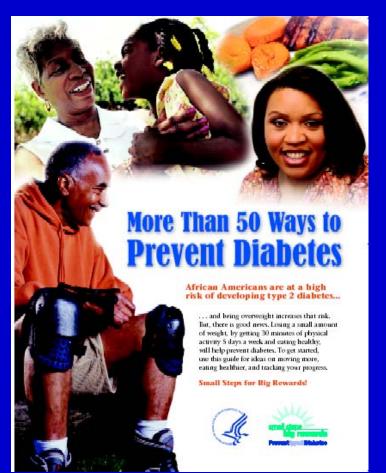
High-Risk Audience Materials







African American/African Ancestry work group





Reduce portion sizes.

- #1 Less on your place, Nate
- *2 Keep meat, poultry and fish servings to about 3 ounces (about the size of a deck of cards).
- 3 Make less food look like more by serving your meal on a salad or breakfast plate.
- 4 Try not to snack while cooking or cleaning the kitchen.
- *5 Try to eat sensible meals and snacks at regular times throughout the day.
- #6 Make sure you eat breakfast every day.
- Use broth and cured meats (smoked turkey and turkey becon) in small amounts. They are high in sodium. Low sodium broths are available in cans and powder.
- #8 Share your desserts.
- #9 When eating out, have a big vegetable salad, then split an entree with a friend or have the other half wrapped to go.

- \$10 Stir fry, broil or bake with non-stick spray or low sodium broth and try to cook with less oil and butter.
- 11 Drink a glass of water or other "no-calorie" beverage 10 minutes before your meal to take the edge off your appetite.
- *12 Select the healthier choice at fast food restaurants. Try grilled chicken instead of the cheeseburger. Skip the french fries or replace the fries with a salad.
- Listen to music while you eat instead of watching TV (people tend to eat more while watching TV).
- #14 It takes 20 minutes for your stomach to send a signal to your brain that you're full. Eat slowly.
- #15 Fat a small meal. Ludlle.
- #16 Teaspoons, salad forks, or child-size utensils may help you take smaller bites and eat less.
- You don't have to cut out the foods you love to eat. Just cut down on your portion size and eat it less often.

Add more physical activity to your daily routine.

- #18 Dance It away, Fave.
- \$19 Show your kids the dances you used to do when you were their age.
- Y20 Turn up the music and jam while doing household chores.



- Deliver a message in person to a co-worker instead of e-mailing.
- #22 Take the stairs to your office. Or take the stairs as far as you feel comfortable, and then take the elevator.
- #23 Make a few less phone calls. Catch up with friends during a regularly scheduled walk.
- #24 March in place while you watch TV.
- #25 Park as far away as possible from your favorite store at the mall.
- \$26 Select an exercise video from the store or library.
- Get off the bus one stop earlier and walk the rest of the way home or to work at least two days a week.





#28 Snack on a reggle, Reggle #29 Try getting at least one new fruit or vegetable every time you grocery shop. #30 Macarom and low-fat cheese can be a main dish. Serve it with your favorite vegetable dish and a salad. #31 Try eating foods from other countries. Many international dishes feature more vegetables, whole grains and bears and less meat.

- #32 Cook with a variety of spices instead of salt.
- Find a water bottle you really like (church or club event souvenir, favorite sports team, etc.) and drink water from it wherever and whenever you can.
- #34 Always keep a healthy snack with you.
- #35 Choose veggie toppings like spinach, broccoli and peppers for your pizza.
- #36 Try different recipes for baking or broiling meat, chicken, and fish.
- #37 Try to choose foods with little or no added sugar.
- #38 Gradually work your way down from whole milk to 2% milk to 1% milk until you're drinking and cooking with fat free (skim) milk.
- #39 Try keeping a written record of what you eat for a week. It can help you see when you tend to overeat or eat foods high in fat or calories.
- #40 Ent foods made from a variety of whole grainssuch as whole wheat bread, brown rice, outs, and whole grain com-every day. Use whole grain bread for toast and sandwiches; substitute brown rice for white rice for home-cooked meals and when dining out.
- #41 Don't grocery shop on an empty stomach and make a list before you go.
- #42 Read food labels. Choose foods with lower fat, saturated fat, calones, and salt.
- #43 Fruits are colorful and make a welcoming centerpiece for any table. Have a nice chat while sharing a bowl of fruit with family and friends.
- \$44 Slow down at snack time. Eating a bug of low-fat popcorn takes longer than eating a slice of cake. Peel and eat an orange instead of drinking orange juice.

Nurture your mind, body, and soul.

- #45 You can exhale, 6all.
- 646 Don't try to change your entire way of eating and exercising all at once. Try one new activity or food a week.
- #47 Find mellow ways to relax try deep breathing, take an easy paced walk, or enjoy your favorite easy listening
- *48 Give yourself daily
 "pampering time" and honor
 this time like any other
 appointment you make...
 whether it's spending time
 reading a book, taking
 a long both, or meditaing.
- #49 Try not to eat out of boredom or frustration. If you're not hungry, do something else.
- #50 Honor your health as your most precious gift.



Be creative.

- vsi Make up your own, Tyrone or Simone.
- #52
- #53

There are many more ways to prevent type 2 diabetes with heal thy eating and physical activity. Discover your own and share it with your family, friends and neighbors.

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For more information about diabetes prevention, call 1-800-438-5383

and get your free GAME PLAN for preventing type 2 diabetes

www.ndep.nih.gov

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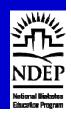




Focus group research with African Americans

- Fatalistic attitude that diabetes is inevitable is common
- Diabetes viewed by African Americans as less serious than other health concerns (e.g., HIV, cancer)
- Many barriers to changing behavior around food and physical activity
- Recommendation of 150 minutes of physical activity weekly was viewed as difficult to accomplish





Focus group recommendations

- Teach people <u>how</u> to lose weight and eat healthfully.
- Messages should be simple, direct, tied to consequence of having diabetes.
- Importance of family involvement and peer support.
- Counter pessimism about being able to make changes.
- Need options: different things work for different people.
- Address both people with diabetes and those at risk.





Power to Prevent



A Family Lifestyle Approach to Diabetes Prevention











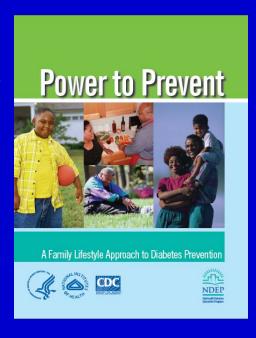


Power To Prevent: A Family Lifestyle Approach to Diabetes Prevention

- Community education intervention for the family that focuses on
 - Physical activity
 - Healthy eating, and
 - Incorporates DPP results
- Uses existing tried-and-proven NDEP tools such as the GAME PLAN toolkit materials (Fat and Calorie Counter, Food and Activity Tracker)



- Twelve 60 90 minute modules
- Suggestion: modules once/week for 6 weeks, then once/month
- Uses Adult Learning Theory
- Behavioral approach based on the DPP experience
- Use curriculum to guide small groups through measuring, learning, practicing and maintaining healthy behavior changes.







- Integrate behavior change into daily routine
- New concepts introduced each class build on foundation of behavior change patterns established in first 6 weeks
- Additional optional activities within modules
- Session 6 can be expanded to three sessions if more focus on diabetes care desired by group





- Introduction
- Program Leader's Guide
- Program Participants Guide
- Twelve session modules (plus optional activities in each module)





- Session 1: Introduction to Power To Prevent
- Session 2: Small Steps Lead To Big Rewards
- Session 3: Strategies for Healthy Eating
- Session 4: Physical Activity Get Moving Today
- Session 5: Make Healthy Food Choices
- Session 6: Diabetes Overview





- Session 7: Physical Activity for Families
- Session 8: Portion Size
- Session 9: Navigating Around Eating Out
- Session 10: Partner With Your Health Care Provider
- Session 11: Get Your Family and Friends Involved
- Session 12: Celebrate Big Rewards

Evaluation tools included in the Appendix





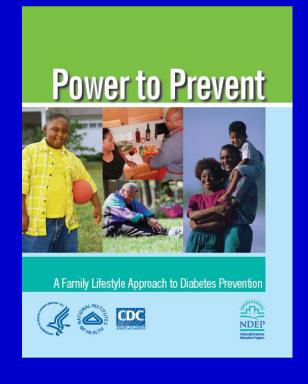




A joint initiative of the CDC and NIH

Disclaimer

- Power To Prevent is not intended to provide diabetes care education or to replace individualized sessions with a diabetes educator or dietitian
- Power To Prevent is a curriculum to help individuals in small groups and/or families learn healthy habits around food and physical activity, support one another in making and maintaining changes







Power to Prevent

A Family Lifestyle Program for Diabetes Prevention

Facts:

- · More than 13% of African Americans over 20 have diabetes. That's almost 1 in 7.
- The number of people with diabetes in the United States has more than tripled in in one generation (1980 to 2005)
- African Americans are developing type 2 diabetes at younger ages, even as children.
- Diabetes is serious, common, costly yet controllable and preventable.
- Scientists estimate that of people born in 2000, one in three will develop diabetes www.cdc.gov/diabetes



This multigenerational curriculum helps African American families and communities prevent and control diabetes through healthy eating and increased physical activity.

The curriculum contains:

Developed for community-based organizations, faith-based communities, diabetes educators and other program leaders, this curriculum contains:

- Twelve 60-90 minute interactive modules focusing on physical activity, nutrition and diabetes prevention
- A leader's guide with steps for a successful program
- Evaluation tools to help leaders know if they are making a difference
- · Accompanying CD-ROM with free materials that you can use to enhance the program

Be part of that change. Order your free copy of the Power To Prevent curriculum by calling

1-800-438-5383, shipping and handling fees may apply. Of visit www.ndep.nih.gov for a free downloadable version.

The U.S. Department of Hostin and Human Semicor National Disbates Education Program is girlifty sparsared by the National Institutes of Health and Centers for Disease Control and Provention with the support of more than 200 pother organizations. (Date) 2007





The risk is great. The goals are modest. The action steps are clear.

Change is not easy, but the DPP demonstrated that it can be done.





How Can You Access NDEP's Resources?

Visit the NDEP's Web sites:

www.ndep.nih.gov

www.cdc.gov/diabetes/ndep

www.diabetesatwork.org

www.betterdiabetescare.nih.gov



Call 1-800-438-5383



