

Indian Health Service Division of Diabetes Treatment and Prevention

Balancing Your Life and Diabetes





Department of Health and Human Services Public Health Service



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IV.

Preface

This curriculum was developed through the efforts of many people.

We are grateful to the American Diabetes Association for permission to use *Life with Diabetes: A Series of Teaching Outlines* as a template for the development of *Balancing Your Life and Diabetes*.

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Special thanks are given to Kayano Design/Write, Rochester, Washington, for design, preparation, and revision of the materials.

You may use any of the materials in this curriculum and make changes to adapt them to your specific needs. We request that any adapted materials be credited with the following statement:

These materials were adapted from *Balancing Your Life and Diabetes*, Indian Health Service, 2010.

We hope you find the curriculum useful for diabetes self-management education in your community. Please forward any comments or suggestions to the address below.

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To order FREE copies of Balancing Your Life and Diabetes, go to: www.diabetes.ihs.gov. click on Online Catalog, and then Educational Resources for Patients with Diabetes.



About the Art

Art Restrictions

The art appearing in this curriculum is copyrighted and is the property of the Patrick DesJarlait Estate. It may only be copied exactly as it appears on the page, with the image in its entirety and used as a curriculum page.

Art Titles

Front Cover: Maple Sugar Spring, 1970

Page 1, Session #1: Maple Sugar Time, 1946

Page 17, Session #2: Father and Child, 1970

Page 35, Session #3: Indian Education, Unknown

Page 49, Session #4: Red Lake Fishermen, 1946/1961

Page 79, Session #5: Chippewa Dancer, 1964

Page 91, Session #6: Chippewa Preparing for Battle, 1971

Page 125, Session #7: Drying Corn, 1971

Page 139, Session #8: Basket Maker, 1970

Page 153, Session #9: Woman and Blueberries, 1971

Page 173, Session #10: Mother and Child, 1970

Page 199, Session #11: Chippewa Dancer, 1970

Page 215, Session #12: Untitled, 1972

About the Artist

Patrick DesJarlait (1921-1972) was a well-known artist who devoted his talents to painting pictures of the lives of the Chippewa on Red Lake Indian Reservation in northern Minnesota. Through his art, Mr. DesJarlait demonstrated his people's love and respect for their heritage and their land.

Many thanks to the DesJarlait family for allowing the art to be used in this curriculum. While producing the curriculum, stories of Patrick DesJarlait's love of his people and his dedication to education emerged. Mr. DesJarlait spent his final years visiting schools to encourage young people to pursue education and to learn about their heritage.



Introduction

Purpose:

The primary purpose of the *Balancing Your Life and Diabetes* curriculum is to provide health professionals working in American Indian and Alaska Native communities with a framework for diabetes education in a one-on-one or group setting.

Description:

This curriculum provides basic information about type 2 diabetes, diabetes self-care and general health care practices. It addresses the 10 content areas outlined in the *National Standards for Diabetes Self-Management Education* (Diabetes Care, May 2000).

Diabetes teams may use the curriculum in whole or in part, tailoring it to the needs of the person with diabetes (identified in the individual educational needs assessment), their family and their community. Additional materials may be given to the learners (participants) on topics of interest or advanced topics, that are not covered in this curriculum.

The information included in the core teaching sessions (outlines) comes from many sources and has been reviewed by content experts. Local instructional staff needs to review, adapt and update content as appropriate.

This curriculum is only one component of an educational program and educational process. It is not a substitute for staff development and education, nor is it intended to teach the instructor diabetes content or the "how-to" of the teaching process. Health professionals will be effective teachers when they learn diabetes care and methods of behavior change, teaching and counseling before they engage in diabetes education activities.

Organization:

This curriculum manual is organized under 5 tabbed sections as follows:

Tab I: Introduction

This section outlines the curriculum's purpose, description, organization, delivery options and session structure. It also offers teaching tips and information on teamwork and for learners (participants) with special needs.

Tab II: Learning Objectives and Education Codes

This section lists all curriculum <u>Learning Objectives</u> and identifies the appropriate Indian Health Service (IHS) Patient and Family Protocols and <u>Education Codes</u> for diabetes education documentation on the Patient Care Component (PCC) in the medical record. An example of how to document diabetes education on the PCC using the <u>Education Codes</u> is included.

Tab III: Core Teaching Sessions

Each session includes the following:

- Statement of Purpose
 - This is a summary of the intent of the lesson.
- Prerequisites

- This describes the recommended learner knowledge/skill level needed prior to attending the session.
- Learning Objectives
 - These are statements of the participant learning that is expected as a result of attending this session.
 The last 3 objectives for each content area relate to goal setting behavior.
- Education Codes
 - Education codes for PCC documentation are listed for each learning objective. The last 3 codes for
 each content area document goal setting behavior.
- Materials
 - This includes suggested teaching materials for each session. Visuals are provided and may be photocopied. Additional materials are suggested. Instructors may revise or add materials. For example, medicine handouts can be revised to reflect your local formulary. Local resource lists need to be added. Local instructional staff need to review material for accuracy and cultural appropriateness and adapt and update it as needed. For example, information in the curriculum sessions is more current than information in some of the Indian Health Service booklets provided. Instructors also need to assess the reading level of participants and use materials appropriate for them. See Resource Directory and Visuals in the Appendix for information on ordering teaching materials.
- · Method of Presentation
 - This describes a suggested teaching approach for the session. (See Teaching Tips, p. XIII.)
- Content Outline
 - This includes the general concepts and details for each learning objective as well as teaching tips. The individual needs of each learner will determine content provided. It is not expected, nor advised, that instructors teach the content exactly as outlined. For example, the insulin administration content is recommended for people who are starting, or are on, insulin. Local instructional staff needs to review, adapt and update content as needed. It is important to reach consensus on recommendations in the curriculum. For example, target blood sugar goals in the curriculum are for whole blood glucose. Local programs may choose to convert goals to plasma glucose or use different goals. Instructors also need to tailor words to those used in their community. For example; blood sugar vs. blood glucose or blood lipids vs. blood fats.
- Skills Checklist
 - These are statements of the participant skills that are expected to be acquired as a result of attending this session.
- Evaluation Plan
 - A suggested evaluation plan is included with each session. The educational process is not complete
 without the evaluation of the outcomes achieved. Some of the ways this can be done include:
 - · Comparison of pre- and post-program knowledge/skill/learning needs
 - Behavior change evaluation through rating how well participants achieve their personal goals
 - Comparison of pre- and post-program clinical outcomes, such as standards of care completion
- Documentation Plan
 - This outlines the documentation of education, goal setting and ongoing evaluation and reassessment
 that needs to be included in the participant's medical record.
 See Tabl If or information on PCC documentation using the education codes.

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- Diabetes and Real Life Activities
 - Application of knowledge is often more difficult to learn and evaluate than the knowledge itself.
 These discussion activities, included at the end of each session, may be used with groups or individuals for further problem-solving and goal setting.

Tab IV: Supplemental Teaching Sessions

This section is provided for programs to add teaching sessions (outlines) developed by the Indian Health Service in the future, developed by other sources and/or developed locally.

Tab V: Appendix

This section includes additional information to assist instructors with the use of this curriculum, including:

- Resource Directory
 - This includes a listing of resources for audiovisual and written materials, health professional and consumer organizations, publications and Internet sites.
- Supplemental Readings
 - This is a bibliography recommended by diabetes experts to enhance instructors' knowledge and skills and provide further information on curriculum content.
- Visuals: Listing, Order Form and Sources
 - This includes a list of the Visuals Provided and Additional Materials described in the "Materials Needed" section of each session. Information on ordering Indian Health Service materials and sources for additional materials are included.

Delivery Options:

This curriculum may be used to provide diabetes education in a variety of ways, including:

- several weekly classes
- one or 2-day classes
- combination of class and one-on-one sessions
- one-on-one sessions
- integrating learning into an existing activity, such as a support group

Instructors need to review the entire curriculum and how it fits together. They need not present the sessions in the same order in which they appear in this curriculum manual; the order will vary based on the assessed needs of the learners. For example, instructors may need to introduce the concept of Stages of Change in Session 3 before learners identify changes they can make in Sessions 1 and 2. Recommended prerequisites are listed for some sessions.

The length of time needed to teach each session will also vary. The literature supports that a minimum of 6 hours of education are generally needed to meet self-management needs (Brown, 1992).

Instructors need to be prepared for teaching/facilitating sessions. This includes becoming familiar with:

- curriculum
- teaching materials
- icebreakers

- questions for facilitated discussion
- · audiovisual equipment and materials

Session Structure:

Group classes may be structured in a variety of ways. Instructors may consider the following suggestions:

Before the Session

- · plan to hold classes away from clinic
- arrange chairs in a circle to encourage discussions and sharing of stories
- provide flipchart or whiteboard to list participant responses, questions, concepts, etc.
- provide participants with notebooks to hold class materials
- provide note paper with session title and the key concepts for that session

During the Session

- take attendance
- have visuals for each session and past sessions available
- provide healthy snacks and/or cooking demonstration
- include a brief stretch/physical activity

After the Session

- have participants evaluate each class or session
- include instructors' contact information for participants
- · offer one-on-one make-up sessions whenever possible
- follow-up with "no shows"

Teaching Tips:

It is important for instructors to be familiar with community culture. The curriculum is written for the instructors. Language appropriate for the community needs to be used to teach the content. The content for each session is written in the third person. Some communities are not comfortable with the use of second person (i.e. "you") "your") in education dialogue. Instead, they prefer the use of third person (i.e. "one") "a person" a woman"). Instructors need to use the appropriate words for their community. See discussion of word choice in Content Outline (Introduction, p. X).

Encourage participants to have a family member or significant other attend sessions with them.

Effective education is more than the transmittal of information. Instructors are encouraged to use interactive teaching strategies rather than presenting information only through lectures and audiovisuals. It is okay if the instructor is not talking. They need to encourage the participants to talk to each other, share personal experiences and stories, try out new ideas and skills and enjoy themselves. Instructors also need to provide learners the chance to express feelings and emotions regarding the session content.

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At the beginning of a session, instructors need to create an accepting and relaxed environment. Allow time for participants to get to know and interact with each other. One way to do this is through "icebreaker" activities. Some icebreaker activities are:

- Ask participants to partner with someone and spend a few minutes learning about each other. Then ask them to introduce their partner to the group.
- Ask participants to think about 2 words to describe themselves that begin with the same letter as their first name. Ask each of them to share those words with the group. This activity can also be done with a partner.

See the Resource Directory in the Appendix for more icebreaker ideas.

One effective teaching approach is facilitated group discussion. Ask participants what questions or topics they would like to talk about during the session and then list responses. Build the session content based on the participants' areas of interest. Keep track of topics discussed. Since the instructor is familiar with the content and learning objectives in the curriculum, he or she can ensure that the comprehensive curriculum is presented through the questions and topics participants have identified.

Encourage participants to try new behaviors between sessions and see what the results are. This gives them valuable life experiences and generates new questions and topics for further discussion at the next session.

Because participants will have a variety of preferred learning styles (identified during the individual educational needs assessment), it is helpful for instructors to provide a variety of learning activities and use a variety of teaching techniques. Some techniques and activities instructors may use to assist participants with learning include:

- brainstorming
- case studies
- community people sharing experiences (testimonials) invite local experts. tribal leaders and healers to share traditional practices
- computers/interactive training
- demonstration
- discussion (facilitated)
- door prizes and incentive gifts
- games
- guest speaker

- homework/self-study
- out-of-class activity using a community event
- printed/audiovisual material
- role-playing
- self-assessment
- skills training
- storytelling
- talking circle
- treasure hunt
- values clarification exercises

Refer to the Instructor's Notes column in the Content Outline of each session for specific examples of these teaching techniques and activities

Teamwork:

All instructors are encouraged to attend all of the group sessions whenever possible and be available to answer questions. This helps instructors:



- build their relationship with the learner
- be familiar with participants' achievement of behavioral goals and learning objectives
- · be familiar with participants' follow-up needs

Instructors need to assure that the curriculum content is offered consistently. They are encouraged to attend classes when a guest speaker or other resource person is providing instruction.

It is important for instructors to communicate with each other about questions and issues that arise during instruction so that they can meet the participants' learning needs.

Participants with Special Needs:

Special needs of participants are identified during the individual educational needs assessment. These needs may include vision or hearing impairment, need for an interpreter, low literacy skills or a physical or psychological condition that affects the learning process. The instructor needs to accommodate special learning needs/limitations during education sessions. See the <u>Resource Directory</u> for further information on low literacy and visual impairment.

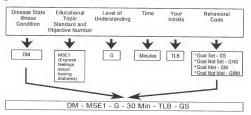




Learning Objectives and Education Codes



This section includes all learning objectives and education codes used in this curriculum. Instructors who use the PCC Ambulatory Encounter Record need to document all diabetes education in the Patient Education Section of the PCC using the Patient and Family Education (PFE) Protocols and Codes for Diabetes. The suggested format for documenting diabetes education is as follows:



For more more information on the PFE Protocols and Codes go to the IHS website www.ihs.gov, click on Nationwide Programs and Initiatives, click on Patient Education Protocols and Codes, click on Diabetes Codes.

List 2 or more diabetes self-care actions necessary to reach target blood sugar goals.

Session 1

DM-DP10

| DM-DI | what is Diabetes: |
|----------|--|
| Outcome: | The individual/family will have a basic understanding of the definition, pathophysiology and treatment of type 2 diabetes. |
| DM-DP1 | Provide a simple definition for diabetes in their own words. |
| DM-DP2 | Discuss the differences between type 1 and type 2 diabetes. |
| DM-DP3 | Explain how the body normally uses food. |
| DM-DP4 | List 2 or more risk factors for developing diabetes. |
| DM-DP5 | Describe the impact of insulin resistance in diabetes. |
| DM-DP6 | List 2 or more signs or symptoms of high blood sugar. |
| DM-DP7 | State the range for normal fasting blood sugar. |
| DM-DP8 | State a normal blood sugar range 1-2 hours after a meal. |
| DM-DP9 | Explain that high blood sugar can cause damage to the nerves and blood vessels in the eyes, |

What is Diabetee?

heart, kidneys and feet.

DM-DPGS State or write one change to make for diabetes self-care.

DMC-DPGNS Behavior goal not set (follow-up).

DM-DPGM Behavior goal met (follow-up).

DM-DPGNM Behavior goal unmet (follow-up).

Session 2

DM-MSE Diabetes and Mind, Spirit and Emotion

Outcome: The individual/family will understand the emotional impact of diabetes on their

personal lives.

DM-MSE1 Express feelings about having diabetes.

DM-MSE2 Discuss one or more ways diabetes has affected his/her life and/or the lives of their family

members and significant others.

DM-MSE3 Identify their support person(s).

DM-MSE4 Share past experiences in dealing with health or other kinds of problems.

DM-MSE5 Explain the body's response to stress.

DM-MSE6 Discuss ways to handle stress.

DM-MSEGS State or write one way to handle a stressful situation.

DMC-MSEGNS Behavior goal not set (follow-up).

DM-MSEGM Behavior goal met (follow-up).

DM-MSEGNM Behavior goal unmet (follow-up).

Session 3

DM-BG Making Healthy Changes

Outcome: The individual/family will have a basic knowledge of the process of behavior change

and goal setting.

DM-BG1 State in simple terms what a goal is.

DM-BG2 Discuss personal habits.

DM-BG3 Identify desirable behavior changes.

DM-BG4 Describe the process for making personal change.

DM-BGGS State or write a plan to change one or more behaviors.

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Learning Objectives and Education Codes Balancing Your Life and Diabetes



DMC-BGGNS Behavior goal not set (follow-up).

DM-BGGM Behavior goal met (follow-up).

DM-BGGNM Behavior goal unmet (follow-up).

Session 4

DM-N Healthy Eating

Outcome: The individual/family will understand the basics of healthy eating.

Section 1: Introduction to Healthy Eating

DM-N1 Describe the effect of food on diabetes.

DM-N2 State that healthy food choices are good for the person with diabetes and their whole family.

DM-N3 Describe how timing and consistency of food can help people with diabetes reach their target

blood sugar goals.

DM-N4 Describe the effect of portion sizes on blood sugar.

DM-N5 State that eating less sugar and fat can help lower blood sugar.

DM-N6 State how keeping a record of food eaten can help people with diabetes reach their target

blood sugar goals.

DM-NGS State or write a personal plan for making healthy food choices.

DMC-NGNS Behavior goal not set (follow-up).

DM-NGM Behavior goal met (follow-up).

DM-NGNM Behavior goal unmet (follow-up).

Section 2: Basics of Healthy Eating

DM-N7 State 2 or more benefits of healthy food choices for the person with diabetes.

DM-N8 Record a day's meal onto a food record.

DM-N9 Discuss the basic food groups.

DM-N10 Identify the food groups high in carbohydrates and recognize their effect on blood sugar.

DM-N11 State that weight loss can help people with diabetes reach their target blood sugar goals.

DM-N12 Discuss how to find reliable resources for nutrition facts and answers to questions.

DM-NGS State or write a personal plan for making healthy food choices.

DM-NGNS Behavior goal not set (follow-up).



DM-NGNM Behavior goal unmet (follow-up).

Section 3: Heart Healthy Eating

DM-N13 State that heart healthy food choices are good for the person with diabetes and their whole

family.

DM-N14 Identify foods that increase the risk for heart disease.

DM-N15 Identify foods that decrease the risk for heart disease.

DM-N16 Identify 2 or more ways to choose foods to lower the risk for heart disease.

DM-NGS State or write a personal plan for making healthy food choices.

DM-NGNS Behavior goal not set (follow-up).

DM-NGM Behavior goal met (follow-up).

DM-NGNM Behavior goal unmet (follow-up).

Session 5

DM-EX Moving to Stay Healthy

Outcome: The individual/family will understand the relationship of physical activity in achieving

and maintaining blood sugar control by making a personal physical activity plan.

DM-EX1 List 2 or more benefits of regular physical activity.

DM-EX2 State effects of physical activity on blood sugar.

DM-EX3 Discuss kinds of physical activity.

 $DM\text{-}EX4 \qquad \qquad \text{Discuss time and frequency of physical activity.}$

DM-EX5 Discuss simple ways to measure intensity of physical activity.

DM-EX6 Discuss medical clearance issues for physical activity.

DM-EX7 List one or more ways to stay safe during physical activity.

DM-EXGS State or write a personal plan for physical activity.

 $\label{eq:DM-EXGNS} DM\text{-}EXGNS \qquad \text{Behavior goal not set (follow-up)}.$

DM-EXGM Behavior goal met (follow-up).

DM-EXGNM Behavior goal unmet (follow-up).



Session 6

DM-M Diabetes Medicine—Overview and Diabetes Pills

DM-IN Diabetes Medicine—Insulin

Outcome: The individual/family will understand their medicine regimen.

Section 1: Overview

DM-M1 Discuss the role of diabetes medicines in the overall diabetes treatment plan.

DM-M2 State 2 or more reasons for adding or changing diabetes medicines.

DM-M3 State the importance of checking blood sugar more often when medicines are changed.

DM-M4 State the importance of taking medicines as prescribed.

DM-M5 State 2 or more guidelines for when to contact a health care provider for medicine.

DM-M6 Discuss the role of alternative treatments for diabetes and how they affect blood sugar (including

herbal, traditional healing methods and over-the-counter medicines).

DM-MGS State or write a personal plan for taking diabetes medicine.

DM-MGNS Behavior goal not set (follow-up).

DM-MGM Behavior goal met (follow-up).

DM-MGNM Behavior goal unmet (follow-up).

Section 2: Diabetes Pills

DM-M7 State the name of their diabetes pills, how much to take, when to take, how they work and

possible side effects.

DM-MGS State or write a personal plan for taking diabetes medicine.

DM-MGNS Behavior goal not set (follow-up).

DM-MGM Behavior goal met (follow-up).

DM-MGNM Behavior goal unmet (follow-up).

Section 3: Insulin

DM-IN1 Discuss how insulin works to control blood sugar in people with type 2 diabetes.

DM-IN2 Describe the types of insulin they use, the names, how they work, how much to take and when

to take them

DM-IN3 Identify insulin injection sites.



DM-IN4 Demonstrate proper technique for withdrawing and injecting insulin.

DM-IN5 Discuss the proper storage of insulin.

DM-IN6 Discuss the proper disposal of insulin syringes and other sharps.

DM-IN7 Discuss the major side effect of taking insulin.

DM-INGS State or write a personal plan for using insulin.

DM-INGNS Behavior goal not set (follow-up).

DM-INGM Behavior goal met (follow-up).

DM-INGNM Behavior goal unmet (follow-up).

Session 7

DM-BGM Home Blood Sugar Monitoring

Outcome: The individual/family will understand the importance of blood sugar monitoring, know

how to use the meter and make a personal blood sugar monitoring plan.

DM-BGM1 Explain that people with diabetes use a meter to learn how much sugar is in the blood.

DM-BGM2 List benefits of checking blood sugar.

DM-BGM3 State target blood sugar ranges to decrease risk for complications.

DM-BGM4 Discuss personal blood sugar goals.

DM-RGM5 State when to check blood sugar.

DM-BGM6 Discuss proper technique for checking blood sugar.

DM-BGM7 Demonstrate how to record results correctly.

DM-BGM8 Discuss benefits of bringing meter and logbooks to clinic visits.

DM-BGM9 State proper disposal of sharps.

DM-BGM10 State how to get supplies to check blood sugar.

DM-BGMGS State or write a plan to check blood sugar.

DM-BGMGNS Behavior goal not set (follow-up).

DM-BGMGM Behavior goal met (follow-up).

Learning Objectives and Education Codes

Balancing Your Life and Diabetes



DM-BGMGNM Behavior goal unmet (follow-up).

Session 8

DM-ABC Knowing Your Numbers-ABC

Outcome: The individual/family will be able to identify target goals for A1c, blood pressure and

blood fat levels.

DM-ABC1 Verbalize one reason for measuring A1c.

DM-ABC2 State the target A1c goal for blood sugar control.

DM-ABC3 Identify current A1c.

DM-ABC4 State 2 or more ways to reach or maintain A1c goal.

DM-ABC5 Verbalize one reason for measuring blood pressure.

DM-ABC6 State the target goal for blood pressure control.

DM-ABC7 Identify current blood pressure.

DM-ABC8 State 2 or more ways to reach or maintain target blood pressure goal.

DM-ABC9 Verbalize one reason for measuring blood fats.

DM-ABC10 State the target goals for blood fats.

DM-ABC11 Identify at least one current blood fat level.

DM-ARC12 List 2 or more ways to reach or maintain target blood fat goals.

DM-ABC13 State where to get help to improve ABC numbers.

DM-ABCGS State or write a plan to reach or maintain at least one of the ABC numbers.

DM-ABCGNS Behavior goal not set (follow-up).

DM-ABCGM Behavior goal met (follow-up).

DM-ABCGNM Behavior goal unmet (follow-up).

Session 9

DM-AC Balancing Your Blood Sugar Outcome:

The individual/family will understand acute complications and self-care actions to take to prevent or treat acute complications.

Section 1: Low Blood Sugar

DM-AC1 Define low blood sugar.

Discuss 2 or more causes of low blood sugar. DM-AC2

List 2 or more symptoms of low blood sugar. DM-AC3

State 2 or more actions to take when feeling symptoms of low blood sugar. DM-AC4

State 2 or more actions to prevent low blood sugar. DM-AC5

State or write a plan to use for low blood sugar, high blood sugar or sick day management. DM-ACGS

DM-ACGNS Behavior goal not set (follow-up).

DM-ACGM Behavior goal met (follow-up).

DM-ACGNM Behavior goal unmet (follow-up).

High Blood Sugar Section 2:

DM-AC6 Define high blood sugar.

DM-AC7 State 2 or more causes of high blood sugar.

DM-AC8 List 2 or more symptoms of high blood sugar.

DM-AC9 Discuss 2 or more actions to take when blood sugar is high.

State 2 or more actions to prevent high blood sugar. DM-AC10

DM-ACGS State or write a plan to use for low blood sugar, high blood sugar or sick day management.

DM-ACGNS Behavior goal not set (follow-up).

Behavior goal met (follow-up). DM-ACGM

DM-ACGNM Behavior goal unmet (follow-up).

Section 3: Sick Day Management

DM-AC11 Explain how blood sugar is affected during illness.

XXII

Learning Objectives and Education Codes

Balancing Your Life and Diabetes

DM-AC12 State 2 or more things to do to manage blood sugar when sick.

DM-AC13 Identify 2 or more food and drink choices to use when sick.

DM-ACGS State or write a plan to use for low blood sugar, high blood sugar or sick day management.

DM-ACGNS Behavior goal not set (follow-up).

DM-ACGM Behavior goal met (follow-up).

DM-ACGNM Behavior goal unmet (follow-up).

Session 10

DM-CC Staying Healthy With Diabetes

Outcome: The individual/family will understand the prevention and treatment of long-term

complications of diabetes.

Section 1: Overview

DM-CC1 State that controlling blood sugar lowers the chance of getting diabetes

complications.

DM-CC2 Identify 2 or more factors that increase the risk of complications.

DM-CC3 State 2 or more long-term complications of diabetes.

DM-CCGS State or write at least one behavior change that will help lower their risk for diabetes

complications.

DM-CCGNS Behavior goal not set (follow-up).

DM-CCGM Behavior goal met (follow-up).

DM-CCGNM Behavior goal unmet (follow-up).

Section 2: Complications

Retinopathy

DM-CC4 Define retinopathy in their own words.

DM-CC5 List 2 or more ways to prevent or delay eve disease.

DM-CC6 Discuss how eve disease is treated.



DM-CC7 Define heart disease in their own words.

DM-CC8 List 2 or more ways to prevent or delay heart disease.

DM-CC9 Discuss how heart disease is treated.

Nephropathy

DM-CC10 Define nephropathy in their own words.

DM-CC11 List 2 or more ways to prevent or delay kidney disease.

DM-CC12 Discuss how kidney disease is treated.

Neuropathy

DM-CC13 Define neuropathy in their own words.

DM-CC14 List 2 or more ways to prevent or delay nerve damage.

DM-CC15 Discuss how nerve damage is treated (including pain management).

Sexual Health

DM-CC16 Discuss in simple terms how diabetes and high blood sugars may impact intimacy/sexuality.

DM-CC17 List 2 or more ways to prevent or delay sexual health problems.

DM-CC18 Discuss how sexual health problems are treated.

DM-CC19 Discuss ways to talk about sexual concerns with significant others and members of the health

care team.

Periodontal

DM-CC20 Define periodontal disease in their own words.

DM-CC21 List 2 or more ways to prevent or delay gum/teeth problems.

DM-CC22 Discuss how periodontal disease is treated.

DM-CCGS State or write at least one behavior change that will help lower their risk for diabetes

complications.

DM-CCGNS Behavior goal not set (follow-up).

Learning Objectives and Education Codes Balancing Your Life and Diabetes

DM-CCGM Behavior goal met (follow-up).

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Section 3: Summary

DM-CCGNM

DM-CC23 Describe the need for all people with diabetes to get yearly tests, exams and immunizations.

DM-CC24 Identify their risk factors for diabetes complications.

Behavior goal unmet (follow-up).

DM-CCGS State or write at least one behavior change that will help lower their risk for diabetes

complications.

DM-CCGNS Behavior goal not set (follow-up).

DM-CCGM Behavior goal met (follow-up).

DM-CCGNM Behavior goal unmet (follow-up).

Session 11

DM-FTC Taking Care of Your Feet

Outcome: The individual/family will understand the importance of foot care for people with

diabetes.

DM-FTC1 State one or more reasons to check feet every day.

DM-FTC2 Identify 2 or more risk factors for foot problems.

DM-FTC3 List 2 or more daily self-care actions to prevent foot problems.

DM-FTC4 Describe how to cut toenails correctly.

DM-FTC5 Describe 2 or more things to look for when choosing proper footwear.

DM-FTC6 State 2 or more signs and symptoms of foot and skin infections.

DM-FTC7 State when to contact the diabetes team about foot problems and infections.

DM-FTC8 State the reason for routine foot exams at each clinic visit and yearly foot screening.

DM-FTCGS Demonstrate a personal foot exam and state a personal foot care plan.

DM-FC-GNS Behavior goal not set (follow-up).



Behavior goal met (follow-up).

DM-FTCGNM Behavior goal unmet (follow-up).

Session 12

DM-PPC Planning for Pregnancy

Outcome: The woman with diabetes and her significant other/family will understand the need for

blood sugar control prior to pregnancy.

DM-PPC1 Describe the need to reach target blood sugar goal before becoming

pregnant.

DM-PPC2 Identify 2 or more ways to reach target blood sugar goal before becoming

pregnant.

DM-PPC3 State that insulin injections may be needed to reach target blood sugar goal

before becoming pregnant.

DM-PPC4 State 2 potential problems for the baby if pregnancy occurs while the mother's

blood sugar is high.

DM-PPC5 State 2 potential problems for the mother during pregnancy.

DM-PPC6 State the need to use birth control until ready to become pregnant.

DM-PPC-7 State the need to seek early prenatal care.

DM-PPC-8 State the need to avoid tobacco, alcohol and drugs before and during

pregnancy.

DM-PPC-9 Identify community resources to support families before, during and after

pregnancy.

DM-PPCGS State or write a personal plan to prepare for pregnancy.

DM-PPCGNS Behavior goal not set (follow-up).

DM-PPCGM Behavior goal met (follow-up).

DM-PPCGNM Behavior goal unmet (follow-up).



SESSION

What is Diabetes?

DM-DP Disease Process: What is Diabetes?

STATEMENT OF PURPOSE

This session provides information about the definition, pathophysiology and treatment of type 2 diabetes for American Indians/Alaska Natives (AI/AN).

PREREQUISITES

None

DM-DP1

DM-DP2

LEARNING OBJECTIVES

| DIVI-DI 2 | Discuss the differences between type 1 and type 2 diabetes. |
|-----------|--|
| DM-DP3 | Explain how the body normally uses food. |
| DM-DP4 | List 2 or more risk factors for developing diabetes. |
| DM-DP5 | Describe the impact of insulin resistance in diabetes. |
| DM-DP6 | List 2 or more signs or symptoms of high blood sugar. |
| DM-DP7 | State the range for normal fasting blood sugar, |
| DM-DP8 | State a normal blood sugar range 1-2 hours after a meal. |
| DM-DP9 | Explain that high blood sugar can cause damage to the nerves and blood vessels in |
| | the eyes, heart, kidneys and feet. |
| DM-DP10 | List 2 or more diabetes self-care actions necessary to reach target blood sugar goals. |
| DM-DPGS | State or write one change to make for diabetes self-care. |
| DM-DPGNS | Behavior goal not set (follow-up). |
| DM-DPGM | Behavior goal met (follow-up). |
| DM-DPGNM | Behavior goal unmet (follow-up). |
| | |

Provide a simple definition for diabetes in their own words.

Discuss the differences between time 1 and time 2 distant



CONTENT

Diabetes disease process

MATERIAL S NEEDED

Visuals Provided

- #1 Pancreas
- #2 Diabetes and American Indians
- #3 What is Diabetes?
- #4 Normal Sugar in the Blood
- #5 Too Much Sugar in the Blood
- #6 Normal Blood Sugar and Insulin Levels
- #7 Blood Sugar Ranges
- #8 Target Blood Sugar Goals
- #9 Changes I Can Make

Additional

Body apron

Disease process video

Glucose wands

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative icebreaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to provide a basic overview of diabetes.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate discussion. Have a variety of teaching tools available based on participants' learning needs. Be creative and encourage interaction. A videotape may also be shown to introduce content if available.

CONTENT OUTLINE

| Objective | Content | Educator's Notes |
|---|--|--|
| DP1. Provide a simple definition for diabetes in their own words. | Diabetes is too much sugar in the blood. | Ask, "Tell me in your own words— What is diabetes?" |

| Objective | Content | Educator's Notes |
|--|--|---|
| DP1. (continued) | Blood sugar comes from food. All people have sugar in their blood. The body uses this blood sugar for energy. The body cells use this blood sugar to do their work (energy). | Ask, "How would you explain diabetes to another person?" |
| | Some people cannot get the blood sugar into cells. The sugar stays in the blood. They get high blood sugar. | Visual #2: Diabetes and American Indians or Visual #3: What is Diabetes? |
| | Insulin is a hormone made by the pancreas. Insulin is needed to help keep the blood sugar level in a normal range. | Show pancreas on the <i>body apron</i> or Visual #1: <i>Pancreas</i> The pancreas is located behind the stomach. |
| DP2. Discuss the differences between type 1 and type 2 diabetes. | There are several types of diabetes. The 2 most common types are type 1 and type 2. | Visual #2: Diabetes and American Indians Ask, "What is the difference between type 1 and type 2 diabetes?" List responses. |
| | In type 1 diabetes, the pancreas makes little or no insulin. People with type 1 need to take insulin. Type 1 diabetes is rare in American Indian/Alaska Native people. | Old names for type 1 diabetes are insulin-dependent, juvenile-onset, unstable, brittle and type I diabetes. |
| | Type 2 diabetes is the most common type of diabetes in the world and in American Indian and Alaska Native (AI/AN) people. In type 2 diabetes, the pancreas | Old names for type 2 diabetes are maturity-onset, adult-onset, insulinresistant and type II diabetes. Clarify the differences. |

| Objective | Content | Educator's Notes |
|---|---|--|
| DP2. (continued) | the insulin does not work well (i.e., body cells may not allow insulin to do its work this is insulin resistance) the pancreas may not make enough insulin some people may not make enough insulin and their insulin does not work well | Physical activity and weight loss may help the insulin to work better and reduce insulin resistance. Emphasize that people with type 2 often take diabetes medicines. Introduce need for insulin at various stages of diabetes (i.e., stress, pregnancy, illness, high blood sugars, not responsive to oral meds, etc.) It is important to introduce now, to start reducing fears and misconceptions about insulin and its use. |
| | Type 2 diabetes can occur at any age. It is more commonly diagnosed after age 40 in the general population and much younger in Al/AN people. There are children with type 2 diabetes. | Over time, the body makes less insulin. Type 2 diabetes is increasing in all communities throughout the world. Type 2 diabetes may occur at younger ages in high-risk populations. See Objective DP-4 for risk factors for developing diabetes. The number of children with type 2 diabetes is increasing. |
| DP3. Explain how the body normally uses food. | People without diabetes: The blood sugar level of people who do not have diabetes stays within a normal range. | Visual #2: Diabetes and American Indians and Visual #7: Blood Sugar Ranges |
| | Blood sugars change throughout the day but stay in this range. Blood sugar goes up after eating. The body changes food into sugar. Body cells use blood sugar for energy. Blood sugars rise after eating food. | Another name for sugar is glucose. A person may hear health care providers call sugar glucose. |
| | Insulin is released from the pancreas as the blood sugar level goes up. | Visual #6: Normal Blood Sugars and Insulin Levels Explain the parts of the graph and |

| Objective | Content | Educator's Notes |
|---|--|---|
| DP3. (continued) | | what the graph is saying about blood sugar and insulin levels. |
| | Cells have receptor sites. Insulin attaches to the receptor sites and makes an opening to help sugar go into the cell. | Visual #4: Normal Sugar in the Blood and Visual #5: Too Much Sugar in the Blood |
| | People with type 2 diabetes: The body changes food into blood sugar. Body cells use blood sugar for energy. | Use visuals to explain concept of receptor sites, You may want to use an analogy to explain this, such as, "Insulin is the key that opens the door to the cell." |
| | | Visual #2: Diabetes and American Indians and Visual #5: Too Much Sugar in the Blood |
| | There is not enough insulin or the insulin does not work well to keep blood sugar in the normal range. Sugar cannot get into most body cells to be used for energy. Sugar stays in the blood and blood sugar levels rise too much and stay high. | Hyperglycemia is another name for high blood sugar. A person may hear health care providers call it that. You may want to use the glucose wands to show high blood sugar versus normal blood sugar. |
| DP4. List 2 or more risk factors for developing diabetes. | People are more likely to get diabetes if they: | Visual #2: Diabetes and American Indians |
| diacetes. | are heavy | A person does not catch diabetes or get it from eating sweets. |
| | are a woman with a waist size ≥ 35 inches or a man with a waist size ≥ 40 inches. are inactive are over the age of 30 | People who gain weight in the abdominal area (middle) of the body are more likely to get diabetes. Healthy food choices and physical activity help prevent this weight gain. |
| | have one or both parents with diabetes have family members with diabetes had diabetes when they were pregnant | Diabetes runs in families. If one parent has type 2 diabetes, the risk is great; if both parents have type 2 diabetes, the risk is greater. Lifestyle and environmental changes, such as changing from traditional diet |

| Objective | Content | Educator's Notes |
|---|--|---|
| DP4. (continued) | | and activity to a more "western" lifestyle, has led to more diabetes. |
| DP5. Describe the impact of insulin resistance in diabetes. | Insulin resistance is the main cause of high blood sugar in early diabetes. In early diabetes, the pancreas is still making insulin, but some of the receptor sites on the body cells are lost. Insulin cannot find the lost receptor sites to help carry the sugar into the cell. This causes sugar to move into the cell at a slower rate. Sugar stays in the blood because it has nowhere to go. This causes high blood sugar. | In many cases, insulin levels may be above normal during early diabetes. Refer to Visual #5: <i>Too Much Sugar in the Blood</i> or use the analogy of the key and door. |
| | Reaching a healthy weight, physical activity and some diabetes medicines will decrease insulin resistance. | Basics of healthy eating is covered in Session 4. Physical activity is covered in Session 5. Diabetes medicine is covered in Session 6. |
| DP6. List 2 or more signs or symptoms of high blood sugar. | High blood sugar can cause a person to have signs and symptoms. | Ask, "What symptoms did you have before you found out you had diabetes?" |
| | These signs and symptoms are: | Visual #2: Diabetes and American Indians |
| | • tiredness | <u>Tiredness</u> : Sugar is not getting into the cells to be used for energy, so the person is tired. |
| | increased thirst | Increased thirst: When a person urinates a lot, the body needs more water. This increases thirst. |
| | hunger weight loss | Hunger and weight loss: The sugar cannot get into the cells where it can be used for energy. Loss of sugar through the urine means loss of calories. |

| Objective | Content | Educator's Notes |
|---|--|---|
| DP6. (continued) | • blurred vision | Blurred vision: Sugar builds up in the lens of the eye, causing the lens to swell and change vision. Wait to have eyes tested for glasses for 6-8 weeks after blood sugar levels are at goal. Reassure people that these changes most likely will get better as their blood sugars improve. If a person has had diabetes a long time before diagnosis, blurred vision may be caused by retinopathy (eye disease). |
| | urinate more often | Urinate more often: The higher the sugar levels in the blood, the more sugar appears in the urine and the harder the kidneys have to work. This causes the body to make more urine to get rid of the extra sugar. |
| | sores that do not heal sore gums | Sores that do not heal and sore gums: High blood sugars impair the body's ability to fight infection. |
| | genital itching | Genital itching: High blood sugar can cause more yeast infections for both men and women. |
| DP7. State the range for normal fasting blood sugar. | Fasting blood sugar • without diabetes: 70-99 mg/dl | Visual #2: Diabetes and American Indians and Visual #7: Blood Sugar Ranges |
| | • pre-diabetes: 100-125 mg/dl | Ask, "What are normal blood sugar levels?" |
| | diabetes: 126 mg/dl or above | |
| DP8. State a normal blood sugar range 1-2 hours after a meal. | Blood sugar 1-2 hours after meals • without diabetes: 70-139 mg/dl • pre-diabetes: | Visual #7: Blood Sugar Ranges The A1c test is covered in Session 8. |

| Objective | Content | Educator's Notes |
|---|---|--|
| DP8. (continued) | • diabetes: 200 mg/dl or above | The word pre-diabetes is now used to help warn people that they are at risk for type 2 diabetes. Old names for pre-diabetes are: borderline diabetes, impaired glucose tolerance and impaired fasting glucose. This is when blood sugar levels are higher than normal, but not high enough to be diabetes. The Diabetes Prevention Program (DPP) Study, which included American Indian participants, proved that losing weight and being more active can help a person prevent or delay diabetes. |
| DP9. Explain that high blood sugar can cause damage to the nerves and blood vessels in the eyes, heart, kidneys and feet. | Diabetes is a serious life-long disease. It is not curable, but it is treatable. Having high blood sugar over many years can cause problems with eyes, kidneys, feet, gums and heart. The best way to avoid these problems is to keep blood sugar | Visual #2: Diabetes and American Indians Use the glucose wands to show how high blood sugars affect the blood vessels. Many studies, such as the DCCT and UKPDS, have shown that blood sugars. |
| DP10. List 2 or more diabetes self-care actions necessary to reach target blood sugar goals. | People with diabetes make decisions each day about their self-care. These decisions affect blood sugar levels. | levels kept within target range may prevent or delay the complications of diabetes. Visual #2: Diabetes and American Indians Stress the importance of the role the person with diabetes plays in their health care. They are the most important member of the diabetes |

| Objective | Content | Educator's Notes |
|-------------------|---|--|
| DP10. (continued) | The first step is to decide on blood sugar goals. Treatment, including self-care, is based on working toward this goal. | Keeping blood sugar levels near normal helps decrease symptoms and reduces the risks for acute and long- term complications of diabetes. |
| | People with type 2 diabetes are able to reach and maintain their blood sugar goals by balancing: • food choices • physical activity • medicines • emotions • stress | |
| | Target blood sugar goals are: 80-120 mg/dl before breakfast 80-140 mg/dl 2 hours after a meal 100-140 mg/dl at bedtime | Visual #8: Target Blood Sugar Goals. These goals are for whole blood glucose. Add 10-15% to convert thes to plasma glucose. Target ranges may be changed based on facility standards and the individual needs of the person with diabetes. |
| | The treatment of type 2 diabetes is usually done in stages. Some people start with a healthy meal plan and physical activity. | Stress that patients may stay in one stage for a while, but that they shoul not stay with a treatment plan that does not control their blood sugars. |
| | Others may need to include pills or insulin shots along with healthy eating and physical activity. Changes in the treatment used will depend on target blood sugar goals. | Remind patients that treatment failures are not personal failures. |
| | A healthy meal plan for blood sugar control includes: • eating at regular times throughout the day • eating smaller portions • eating less sugar foods and drinks • eating less fat foods | Refer to a dictitian for an individual assessment and nutrition education. Healthy eating is covered in Session 4. Discuss the importance of eating or more times a day to help keep the blood sugar steady. |

| Objective | Content | Educator's Notes |
|---|---|--|
| DP10. (continued) | Physical activity for blood sugar control includes: • walking for 30 minutes for 5 days or more a week • starting slowly and working up to 30 minutes | Discuss the different kinds of physical activity that people can do. Note: Caution people to check with their health care provider before starting to exercise. Physical activity is covered in Session 5. |
| | Medicines for blood sugar control include diabetes pills and/ or insulin. | Medicines are covered in Session 6. Stress eating healthy and being physically active help medicines work better. |
| DPGS. State or write one change to make for diabetes self-care. | Caring for diabetes is not easy. It may mean changing life-long habits. Remember, habits may take a long time to change, but it can be done. | Ask, "How is caring for diabetes different?" Show empathy. Stress that changing habits is hard but possible. People can work with their team to learn ways to make changes. |
| | Making changes is easier when plans are broken down into small easy-to-do steps. | Visual #9: Changes I Can Make Ask, "What are some choices you made or can make that affect your diabetes?" |
| | | See Session #3: Making Healthy Changes. |

SKILLS CHECKLIST

Each participant will be able to choose at least one change to make for diabetes self-care.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by identifying at least one change to make for diabetes self-care. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using *IHS Patient and Family Protocols and Education Codes*.





What is Diabetes?



Your brother stops by to visit you. He looks like he has lost some weight since you saw him last a few months ago. He tells you he is tired and thirsty all the time. He is planning to go to the clinic this week for a check up. He tells you he is afraid it is diabetes, but he does not know why he could have diabetes since he is thin and active. He asks you how they can tell if it is diabetes and what they will do for him.

| would you answer your brother's question of why he could have tes since he is thin and active? |
|---|
| |
| care might your brother receive when he goes to the clinic for up? If he has diabetes, what are his treatment choices? |
| are some ways you would help your brother with his fear aboutes? |



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What is Diabetes?



Your brother stops by to visit you. He looks like he has lost some weight since you saw him last a few months ago. He tells you he is tired and thirsty all the time. He is planning to go to the clinic this week for a check up. He tells you he is afraid it is diabetes, but he does not know why he could have diabetes since he is thin and active. He asks you how they can tell if it is diabetes and what they will do for him.

- What can you tell your brother about some of the symptoms he is having?
 - High blood sugar can cause a person to have symptoms such as tiredness, increased thirst, hunger, weight loss, blurred vision, urinating more often, sores that do not heal, sore gums and/or genital itching. Some people have no symptoms when they have diabetes. It is important to go to the clinic to find out why he is feeling this way. If he has diabetes, it is important to get treatment for high blood sugar right away.
- How would you answer your brother's question of why he could have diabetes since he is thin and active?

People are more likely to have diabetes if they are heavy and/or inactive. But there are other things that make someone more likely to have diabetes, such as being over the age of 30, having one or both parents with diabetes, having family members with diabetes and having diabetes when pregnant. Some people who have none of these risk factors also develop diabetes.

3. What care might your brother receive when he goes to the clinic for a check-up? If he has diabetes, what are his treatment choices?

The clinic will do an examination and lab tests. Diabetes is diagnosed with a blood test. Blood sugar ranges are:

Fasting blood sugar:

- · without diabetes: 70-99 mg/dl
- · pre-diabetes: 100-125 mg/dl
- · diabetes: 126 mg/dl or above
- Blood sugar 1-2 hours after meals:
 - · without diabetes: 70-139 mg/dl
 - pre-diabetes: 140-199 mg/dl
 - pre-diabetes. 140-133 mg/di
 - · diabetes: 200 mg/dl or above

The treatment of type 2 diabetes is usually done in stages. Some people start with a healthy meal plan and physical activity. Others may need to include diabetes pills or insulin along with healthy eating and physical activity. Changes in treatment will depend on target blood sugar goals.

4. What are some ways you would help your brother with his fear about diabetes?

Most people with diabetes have feelings like fear, sadness, or anger at one time or another. This is normal. People may have different feelings from day to day and these feelings may change over time. Sometimes it helps to talk about feelings with others. If people find it hard to say their feelings, writing them in a diary can help. They can tear up the written feelings if they do not want anyone to read them. Learning what to do to stay healthy with diabetes helps some people be less fearful.



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SESSION

2

Diabetes and Mind, Spirit and Emotion

DM-MSE
Diabetes and Mind, Spirit,
and Emotion

STATEMENT OF PURPOSE

This session is intended to encourage people with diabetes, their family members and their significant others to recognize and express feelings about:

- · having diabetes
- · how diabetes affects their lives

It also provides information about:

- stress
- · how stress affects diabetes control
- how people can recognize stressful situations in their lives
- how to develop strategies for coping with stressful situations

PREREQUISITES

None

LEARNING OBJECTIVES

DM-MSE1 Express feelings about having diabetes.

DM-MSE2 Discuss one or more ways diabetes has affected his/her life and/or the lives of their family members and significant others.

DM-MSE3 Identify their support person(s).



| DM-MSE4 | Share past experiences in dealing with health or other kinds of problems. |
|-----------|---|
| DM-MSE5 | Explain the body's response to stress. |
| DM-MSE6 | Discuss ways to handle stress. |
| DM-MSEGS | State or write one way to handle a stressful situation. |
| DM-MSGNS | Behavior goal not set (follow-up). |
| DM-MSEGM | Behavior goal met (follow-up). |
| DM-MSEGNM | Behavior goal unmet (follow-up). |

CONTENT

Psychosocial adjustment, family involvement, social support

MATERIALS NEEDED

Visuals Provided

- #1 Diabetes and Your Feelings
- #2 Feelings Faces
- #3 When "The Blues" Won't Go Away
- #4 Positive Ways to Handle Stress
- #5 Relaxation Techniques
- #6 Tips From Real Life
- #7 Changes I Can Make

Additional

Well-being visual based on local cultural beliefs

Feelings cards

Psychosocial aspects of diabetes video

Resource list, including information about local diabetes support groups, stress management groups and other local resources

Information about other materials, including books on coping with

diabetes, feelings and stress

Other community-appropriate videotapes or audiotapes to initiate

discussion of these issues

Moving Past Grief (Health for Native Life, Volume 4, p. 42)

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative ice breaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to provide a time for participants to express their feelings related to diabetes and learn ways to manage stress. Participants will have the opportunity to practice relaxation techniques.

activities may be practiced during the session.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate discussion. Have a variety of teaching tools available based on participants' learning needs. A videotape or audiotape may also be used to introduce material if available. It is important to acknowledge and validate any feelings expressed by participants. If family members or significant others are present, you can draw them into the discussion by asking about their feelings and concerns. Use real life situations for discussion. Relaxation

Some people may not want to talk. One way to accommodate them is to ask all participants to write down their feelings on a card and give them to the instructor to read. This way people are not identified with their feelings and thoughts.

Begin the session with an introduction to American Indian and Alaska Native concepts of health and wellness appropriate to the participants' communities. You may wish to use a Well-being visual to introduce the topic if available for your community. Discuss the importance of caring for mental, spiritual and emotional needs, as well as physical needs, to keep the total self in balance or harmony.

CONTENT OUTLINE

| Objective | Content | Educator's Notes |
|---|--|--|
| MSE1. Express feelings about having diabetes. | Everyone has feelings or thoughts about having diabetes. | Visual #1: Diabetes and Your Feelings may be used for discussion. |
| | People may have different feelings from day to day and the feelings may change over time. | Ask, "What were your thoughts or feelings when you were first told you had diabetes? What are your thoughts or feelings now about having diabetes?" Have participants say or write their answers or circle their feelings on Visual #2: Feelings Faces. |
| | A person may have many feelings when they find out they have diabetes. These feelings can include: Shock: "Not me." "The test must be wrong." Fear: "What does this mean for my life?" Anger: "Why me?" "I don't deserve this." | Ask, "How have you dealt with your feelings? What ways of handling your feelings have you found to be helpful?" If everyone in the group is newly diagnosed, ask, "How have you dealt with feelings in the past?" For people who find it hard to say their feelings, writing thoughts down can help. |

| Objective | Content | Educator's Notes |
|--|---|--|
| MSE1. (continued) | Sadness: "I feel so alone." "No one understands." Guilt: "If I hadn't eaten so much, I wouldn't have diabetes." Denial: "I just have a touch of diabetes." Acceptance: "I can be well." "I have diabetes—it is part of me." Most people with diabetes have all or some of these feelings at one time or another. | Keeping a diary of feelings may be helpful. Negative feelings that last a long time may make it hard for people to take care of their diabets. It is important to ask for help with feelings when this happens. |
| | Some people feel depressed. People who feel very sad or depressed need to tell a friend, family member, counselor or health care provider and get help right away. The way a person feels about having diabetes affects how they care for their diabetes. Family members also have feelings about diabetes. | Feeling "down" now and then is normal. Feeling sad and hopeless for two weeks or more may be a sign of serious depression. Untreated depression can be life threatening. Having diabetes doubles a person's chances of also having depression. Visual #3: When "The Blues" Won't Go Away |
| MSE2. Discuss one or more ways diabetes has affected his/her life and/or the lives of family members and significant others. | Some of the ways diabetes may affect a person's life include having to: • follow a regular schedule • change eating habits • be more active • take medicine every day • check blood sugar • go to the clinic more often • change work, family and fun activities Diabetes may also affect relationships with people. | Ask, "How has diabetes affected your life or the lives of your family members?" Assist participants to recognize the things that are difficult about living with diabetes. |

| Objective | Content | Educator's Notes |
|--|--|---|
| MSE3. Identify their support person(s). | Most people find that having a support person helps them live with diabetes. | Ask, "What have you found helpful in living with diabetes?" List responses. |
| | Support can come from family, friends, the health care team, spiritual advisors, medicine people or traditional healers, school staff, co-workers and/or others with diabetes. | Ask, "Who have you told that you have diabetes? Who do you think needs to know and why?" |
| | Family and friends may want to be supportive but not know how. | Ask, "Have you noticed any changes in how your family and friends treat you now that you have diabetes? How does this make you feel?" |
| | | The feelings family and friends have about a person having diabetes, such as guilt, grief and fatalism, may have an effect on their ability to give support. |
| | Family and friends need to learn about diabetes and what they can do to help. | Ask participants to brainstorm ways others can be supportive. Write thes on the board. (Examples are: get physical activity or eat healthy with you, notice positives rather than negatives, listen to your concerns, etc.) |
| | Some people find it helpful to join a diabetes support group, or to talk with a counselor, healer, spiritual advisor or another person with diabetes. Living with diabetes can be hard, | Ask, "Has anyone been in a support group? Did you find it helpful?" Provide information about local support groups and behavioral healt spiritual and other resources. Distribute local <i>Resource List</i> . Ask each participant to identify their |
| | but help and support are available. | support person(s). |
| MSE4. Share past experiences in dealing with health or other kinds of problems. | Past experiences give us valuable lessons. Some experiences are positive and some are negative. People can learn from all of their experiences. | Ask, "What kinds of family/health challenges have you dealt with in the past? What did you do? How did others help you? How long did it take? How many times did you try to make changes before it worked?" |

| Objective | Content | Educator's Notes |
|--|--|--|
| MSE5. Explain the body's response to stress. | Stress is the body's natural reaction to any demand (physical or psychological) put on it. | Ask, "What is stress?" List participants' definitions of stress. |
| | How stressful an event is depends on how a person looks at the event and whether he/she thinks it | Stress is defined by how a person sees a situation, not necessarily the real situation. |
| | is good or bad. Other things going on in a person's life can change how that person sees stress. | Learning they have diabetes is stressful for many people. |
| | Something may feel very stressful one day and not stressful another day. | |
| | Change of any kind, whether it is positive or negative, is stressful. | |
| | Major life stressors, such as illness or death in the family, are stressful for everyone. Some major life events, such as graduating from school, marriage, the birth of a child, a new job or retirement, are positive and challenging situations that can cause a stress response. | Have participants identify the main things that cause stress in their lives. You may have them divide these into things they have control over and things they do not have control over. |
| | Minor life stressors are events that happen in daily life, such as being in a traffic jam, arguing with a coworker or family member, tests, phone calls or doctor visits. Events such as holidays or vacations can be stressors. | Have participants list or name minor things that cause stress in their lives. You may have them divide these into things they have control over and things they do not have control over. |
| | The body reacts to stress in various ways: | Ask, "Have you experienced any of these body reactions to stress?" |
| | heart rate increases blood pressure increases breathing becomes rapid and shallow muscles get tense | The body gets ready for stress by sending out stress hormones (catecholamines, glucagons, cortisol and growth hormone). These hormones may affect feelings and |

| Objective | Content | Educator's Notes |
|--------------------------------------|--|---|
| MSE5. (continued) | sweating increases | behaviors. Ask, "What are your feeling when you are stressed?" |
| | blood sugar may rise Energy is needed to either fight off stress or run away from it— | Ask, "Have you noticed that your blood sugar is affected by stress?" |
| | the fight or flight response. If extra energy is not used to fight or run away, it can leave a person feeling tense and tired or cause a headache. | |
| | Stress makes control of diabetes more difficult. Not only can it cause the blood sugar to go high, it can also make it hard for a person to do the things they need to do to take care of their diabetes. | Ask, "Have you noticed a change in the way you handle your diabetes when you are stressed?" |
| | Some people find they feel less able to deal with stress when their blood sugar is high or low. Their energy for handling the things that cause stress is being used up on diabetes. | Ask, "Have you noticed any change in the way you handle stress when your blood sugar is high or low?" |
| | All people feel stress from time to time. Too much stress can lead to health problems and affect diabetes control. Limiting stressful events or handling them in a positive way helps a person stay healthy. | Ask, "What health problems are relate to stress?" List responses. |
| MSE6. Discuss ways to nandle stress. | Each person handles stress in a different way. | Ask, "What are ways you handle stress?" List responses. |
| | People usually handle stress in ways that are familiar to them. | Visual #4: Positive Ways to Handle Stress |

| Objective | Content | Educator's Notes |
|-------------------|--|---|
| MSE6. (continued) | Some of these ways work and some do not. Some ways leave people feeling tense, tired, angry or sick. Negative coping behaviors include: • overeating • smoking • drinking too much alcohol • working too hard • abusing drugs | Remind participants that there are many different ways to handle stress. |
| | Other ways of handling stress will help people feel better. Positive coping behaviors include: | Ask, "What helps you handle stress? What keeps you from handling stress well?" List responses. |
| | being more physically active | Physical activity helps protect the body from the harmful effects of stress. |
| | writing down feelings talking with trusted people, such as a medicine person or | Some people keep a diary to handle stress. |
| | spiritual healer saving time for oneself every day asking for support from others doing fewer things and doing them better | Discuss other ways to handle stress. |
| | keeping a sense of humor spending time on a hobby Sometimes it is healthy to avoid stressful situations until there has been time to think about how to handle the situation positively. | Laughter releases endorphins. Endorphins are substances the body makes to help people feel good and be more alert. |
| | If people want help with handling stress, or feel unable to cope, they can ask for professional help. | Distribute local resource list that includes medicine person, spiritual healer, mental health specialist, social worker, psychologist, psychiatrist and or nurse who is experienced in working with people with diabetes. Make referrals as needed. |

| Objective | Content | Educator's Notes |
|--|---|---|
| MSE6. (continued) | Relaxation techniques can help a person handle stress. | Visual #5: Relaxation Techniques Practice techniques with participants. |
| | Some relaxation techniques are: • prayer • meditation • yoga • deep breathing • visual imagery • muscle relaxation | |
| | Stress is something everyone experiences. Learning how to handle stress can help a person stay healthy. | Distribute Visual #6: Tips From Real Life |
| MSEGS. State or write one way to handle a stressful situation. | Making changes in health habits, such as using healthy ways to handle stressful situations, is easier when plans for change are broken down into small, easy-to-do steps. | Visual #7: Changes I Can Make Have participants state or write one way they can handle a stressful situation. See Session #3: Making Healthy Changes. |

SKILLS CHECKLIST

Each participant will be able to identify one way to handle a personally stressful situation.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives as evidenced by responses to questions and activities during the session. The ability to acknowledge thoughts or feelings about diabetes and to manage stress will be evaluated by expressing feelings and identifying one way to handle a personally stressful situation. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.



Your good friend has recently learned she has diabetes. She tells you she feels all alone dealing with the disease and does not quite know what to do next. She says her family members are not very supportive. She knows you have diabetes and asks you if you could give her some help and support.

| Besides y diabetes? | ou, who else could give your friend help and support with |
|------------------------|--|
| | |
| | |
| How can | your friend help her family members be more supportive? |
| | |
| | |
| | ld you ask for, or find, support for living with your diabet |



Your good friend has recently learned she has diabetes. She tells you she feels all alone dealing with the disease and does not quite know what to do next. She says her family members are not very supportive. She knows you have diabetes and asks you if you could give her some help and support.

- 1. How can a support person help someone with diabetes?
 - Most people find that having a support person helps them live with diabetes. Support people can help with physical activity (such as being a walking partner) or eating healthy (such as serving/choosing food on your meal plan). They can support behavior change efforts by noticing positives rather than negatives and/or listening to concerns.
- Besides you, who else could give your friend help and support with her diabetes?
 Support can come from family members, friends, the health care team, spiritual advisors, medicine people or traditional healers, school staff, coworkers and/or others with diabetes.
- 3. How can your friend help her family members be more supportive?
 Family members and friends may want to be supportive but not know how. The feelings family members and friends have about the person with diabetes may have an effect on their ability to give support (such as anger, guilt, grief, fatalism and past experiences). Listen to their concerns. Family members and friends need to learn about diabetes and what they can do to help—tell them clearly what they can specifically do to help.
- 4. How would you ask for, or find, support for living with your diabetes?
 Some people find it helpful to join a diabetes support group, or to talk with a counselor, healer, spiritual advisor or another person with diabetes. They can invite family members to go to the diabetes support group with them. Information about local support groups, behavioral health, spiritual and other resources can be obtained from resource lists.





You are working long hours right now to take care of some special projects. After work you are trying to spend time with your partner and children, but you are finding you do not have a lot of energy for anything else except work. Your mother is in the hospital right now for an unexpected surgery. Your uncle borrowed your car last week and had an accident—your uncle is okay, but your car is going to be in the repair shop for a few weeks. You are depending on other people for transportation. You are feeling overwhelmed and finding it hard to focus on the things you need to do to take care of your diabetes.

| What are some ways your body might react to stress you are having What are some ways stress might affect your diabetes? What would you do to handle this situation? | Are y | u experiencing stress? H | ow do you know? |
|---|-------|--------------------------|--------------------------------------|
| | What | are some ways your body | might react to stress you are having |
| What would you do to handle this situation? | What | are some ways stress mig | ght affect your diabetes? |
| | What | would you do to handle t | his situation? |





You are working long hours right now to take care of some special projects. After work you are trying to spend time with your partner and children, but you are infining you do not have a lot of energy for anything else except work. Your mother is in the hospital right now for an unexpected surgery. Your uncle borrowed your car last Week and had an accident—your uncle is okay, but your car is going to be in the repair shop for a few weeks. You are depending on other people for transportation. You are feeling overwhelmed and finding it hard to focus on the things you need to do to take care of your diabetes.

Are you experiencing stress? How do you know?

Stress is the body's natural reaction to any demand (physical or psychological) put on it. How stressful an event is depends on how a person looks at the event and whether he/she thinks it is good or bad. Other things going on in our lives affect how we see stress. Something may feel very stressful one day and not stressful another day. Change of any kind, whether it is positive or negative, is stressful. Major life stressors such as illness or death in the family, are stressful for everyone. Some major life events, such as graduating from school, marriage, the birth of a child, a new job or retirement, are positive and challenging situations that can cause a stress response. Minor life stressors are events that happen in daily life, such as being in a traffic jam, arguing with a coworker or family member, tests, phone calls or doctor visits. Events such as holidays or vacations can be stressors.

2. What are some ways your body might react to stress you are having?

The body reacts to stress in various ways, including increased heart rate, increased blood pressure, rapid and shallow breathing, tense muscles, increased sweating and increased blood sugar. Energy is needed to either fight off stress or run away from it—the flight or flight response. If extra energy is not used to fight or run away, it can leave a person feeling tense and tired or cause a headache.

3. What are some ways stress might affect your diabetes?

Stress makes control of diabetes more difficult. It can cause blood sugar to go high and it can make it hard for a person to do the things they need to do to take care of their diabetes. Some people find they feel less able to deal with stress when their blood sugar is high, low or uneven. Their energy for handling the things that cause stress is being used up on diabetes. All people feel stress from time to time. Too much stress can lead to health problems and will affect diabetes control.

4. What would you do to handle this situation?

Limiting stressful events or handling them positively helps a person stay healthy. Positive coping behaviors include being more physically active, writing down feelings, talking with trusted people (such as a medicine person or spiritual healer), saving time for oneself every day, asking for support from others, doing fewer things so that you can do them better, keeping sense of humor and/or spending time on a hobby. Relaxation techniques can help a person handle stress. Some relaxation techniques are prayer, meditation, yoga, deep breathing, visual imagery and muscle relaxation. Sometimes it is healthy to avoid stressful situations until there has been time to think about how to handle the situation positively. If people want help with handling stress or feel unable to cope, they can ask for professional help.







SESSION

3 Making Healthy Changes

DM-BG Making Healthy Changes

STATEMENT OF PURPOSE

This session provides a problem-solving approach to diabetes self-care and general health habits. Behavior change strategies and goal setting are included.

PREREQUISITES

It is recommended that participants have basic knowledge of diabetes self-care, either from personal experience or attending previous sessions.

LEARNING OBJECTIVES

DM-BG1 State in simple terms what a goal is.

DM-BG2 Discuss personal habits.

DM-BG3 Identify desirable behavior changes.

DM-BG4 Describe the process for making personal change.
DM-BGGS State or write a plan to change one or more behaviors.

DM-BGGNS Behavior goal not set (follow-up).

DM-BGGM Behavior goal met (follow-up).

DM-BGGM Benavior goal met (follow-up).

Behavior goal unmet (follow-up).



CONTENT

Goal setting; Problem-solving

MATERIALS NEEDED

Visuals Provided

- #1 Sample Long-term Goals
- #2 Healthy Behaviors
- #3 Make Healthy Habits a Pleasure
- #4 Changing Habits Step-by-Step
- #5 Name That Stage
- #6 Staying on the Path
- #7 Benefits and Barriers
- #8 Changes I Can Make

Additional

Sample completed behavior change records Sample contracts

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative icebreaker. One example is to ask participants to cross their arms the way they normally do. Then ask them to cross their arms the other way. Ask participants how it feels to have their arms crossed the other way – awkward? different? Strange? Tell them that when they start something new, it is sometimes awkward, but when it is repeated, it will become familiar and comfortable, like a habit. (See Introduction on p. XIII for more examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is for participants to develop a plan for working on a behavior they want to change.

Use facilitated group discussion to present material. Encourage participants to share and ask questions to facilitate discussion. Have a variety of teaching tools available based on participants' learning needs. Be creative and encourage interaction.

Review experiences and suggestions with participants so that they can choose a behavior change they believe will be helpful to them. Help participants break down large goals into smaller, more achievable steps. Help them feel that they can do it and not feel overwhelmed.

Encourage family members and friends of participants to take part in the session, either by making a personal behavior change plan or by identifying how they will provide support.

CONTENT OUTLINE

| Objective | Content | Educator's Notes |
|--|--|--|
| Introduction | Taking care of diabetes may mean changing health habits. A person is more likely to succeed in changing habits if they make a plan. Plans include a person's goals and steps to reach them. | You may want to use the analogy of using a map to learn how to get where they want to go. |
| BG1. State in simple terms what a goal is. | A goal is something a person wants to achieve, something they want to work toward. | Ask, "How would you describe what a goal is?" List responses. |
| | A person usually needs to change their behavior to achieve a goal. | Trying to change too much at once may not give them success with reaching their goal. Making small changes will help them reach their goal. |
| | A person is more likely to reach their goal if it is: • reasonable (within reach) • measurable (clear about what needs to be done and when) | Encourage participants to choose goals they think of themselves. Keeping blood sugar at target goal is an example of a long-term goal. But having home blood sugar at target goal at all times is not realistic for most people with diabetes. |
| | Long-term goals are what a person wants to achieve at some point in the future. | Ask, "What are some of your long- term goals for living with diabetes?" Assist participants to identify one long-term goal to use as a personal example during this session. |
| | | Visual #1: Sample Long-term Goals. |
| | Short-term goals are the small changes a person will do to reach what they eventually want to achieve (their long-term goal). Examples of short-term goals are: | Ask, "Where would you like to be with this goal 6 months from now? Three months from now? What are some steps you could take to bring you closer to your goal?" |

| Objective | Content | Educator's Notes |
|---|--|---|
| BG1. (continued) | checking blood sugar twice a day walking for 30 minutes 2 days a week | |
| BG2. Discuss personal habits. | Habits are behaviors that a person repeats often. People usually repeat behaviors that bring them pleasure and avoid behaviors that they dislike. Habits come in many forms and can have more healthy or less healthy effects. | Visual #3: Make Healthy Habits a Pleasure: See Why Do I Do What I Do? p. 15 |
| | Habits are formed over time. Sometimes a person is not even aware that they are forming habits. | A person may have had these habits for many years. They are not always easy to change. Many habits are learned from a person's family. Making changes in habits can help families live healthier. |
| | The ways that people eat, do physical activity and take care of their health are habits. | Ask, "What are some of your habits that affect your long-term goals for living with diabetes?" List responses. |
| BG3. Identify desirable behavior changes. | Some health habits that have a healthy effect on diabetes are: • making healthy food choices • being physically active every day • taking medicines as prescribed • checking blood sugar at home • looking at one's feet every day • getting yearly tests and exams • visiting the health care provider regularly • stopping tobacco use • drinking less alcohol • coping with stress • asking for help with making changes | Ask, "What changes have you made as a result of diabetes? What changes have been hard/easy?" List responses. Ask, "What habits would you still like to add or change?" Assist participants to identify desirable behaviors on Visual #2: Healthy Behaviors in relation to the long-term goal they are using as a personal example during the session. |

| Objective | Content | Educator's Notes |
|---|--|--|
| BG4. Describe the process for making personal change. | There are steps people can take to change habits. They include: | Visual #4: Changing Habits Step-by-Step |
| | become aware of the need to change | Think about why it is good to change, what a person wants to change and what they are willing to do to change. |
| | begin to learn how to change | Ask questions and find out more about ways a person can make the change. |
| | take action | After people change their thoughts about a new behavior, they need to start changing their actions. In this step, a person moves beyond things that stopped them before from making changes. |
| | reinforce the new habit | A person's new behavior becomes a part of their life. They continue to |
| | A person is more likely to succeed in changing habits if they start with something they want to do and are ready to do. Success helps a person feel like they can make changes. | learn more. |
| | A person can see how ready they are to change a habit by seeing what stage of change they are in. | Visual #5: Name That Stage and Visual #2: Healthy Behaviors |
| | what stage of change they are in. | Assist participant to complete Visual #2: Healthy Behaviors and the section that applies to the long-term goal they have chosen; put the date in the box identifying the stage they are in opposite the applicable behavior. |
| | The stages of change are: | |
| | thinking about it | A person is thinking about making a change in the next 6 months. |
| | ready to start the change | They are preparing for the change. |
| | doing it now | They have started new behaviors. |

| Objective | Content | Educator's Notes |
|------------------|--|---|
| BG4. (continued) | doing it for 6 months | They have maintained the change for at least 6 months. Note that people may also be at a "never stage," where they are not thinking about making any changes, or a "forever stage," where the behavior is so much a part of their life, they can continue it without effort. |
| | A person may need to make more than one change and they may be at different stages for different health habits. | For example, a person may be ready to start physical activity, but not ready to change food choices. |
| | give up one that a person a For example, if a person w more physical activity, they start with that behavior. | It is easier to add a new habit than to give up one that a person already has. For example, if a person wants to get more physical activity, they need to start with that behavior. |
| | | Visual #6: Staying on the Path |
| | think about benefits and barriers to the goal/behavior change | Visual #7: Benefits and Barriers Assist participants to complete this visual as it relates to the long-term goal/behavior change they are using in this session. |
| | | Only each person can decide if the benefit is worth the effort. If there are more barriers than benefits, they need to decide if they are still ready and willing to make the change. Recognize that doing nothing is a choice. |
| | | Ask, "How will you keep track of new habits? How will you keep track of success in achieving your goal(s)?" Records should be simple and easy-to-do. Show samples of completed behavior change records. |



| Objective | Content | Educator's Notes |
|------------------|---|---|
| BG4. (continued) | write down new habits | |
| | make reminders for new habits | Ask, "What has helped remind you of new habits you are trying to make?" For example, if it is hard for a person to remember to take their pills before breakfast, they could put the bottle on the kitchen table or by the alarm clock. If it is hard to remember to take a walk, they could buy new sneakers and leave them by the door. |
| | avoid situations or things that trigger the old habit | Ask, "Can you think of things that remind you of habits you are trying to break? What are ways to change your environment at home or at work?" For example, if a person wants to stop smoking, they could get rid of their ashtrays. |
| | make plans to deal with barriers and setbacks | Ask, "Are there any problems, barriers, or issues related to the change that you think might happen that you can plan ahead for?" List responses. For example, is there a place to walk in good and bad weather? What food choices could be made at the next potluck or family celebration? |
| | ask for help from family, friends, health care provider or other support person | Ask, "How can family and friends be most helpful to you?" For example, they can also make healthy food choices, walk, not eat tempting foods in front of the person, etc. |
| | | Role-play asking for help if appropriate. |
| | | Ask, "How will you reward yourself when you change a behavior?" List responses. |
| | | For example, take time to do something enjoyable. |

| Objective | Content | Educator's Notes |
|--|--|---|
| BG4. (continued) | reward self for progress make a commitment to the goal/behavior change | A written agreement or contract to make the behavior change increases the chance of success. Show sample contracts. |
| BGGS. State or write a plan to change one or more behaviors. | A person will have more success achieving their short-term goals when their plans include: the specific new behavior they will do when they will start the new behavior how long and/or how frequently they will do the new behavior how and when they will do the new behavior how and when they will evaluate their progress toward achieving the new behavior how they will ask for help with the change If the plan does not work, think about why this may be happening. Some reasons a plan may not work include: the person is not ready for change the goal/behavior is not specific the goal/behavior is too big the goal/behavior is not meaningful to that person another goal/behavior would be better at this time the cost of achieving the goal/behavior outweighs the benefit | Visual #8: Changes I Can Make Ask participants to look at all the choices and steps they have identified and think about 1-3 changes/short-term goals they would like to make to reach the long-term goal(s). For example, if the concern is lack of physical activity and the long-term goal is to walk a mile every day, the short-term goal may be to walk ½ mile 3 times a week by the end of the month and 2 blocks by the end of the week. For example, they might ask someone to walk with them or ask family members to allow them time to walk. Encourage participants to choose specific steps over which they have control. Have participants ask themselves these questions if the plan does not work: Is the goal too big? Are you trying to do too much? Would a different goal be better? Do the costs outweigh the benefits? |

| Objective | Content | Educator's Notes |
|-------------------|---|--|
| BGGS. (continued) | It is okay to choose a new goal and make a new plan. | |
| | A person may have days when they do not stick to their plan to meet their goals. They should not let this get them down. It is best to pick up where they left off and begin again the next day. | If this happens, it is helpful to think about what situations interrupted their plan, what they learned and what they might do differently next time. Encourage discussion about "lessons learned" and how to "pick up" where a person left off. |

SKILLS CHECKLIST

Each participant will be able to identify a long-term diabetes-related goal and develop a behavior change plan for that goal.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by the development of a personal behavior change plan. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





Things were going well with taking care of your diabetes. Six months ago you had stopped drinking regular soda, had started walking for 20 minutes 5 days a week and were taking the diabetes pills the clinic gave you. Your A1c had come down from 10.6% to 7.2% over a 3-month period. Then, a few months ago, you started a new job that required you to work different shifts. You stopped walking as much. You started skipping meals, snacking a lot and drinking regular soda again. Now your A1c is 8.8%.

| What ar | e some reasons a behavior change plan might not work? |
|---------|---|
| | |
| | |
| What we | ould you do to add or reinforce new habits now? |
| | |



4.7



Things were going well with taking care of your diabetes. Six months ago you had stopped drinking regular soda, had started walking for 20 minutes 5 days a week and were taking the diabetes pills the clinic gave you. Your A1c had come down from 10.6% to 7.2% over a 3-month period. Then, a few months ago, you started a new job that required you to work different shifts. You stopped walking as much. You started skipping meals, snacking a lot and drinking regular soda again. Now your A1c is 8.8%. What can you do?

What stage of change are you in now with your eating behavior and activity? 1.

A person is more likely to succeed in changing habits if they start with something they want to do and are ready to do. Success helps a person feel like they can make changes. A person can see how ready they are to change a habit by seeing what stage of change they are at. The stages of change are:

- thinking about it (you are thinking about making a change in the next 6 months)
- · ready to start the change (you are preparing for the change)
- doing it now (you have started new behaviors)
- doing it for 6 months (you have maintained your change for at least 6 months)

People may also be at a "never stage," where they are not thinking about making any changes or a "forever stage," where the behavior is so much a part of their life, they can continue it without effort. A person may need to make more than one change and they may be at different stages for different health habits. For example, you may be ready to start physical activity, but not ready to change your food choices.

2. What are some reasons a behavior change plan might not work?

Some reasons a plan may not work include:

- · the person is not ready for change
 - · the goal/behavior is not specific
 - · the goal/behavior is too big
 - . the goal/behavior is not meaningful to that person
 - another goal/behavior would be better at this time
 - the cost of achieving the goal/behavior outweighs the benefit

It is okay to choose a new goal and make a new plan. A person may have days when they do not stick to their plan to meet their goals. They should not let this get them down. It is best to pick up where they left off and begin again the next day.

What would you do to add or reinforce new habits now? 3.

It is easier to add a new habit than to give up one that you already have. For example, if you want to get more physical activity, start with that behavior. Ways to add and/or reinforce new habits include:

- · think about benefits and barriers to the goal/behavior change
- · write down new habits
- · make reminders for new habits
- · think about what gives you strength to keep going, write it down and look at it often
- · avoid situations or things that trigger the old habit
- · make plans to deal with barriers and setbacks
- · ask for help from family, friends, health care provider, diabetes educator or other support person
- · reward yourself for progress
- · make a commitment to the goal/behavior change







SESSION

4 Healthy Eating

DM-N Introduction to Healthy Eating, Basics of Healthy Eating, and Heart Healthy Eating

STATEMENT OF PURPOSE

This session provides basic information and tools for personal decisions regarding food choices for blood sugar control, heart health and overall health.

PREREQUISITES

Complete Section 1: Introduction to Healthy Eating prior to Section 2: Basics of Healthy Eating.

I FARNING OBJECTIVES

Section 1: Introduction to Healthy Eating

DM-N1 Describe the effect of food on diabetes.

DM-N2 State that healthy food choices are good for the person with diabetes and their whole family.

DM-N3 Describe how timing and consistency of food can help people with diabetes reach their target

blood sugar goals.

DM-N4 Describe the effect of portion sizes on blood sugar.

DM-N5 State that eating less sugar and fat can help lower blood sugar.

DM-N6 State how keeping a record of food eaten can help people with diabetes reach their target blood sugar goals.

DM-NGS State or write a personal plan for making healthy food choices.

DM-NGNS Behavior goal not set (follow-up).

DM-NGM Behavior goal met (follow-up).

DM-NGNM Behavior goal unmet (follow-up).

| Section 2: | Basics o | f Healthy | Eating |
|------------|----------|-----------|--------|
|------------|----------|-----------|--------|

| DM-N7 | State 2 or more benefits of healthy food choices for the person with diabetes. |
|-------|--|
|-------|--|

DM-N8 Record a day's meals onto a food record.

DM-N9 Discuss the basic food groups.

DM-N10 Identify the food groups high in carbohydrates and recognize their effect on blood sugar.

DM-N11 State that weight loss can help people with diabetes reach their target blood sugar goals.

DM-N12 Discuss how to find reliable resources for nutrition facts and answers to questions.

DM-NGS State or write a personal plan for making healthy food choices.

DM-NGNS Behavior goal not set (follow-up).
DM-NGM Behavior goal met (follow-up).

DM-NGNM Behavior goal unmet (follow-up).

Section 3: Heart Healthy Eating

| DM-N13 | State that heart healthy food choices are good for the person with diabetes and their whole |
|--------|---|
| | family. |

DM-N14 Identify foods that increase the risk for heart disease.

DM-N15 Identify foods that decrease the risk for heart disease.

DM-N16 Identify 2 or more ways to choose foods to lower the risk for heart disease.

DM-NGS State or write a personal plan for making healthy food choices.

DM-NGNS Behavior goal not set (follow-up).

DM-NGM Behavior goal met (follow-up).

DM-NGNM Behavior goal unmet (follow-up).

CONTENT

Nutritional management

MATERIALS NEEDED

Sections 1 and 2: Introduction to Healthy Eating and Basics of Healthy Eating

Visuals Provided

- #1 What I Need to Know About Eating and Diabetes
- #2 The Food Pyramid
- #3 Helping Hands
- #4 Portion Sizes You Will Understand
- #5 Hidden Fats
- #6 Hidden Sugars
- #7 Hidden Fats and Sugars
- #8 Food Record
- #9 Choosing Good Foods
- #10 Plate Method: (Breakfast and Lunch/Dinner)
- #11 Nutrients in Food Groups
- #12 Tribe Wins at Losing Weight
- #13 Diabetes and Nutrition: Common Questions, Clear Answers

#14 Changes I Can Make

50



Additional:

First Step in Diabetes Meal Planning

Sample of completed food records

Food models (plastic and/or paper)

Food packages with ingredients listing and nutrition facts label

Paper plates

Samples of foods common in participants' community

Local resource list for meal planning and weight loss

Local resource list for reliable nutrition information

Section 3: Heart Healthy Eating

Visuals Provided

- #2 The Food Pyramid
- #5 Hidden Fats
- #7 Hidden Fats and Sugars
- #15 How to Have a Healthy Heart

Additional:

Sample of completed food records

Food models (plastic and/or paper)

Food packages with ingredients listing and nutrition facts label

Fat tubes

Fat model

Model of arteries with fat

METHOD OF PRESENTATION

Introduction to Healthy Eating provides the survival skills needed to help patients make initial changes in eating behaviors. Basics of Healthy Eating and Heart Healthy Eating build on the Introduction to Healthy Eating session. The instructor will need to provide content in 2 or more sessions depending on participant knowledge and learning needs. Generally, Section 1: Introduction to Healthy Eating would be offered first. However, the instructor may choose to offer Section 3: Heart Healthy Eating first if the participant has an interest in, or need for, this content

In order to use teaching materials effectively, instructors need to become familiar with the variety of materials available for this session. It is important for instructors to point out specific content in the materials and explain it. Instructors need to avoid giving these materials to participants without explanation.

Use a creative icebreaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to discuss how food choices affect diabetes and provide practical ideas for food choices to achieve target blood sugar goals and/or heart health.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate the discussion. Have a variety of teaching tools available based on participants' learning needs. Be creative and encourage interaction. Use food records or develop examples that participants can use for problem-solving. Encourage participants to have the person who prepares their food attend this session with them.

CONTENT OUTLINE

Section 1: Introduction to Healthy Eating

| Objective | Content | Educator's Notes |
|---|--|---|
| N1. Describe the effect of food on diabetes. | Food raises blood sugar. When, what and how much a person eats affects how much their blood sugar rises. | Ask, "What changes have you made in your food choices since you learned you had diabetes? How do you feel about them?" List responses. |
| | When a person knows what is in the food they eat and how it affects their blood sugar, they can make choices about when, what and how much to eat. | Each person's blood sugar response to food varies. Checking blood sugar at home helps a person learn how food affects blood sugar. |
| | Small changes in a person's food choices can make a big difference in their blood sugar over time. | Stress the importance of balancing food choices with physical activity and medicines, if needed, to reach blood sugar goals. |
| N2. State that healthy food choices are good for the person with diabetes and their whole family. | There is no single "diet" for a person with diabetes. People with diabetes can eat the same things as people who do not have diabetes. | Ask participants, "How do the food choices you make affect your family? How does your family feel about the changes you made?" List responses. |



| Objective | Content | Educator's Notes |
|---|---|---|
| N2. (continued) | The food choices people with diabetes need to make are good for everyone in the family. | Discuss session content with the health of the whole family in mind. Encourage healthy food choices for every member of the family. |
| | Making healthy food choices helps the whole family: • feel better • stay healthy • reach and maintain a healthy weight | Emphasize that people with diabetes are no different than those without diabetes in their need for healthy foods. |
| | Healthy food choices may help family members prevent or delay diabetes. | |
| | These are some of the ways people with diabetes and their families can eat healthily: eat smaller portions of food drink more water eat more high fiber foods such as fruits, vegetables and whole grains eat smaller portions of food high in sugar and fat eat when hungry and stop when full drink less alcohol | Drinking alcohol can make it harder to reach target blood sugar goals and can make some problems worse. Discuss use of alcohol with the diabetes care team. |
| N3. Describe how timing and consistency of food can help people with diabetes reach their target blood sugar goals. | When, what and how a person eats affects their blood sugar. Eating the same amount of food, at about the same time each day helps: • keep the blood sugar from being too high or too low | Visual #1: What I Need to Know About Eating and Diabetes, pp. 4-5 Ask, "What times do you usually eat? Do these times change day to day? What makes it easy for you to eat abou the same time every day? What makes it hard?" List responses. |

| Objective | Content | Educator's Notes |
|-----------------|--|--|
| N3. (continued) | diabetes medicines work better to keep blood sugar at target goal | Some people do not need diabetes medicine to reach their target blood suga goals. |
| | | Visual #1: What I Need to Know About Eating and Diabetes, p. 6 |
| | These things will help people reach their target blood sugar goals: • eat at least 3 times a day • eat each meal and snack at about the same time each day | A person also needs to balance the time they eat with diabetes medicine and physical activity. Do physical activity at about the same time every day and take diabetes medicine at about the same time every day. |
| | eat about the same amount of food at each meal each day | Small meals throughout the day keep the blood sugar balanced. |
| | • do not skip meals | When a person skips a meal they are more likely to overeat at the next meal, or look for a quick snack that may not be a healthy food choice. They can plan ahead so they do not miss meals by: • packing a lunch or snack when away from home for meals • setting a timer as a reminder of when to eat • planning to eat with a family member, friend or coworker |
| | | If they do miss a meal, they can keep these things on hand: • washed, cut-up vegetables and fruits for quick snacks • a small portion of low fat granola bars, crackers or pretzels • low fat cheese, lean lunch meats and low fat yogurt |
| | eat breakfast | a small package of nuts |



| Content | Educator's Notes |
|---|--|
| A person is more likely to reach their blood sugar goals if they eat small amounts of food every 3-5 hours rather than eating a lot of food at 1 or 2 meals each day. | |
| The amount of food a person eats affects their blood sugar. | Visual #2: The Food Pyramid Ask, "How do you know you are eating too much?" List responses. |
| Too much food at one time can raise the blood sugar too high. Eating less food at one time does not raise blood sugar as much. | If a person eats smaller amounts of food during the day, the body needs less insulit to move the sugar from the food into the body cells. |
| | Check blood sugar at home after eating to learn the effect of food on blood sugar |
| A portion is how much of something a person eats. A portion is also called a serving . | Use the term that is appropriate for participants' community. |
| Some ways to eat smaller portions are: | Ask, "What are some ways to eat less food?" List responses. |
| use measuring spoons and cups to measure portions use a small plate at more slowly put fork down between bites | Encourage participants to listen to their stomach and stop eating when they are comfortably full, not over-filled. |
| A simple way a person can choose healthy portions of food is to use the hand as a guide. For example: | Visual #1: What I Need to Know About Eating and Diabetes, pp. 40-41, and Visual #3: Helping Hands |
| eat meat portions the size of their palm and the thickness of their little finger | Remind participants they always have their hands with them and they are alway the same size. Assist participants to use the "Helping Hands" method to estimate portion size. |
| | A person is more likely to reach their blood sugar goals if they eat small amounts of food every 3-5 hours rather than eating a lot of food at 1 or 2 meals each day. The amount of food a person eats affects their blood sugar. Too much food at one time can raise the blood sugar too high. Eating less food at one time does not raise blood sugar as much. A portion is how much of something a person eats. A portion is also called a serving. Some ways to eat smaller portions are: • eat one serving • use measuring spoons and cups to measure portions • use a small plate • eat more slowly • put fork down between bites A simple way a person can choose healthy portions of food is to use the hand as a guide. For example: • eat meat portions the size of their palm and the thickness of |

| Objective | Content | Educator's Notes |
|--|--|--|
| N4. (continued) | eat vegetable portions as much as they can hold in their cupped hands eat starchy vegetables, beans, cereal and rice portions the size of their fist eat a serving of fruit the size of their fist | Discuss Visual #4: Portion Sizes You Will Understand and/or use food models and samples of foods commonly used in participants' community for more ideas and practice on how to choose healthy portions. Visual #1: What I Need to Know |
| | The total amount of food a person eats each day is also important. Eating less food will help some people reach and maintain a healthy weight. Even healthy foods can raise blood sugar too much if a person eats too much of them. | About Eating and Diabetes, pp. 9-12 How much food a person needs to eat depends on: • whether they are a man or a woman • how much they weigh • how tall they are • their age • how much physical activity they get • the type of work or activity they do every day Optional activity: Assist participants in completing Make Your Own Diabetes Food Pyramid, p. 12 in Visual #1: What I Need to Know About Diabetes. Refer participants to a registered dietitian to learn more about the food portions that are best for them. |
| N5. State that eating less sugar and fat can help lower blood sugar. | Eating less sugar and fat can help: | Visual #1: What I Need to Know About Eating and Diabetes, p. 33-34 |
| and all all all all all all all all all al | lower blood sugar | Ask, "What do you think might happen if you eat less foods that are high in sugar and fat?" List responses. |
| | • reduce weight | When a person eats less sugar and fat, they are eating fewer calories. Eating fewer calories may help them reach and maintain a healthy weight. |



| Objective | Content | Educator's Notes |
|---|--|--|
| N5. (continued) | lower the chance for heart disease | See Section 3: Heart Healthy Eating. |
| | These are some things that can help a person eat less sugar and fat: | Ask, "What are some foods high in sugar and high in fat? What are ways that you can eat or drink less sugar and fat?" List responses. |
| | eat foods from all the food groups choose foods and drinks with little or no added sugar drink small portions of fruit juice eat less "fast food" eat less chips and candy | Food groups are covered in Objective N9. |
| | eat small portions of seeds and nuts bake, broil, boil, grill or | A healthy portion of seeds and nuts is not more than a small handful in one day. |
| | bake, broil, boil, grill or microwave foods share a piece of dessert with a friend choose smaller portions | Visual #5: Hidden Fats, Visual #6: Hidden Sugars, Visual #7: Hidden Fats and Sugars |
| | encode shared portions | Explain that many foods have sugars and fats that cannot be seen. For example, a person can see the sugar it table sugar and syrup, but Gatorade® has sugar they do not see. They can see the fat in butter and meat, but peanut butter and hot dogs have hidden fats. When a person sees the sugar and fat they can choose to avoid them. It is harder to avoid sugar and fat when they cannot be seen in foods |
| N6. State how keeping a record of food eaten can help people with diabetes reach their target blood | Food records help people make changes to reach their target blood sugar goal. | Visual #8: Food Record Ask, "How could writing down what you eat and drink help you reach your blood sugar goals?" List responses. |
| sugar goal. | People are not always aware of what they eat or drink during the day. Writing it down can help them be more aware. | The person with diabetes and their diabetes care team need to know what is being eaten now to see what changes would help. |

| Objective | Content | Educator's Notes |
|--|--|---|
| N6. (continued) | A food record shows what a person eats in a day: what foods a person eats and drinks how the food is prepared the amounts of food eaten the times during the day food is eaten the place a person eats Food records can help a person reach their blood sugar goals by telling them: if they are eating too much of some foods if they are eating too little of some foods if they are skipping meals if they are eating too many snacks if they are eating too many snacks if they are eating in response to emotions | Food records help the person with diabetes and the diabetes care team learn about patterns in: • timing of eating • location of eating • food preparation • food preferences • emotional eating • total food intake Show samples of completed food records. See Objective N8 for details on completing a food record. Participants may complete a day's food record at this time if appropriate. |
| NGS. State or write a personal plan for making healthy food choices. | Making changes in health habits, such as choosing healthy portions and eating less sugar and fat, is easier when plans are broken down into small, easy-to-do-steps. | Visual #14: Changes I Can Make Assist participants to make a personal plan for making healthy food choices. See Session 3: Making Healthy Changes. |

Section 2: Basics of Healthy Eating

| Objective | Content | Educator's Notes |
|--|---|---|
| N7. State 2 or more benefits of healthy food choices for people with diabetes. | Making healthy food choices helps people with diabetes: | Ask, "How does making healthy food choices help you?" List responses. |
| | reach and maintain target blood sugar goals | Blood sugar goals are covered in Session 1. |
| | reach and maintain target blood fat goals | Blood fat goals are covered in Session 8. |

| Content | Educator's Notes |
|--|--|
| reach and maintain target blood pressure goals | Blood pressure goals are covered in Session 8. |
| reach and maintain a healthy weight | See Objective N11 for details on weight loss. |
| prevent, delay or treat diabetes complications improve overall health | Chronic complications are covered in Session 10. Healthy food choices help people have more energy and increase the body's ability to fight infection. |
| These are steps to complete a food record: | Visual #8: Food Record Use the Food Record for discussion during this session. |
| choose the days to keep a food record | Suggest varying the days chosen, such as weekdays and weekends. |
| write down: all the food eaten and drank | Write down even small bites of food. |
| - an estimate of the amount of food eaten and drank | Visual #4: Portion Sizes You Will Understand When beginning to keep a food record, |
| - the time food is eaten and drank | it helps to measure food a few times with measuring cups and spoons. This will help the estimate match more closel |
| - how the food was prepared | the actual amount of food eaten. |
| - where the food is eaten and drank | Write down foods and drinks as soon a they are eaten so they are not forgotten |
| Food records help people learn a lot about how they are eating so they can make healthier choices. | Keeping a food record can be a lot of work, but the time spent keeping records will help a lot with making needed changes in the long run. |
| | Visual #9: Choosing Good Foods may be used as an alternative to a food record to identify current foods eaten with a checklist format. |
| | reach and maintain target blood pressure goals reach and maintain a healthy weight prevent, delay or treat diabetes complications improve overall health These are steps to complete a food record: choose the days to keep a food record write down: all the food eaten and drank an estimate of the amount of food eaten and drank the time food is eaten and drank how the food was prepared where the food is eaten and drank Food records help people learn a lot about how they are eating so |

| Objective | Content | Educator's Notes |
|------------------------------------|---|---|
| N8. (continued) | | If a person wants to learn more about why they cat the way they do, they can also write down: • how long it took to eat • who they eat with • what they are doing while eating • what they are feeling • how hungry or full they are before and after eating, using a scale of 1 (starving where the stomach hurts, to 10 (holiday-stuffed), with 5 being comfortable or just right Some people may want to try writing down what they plan to eat to help them with choosing portions. Assist participants to complete a food record with a food recall from the day before. Have sample recalls available for people who may find it easier to apply learning to the "third person." |
| N9. Discuss the basic food groups. | Foods can be grouped into: • starches • fruit • vegetables • meat and meat substitutes • milk • fats and sweets | Visual #1: What I Need to Know About Eating and Diabetes, p. 8, and Visual #2: The Food Pyramid Review the pyramid with participants and use it for discussion of the food groups and recommended servings of each. |
| | All food groups are important. There is not one food group that can provide all the nutrients the body needs to stay healthy. Some of the foods in each group are: | Emphasize that people need to eat a variety of foods each day to get all of the vitamins, minerals and nutrients needed for good health. |



| Objective | Content | Educator's Notes |
|-----------------|---|---|
| N9. (continued) | Starches Bread, rolls, bagels, English muffins, tortillas, pita bread, pasta, noodles, spaghetti, macaroni, rice, cereal (dry or cooked), legumes like lentils, dried or canned beans (garbanzo, kidney, black, pinto, butter), dried peas (split or black-eyed) and starchy vegetables like potatoes, corn, green peas, squash and taro root | Visual #1: What I Need to Know About Eating and Diabetes, pp. 13-16 Assist participants to identify these food groups in their food record. |
| | Fruit Apples, oranges, bananas, berries, and all other fruits, except avocado, that are fresh, frozen, canned or juiced | Visual #1: What I Need to Know About Eating and Diabetes, pp. 21-24 |
| | Vegetables Carrots, green beans, peppers and chilies, onions, wax beans, broccoli, beets, greens, okra and all other crunchy vegetables | Visual #1: What I Need to Know About Eating and Diabetes, pp. 17-20 |
| | Meat and meat substitutes Beef, pork, lamb, chicken, turkey, fish, wild game, seal, whale, eggs, cheese and peanut butter | Visual #1: What I Need to Know About Eating and Diabetes, pp. 29-32 |
| | Milk All milk products and yogurt (plain or artificially sweetened) | Visual #1: What I Need to Know Abou. Eating and Diabetes, pp. 25-28 |
| | Fats and sweets Butter, margarine, cream, oil, seal oil, whale blubber, salad dressing, mayonnaise, sour cream, cream cheese, coffee creamer, bacon, lard, fatback, nuts and seeds, sugar, honey, maple syrup, cookies, cakes, doughnuts, candy and soda | Visual #1: What I Need to Know Abou. Eating and Diabetes, pp. 33-36 |
| | People need to eat the most servings from the starches, vegetables and | Visual #2: The Food Pyramid |

| Objective | Content | Educator's Notes |
|---|---|--|
| N9. (continued) | fruits—the largest section of the food pyramid. People need to eat small amounts of fats and sweets—the smallest sections of the food pyramid. | |
| | The "Plate Method" is a simple guide for choosing healthy kinds and amounts of food. The "Plate Method" shows how much space different food groups should take on the plate. | Visual #10: Plate Method Assist participants to use their food record to compare their food selection for one meal to the recommended "plate." Ask participants to share observations. List responses. |
| N10. Identify the food groups high in carbohydrate and recognize their effect on | Some foods make a person's blood sugar go up more and faster than other foods. | Visual #11: Nutrients in Food Groups |
| recognize their effect on blood sugar. | Carbohydrate, protein and fat affect blood sugar. | Carbohydrate is a nutrient and includes sugar and starch. The body burns carbohydrate for energy. |
| | | Protein is a nutrient that builds and repairs muscle and skin and is part of every cell in the body. |
| | | Fat is a nutrient that supplies energy, keeps skin healthy and is needed to carry some vitamins. |
| | | The other nutrients are vitamins, minerals, fiber and water. |
| | Carbohydrate foods affect blood sugar the most. | Protein foods have a little effect on blood sugar, except when they are eaten in big portions (6 ounces or more). |
| | Starch, fruit and milk are the food groups high in carbohydrate. Sweet foods and drinks are also high in carbohydrate. Small amounts of carbohydrate are in foods from the vegetable group. | Assist participants to identify carbohydrate foods in their food record. Food models and samples of foods commonly used in the community may also be used. |



| Objective | Content | Educator's Notes |
|--|---|--|
| N10. (continued) | Most foods that have carbohydrates are healthy foods people need to eat. But eating too much carbohydrate food at one time can cause high blood sugar. A registered dictitian can help people learn how much carbohydrate is best for them. | We need carbohydrate—that is why it is the largest portion of the food groups on the food pyramid. Many of the carbohydrates are important sources of nutrients that help prevent disease. A registered dietitian will decide how much carbohydrate is best for each participant. Refer participants to a registered dietitian as appropriate. Visual #2: The Food Pyramid |
| | People need more than one portion of carbohydrate food at each meal: • women need about 3-4 servings • men need about 4-6 servings • snacks need to include no | Discuss participants' food record. Ask, "Were the number of carbohydrate food portions you ate smaller, bigger or the same?" |
| | more than 1-2 servings | If a person is trying to lose weight, they might limit portions to: • women: 2-3 servings • men: 3-4 servings |
| | | Emphasize the importance of checking blood sugar at home to see how food choices, physical activity and medicine, if needed, are working to reach target blood sugar goals. |
| | | Checking blood sugar 2 hours after a meal starts can tell a person the number of carbohydrate portions that are best, or if a certain carbohydrate food raises blood sugar more than other carbohydrate foods. |
| N11. State that weight loss can help people with | Weight loss is one way to lower blood sugar. | Visual #12: Tribe Wins at Losing Weight |
| diabetes reach their target blood sugar goals. | Weight loss: • makes the body cells more sensitive to insulin and insulin | A loss of 5-10 pounds will help lower blood sugar. Weight loss helps people at risk for |
| | works better • helps people reach target blood sugar goals | diabetes reduce their chances of developing diabetes. |

| Content | Educator's Notes |
|--|--|
| These things may help people lose | Weight loss can help people reach their target blood pressure and blood fat goals Ask participants to share the things |
| weight or keep them from gaining more weight: | they do, or have done in the past, to lose weight. List responses. Review food record to see what participants are doing and what changes they could be making. |
| be more active every day eat breakfast and try not to skip meals eat when hungry and stop when feeling full | Try walking, dancing or another enjoyable activity. |
| join an activity, weight loss and/or support group eat more fresh fruits, vegetables and whole grains choose lean meat, fish, poultry and skim milk | Provide local resource list. |
| | Try a cooking class for ideas. Provide local <i>resource list</i> . |
| | Try for about 8 glasses of water each day. |
| try to eat more meals at home and fewer meals in restaurants eat less "fast food" | Pack lunches and snacks to take to work. |
| choose smaller portions of foods made with added fat and foods high in fat make healthy choices for between-meal snacks choose calorie-free or reduced calorie drinks use smaller plates or bowls for meals | Remind participants that carbohydrate, protein and fat all provide calories to our bodies. Fat gives more calories per serving than both carbohydrate and protein. Fat is most easily changed to body fat—although too much protein and carbohydrate will also be stored as body fat. Foods that are high in water and fiber have fewer calories per bite. They take more time to chew, take longer to eat and can help a person feel |
| | These things may help people lose weight or keep them from gaining more weight: • be more active every day • eat breakfast and try not to skip meals • eat when hungry and stop when feeling full • join an activity, weight loss and/or support group • eat more fresh fruits, vegetables and whole grains • choose lean meat, fish, poultry and skim milk • use low fat cooking methods • drink a lot of water • try to eat more meals at home and fewer meals in restaurants • eat less "fast food" • choose smaller portions of foods made with added fat and foods high in fat • make healthy choices for between-meal snacks • choose calorie-free or reduced calorie drinks • use smaller plates or bowls for |



| Objective | Content | Educator's Notes |
|---|--|--|
| N11. (continued) | | Refer participants to a registered dietitian for assistance with weight loss as appropriate. |
| N12. Discuss how to find reliable resources for nutrition facts and answers to questions. | These are some ways people can find resources that provide good nutrition information: • ask a registered dietitian or other member of the diabetes care team • contact organizations such as the American Diabetes Association and the American Dietetic Association • read newsletters • search the Internet • attend cooking classes and supermarket tours | People may read or hear information that is different than current thinking about what is good for health. Discuss things to be careful of and how to evaluate information. Distribute resource list, including reliable journals, websites, etc. (See Resource Directory in Appendix.) Distribute Visual #13: Diabetes and Nutrition: Common Questions, Clear Answers |
| NGS. State or write a personal plan for making healthy food choices. | Making changes in health habits, such as choosing foods to lose weight or to reach target blood sugar goals, is easier when plans are broken down into small, easy-to-do steps. | Visual #14: Changes I Can Make Assist participants to make a personal plan for making healthy food choices. See Session 3: Making Healthy Changes |

Section 3: Heart Healthy Eating

| Objective | Content | Educator's Notes |
|--|---|--|
| N13. State that heart healthy food choices are good for the person with diabetes and | People with diabetes have a greater chance of having heart disease than people without diabetes. But all | Visual #15: How to Have A Healthy Heart and Visual #2: Food Pyramid |
| the whole family. | people are at risk for heart disease. | Ask, "What can you do to keep you heart healthy?" List responses. |
| | Foods that can help people with diabetes have a healthy heart are also good for the heart health of the whole family. | There are many things people can do to prevent or delay heart disease. They include: |

| Objective | Content | Educator's Notes |
|---|---|---|
| N13. (continued) | Food choices that help people reach and maintain a healthy weight and reach and maintain blood fat and blood pressure goals, help everyone in the family prevent heart disease. | keeping blood sugar, blood pressure and blood fats at target goal staying at a healthy weight being more active seeing a health care provider every six months taking aspirin when prescribed stopping tobacco use managing stress Heart disease is covered in Session 10. |
| N14. Identify foods that increase the risk for heart disease. | Eating foods high in saturated fat and trans fat can increase the chance of heart disease. | |
| | The body makes its own cholesterol. It is needed for good health. Sometimes there is too much cholesterol in the blood because: | There are two kinds of cholesterol in the blood: • LDL (lousy or bad cholesterol) • HDL (happy, healthy or good cholesterol) |
| | the body makes too much cholesterol | Too much LDL can increase the chance of heart disease. |
| | the person is eating too many foods high in saturated fat | Blood fat goals are covered in Session 8. |
| | Foods high in saturated fat increase the amount of fat and cholesterol in the blood. | |
| | These are foods that are high in saturated fats: animal foods: | Ask, "What are some foods that are high in fat?" List responses. Use food models, packages with ingredient listing and samples of foods commonly used in the community for demonstration. |

| Objective | Content | Educator's Notes |
|------------------|---|---|
| N14. (continued) | whole/2% milk ice cream butter lard sour cream, cream cheese salad dressings made with added bacon, sour cream and/ or cheese tropical fats: coconut, palm and palm kernel oils Hydrogenated or partially hydrogenated fats (trans fats) can also increase the chance of heart disease. They are found in: stick margarine | These fats are solid at room temperatur and are often used as ingredients in packaged foods. |
| | solid shortening regular peanut butter foods fried in shortening or margarine most crackers and other snack foods baked goods like cookies, pies and cakes fried "fast foods" chocolate | Solid shortening comes in a can or a stick. |
| | Eating foods high in salt or sodium can increase the chance of heart disease. | |
| | Eating foods high in salt or sodium can increase blood pressure. | Salt is made of sodium chloride. Sodiur is a mineral needed by the body, but in very small amounts. |
| | | The amount of sodium that is needed by the body will be different in different people. |
| | These are examples of foods high in salt or sodium: • table salt | Participants need to work with their registered dictitian to decide on the amount of salt and sodium that is best for them. |

| Objective | Content | Educator's Notes |
|---|---|---|
| N14. (continued) | seasonings that contain salt or sodium lunch meats any pickled foods smoked foods canned foods bacon "fast foods," convenience and many frozen foods meat tenderizers canned vegetables dried soups rice, noodle and potato mixes | Examples are garlic salt, onion salt, soy sauce and lemon pepper. Examples are canned vegetables, meats (such as Spam) and soups. An example is ramen noodles. |
| | salted snack foods | Examples are salted chips, nuts, seeds, pretzels and french fries. |
| N15. Identify foods that decrease the risk for heart disease. | Choosing foods naturally low in fat will help lower blood fats and prevent heart disease. They include: • fruits • vegetables • whole grains like barley and wild rice • whole grain breads, cereals and pastas • dried peas and beans • very lean meats, birds, fish and shellfish | Ask, "What foods could you eat that are good for your heart?" List responses. |
| | Choosing foods with monounsaturated fats will help lower LDL cholesterol and help prevent heart disease. They include: | Monounsaturated fats lower LDL ("bad") cholesterol, but do not affect the HDL ("good") cholesterol levels. |
| | olives and olive oil canola oil peanuts or peanut oil avocados almonds, cashews, pistachios and other nuts | Some fish contain another type of fat that helps lower a person's risk for heart disease. Examples are fatty fish like salmon, herring, albacore tuna, sardines and lake trout. This is why experts recommend eating fish twice a week. |



| Content | Educator's Notes |
|--|---|
| Choosing foods low in salt and sodium can help lower blood pressure and prevent heart disease. They include: | Use food packages with ingredient listings and food models for demonstration. |
| herbs and spices instead of salt to give food flavor fresh meats instead of lunch meats, pickled or smoked | Examples are oregano, garlic, onion, cilantro, cumin, chili powder, pepper, fresh chili and salt-free blends, such as Mrs. Dash. |
| fresh or frozen vegetables instead of canned vegetables low sodium and salt-free products | If using canned vegetables, drain liquid and reheat them in fresh water. |
| soups and stews made from fresh ingredients rather than packaged foods fruit and vegetables for snacks in place of salted snack foods | |
| Choosing foods high in fiber lowers cholesterol and can help prevent heart disease. | High fiber foods prevent cholesterol from being absorbed by the body. Have food packages and food models |
| People can choose to eat: | of plant foods high in fiber available to show participants. |
| fruits and vegetables | See listing of fruits and vegetables in Objective N-9. |
| 100% whole grain breads and breakfast cereals brown rice, wild rice and whole grain noodles oatmeal, barley, corn meal and whole wheat flour beans, peas and lentils | An example is cracked whole wheat bread. |
| These are things that a person can do to eat less fat: • choose lean meats such as chicken, turkey, 10% fat ground beef (or less) and fish like tuna or salmon | Ask, "What are changes you can make in your food choices to lower your chances for heart disease?" List responses. Ask, "What is a change you might make to eat less fat?" List responses. |
| | Choosing foods low in salt and sodium can help lower blood pressure and prevent heart disease. They include: • herbs and spices instead of salt to give food flavor • fresh meats instead of lunch meats, pickled or smoked meats • fresh or frozen vegetables instead of canned vegetables instead of canned vegetables olow sodium and salt-free products • soups and stews made from fresh ingredients rather than packaged foods • fruit and vegetables for snacks in place of salted snack foods Choosing foods high in fiber lowers cholesterol and can help prevent heart disease. People can choose to eat: • fruits and vegetables • 100% whole grain breads and breakfast cereals • brown rice, wild rice and whole grain noodles • oatmeal, barley, corn meal and whole wheat flour • beans, peas and lentils These are things that a person can do to eat less fat: • choose lean meats such as chicken, turkey, 10% fat ground beef (or less) and fish |

| Objective | Content | Educator's Notes |
|------------------|---|---|
| N16. (continued) | choose 95% (or greater) fat-free lunch meats for sandwiches limit high fat meats such as bacon, sausage, Vienna sausage, potted meat, Spam, bologna, hot dogs and chorizo bake, broil, boil, microwave or barbecue meats drink 1%, 1/2%, or skim milk choose lower fat or fat-free cheese and eat smaller amounts of all cheeses try to keep egg yolks to 2 or less per week choose egg whites or egg substitute products use less (or do not use) butter, sour cream, cream cheese, mayonnaise, shortening, lard and regular peanut butter choose lower fat or non-fat products for salad dressings, sour cream, cream cheese and mayonnaise choose baked products that are lower in fat use liquid oils when cooking select lower fat varieties of tub margarines | Review Visual #5: Hidden Fats and Visual #7: Hidden Fats and Sugars |
| | These are things people can do to eat less salt: • use less salt in cooking and at the table • use more herbs and spices instead of salt to give food flavor • cook meat slowly and at a lower temperature to make it more tender and use smaller amounts of meat tenderizers, or none at all • eat smaller portions of lunch meats and eat them less often | Ask, "What could you do to eat less sal and sodium?" List responses. |



| Objective | Content | Educator's Notes |
|------------------|---|---|
| N16. (continued) | add fresh vegetables (like onion, tomato, lettuce) to meat and cheese sandwiches to help eat smaller portions of lunch meats and cheeses eat smaller portions of pickled and smoked foods and eat them less often drain liquid from canned foods and reheat them in fresh water add fruits and fresh or frozen vegetables to all meals use fruits and vegetables as snacks in place of salted snack foods | |
| | These are things people can do to eat more fiber: • eat at least 5 servings of fruits and vegetables every day • eat 2 vegetables at every meal • eat fruit and vegetables for snacks • eat fruit for dessert • make fruit desserts like crisps or cobblers instead of cake or pie • try eating 100% whole grain or whole wheat breads for toast and sandwiches | Ask, "How could you add more fiber to your meals?" List responses. Share examples of ways to add fiber to specific meals: Breakfast: oatmeal, whole wheat toast, fresh fruit high fiber cold or dry cereal, fresh fruit whole wheat English muffin, poache egg |
| | enjoy a whole grain cereal for breakfast or a snack try mixing brown rice or wild rice with white rice mix whole grain with white noodles or pasta add brown rice or barley to casseroles and soup bake with commeal and whole wheat flour in place of all or some of the white flour in a recipe try corn tortillas or whole wheat flour tortillas | Lunch: • turkey sandwich on whole wheat bread with lettuce and tomatoes, fresh fruit • vegetable barley soup with whole wheat bread, fresh fruit • corn bread, pinto beans, and tossed salad with low fat dressing Dinner: • pinto beans with tomatoes, onions, bell peppers served with rice, corn meal tortillas, tossed salad with low fat dressing |

| Objective | Content | Educator's Notes |
|--|--|---|
| N16. (continued) | add beans to soups and casseroles drain a can of beans and eat some on a salad try chili made with 2 or 3 kinds of beans add lentils to soup | baked chicken, broccoli, baked potato, fresh fruit and whole wheat rolls Refer participants to a registered dietitian for assistance with choosing foods to lower their risk for heart disease. Provide local resource list for cookbooks, cooking classes, supermarket tours, support groups, etc. |
| NGS. State or write a personal plan for making healthy food choices. | Making changes in health habits, such as choosing foods for heart health, is easier when plans are broken down into small, easy-to-do steps. | Participants need to identify their personal long-term goal for blood fats and blood pressure, develop a plan to achieve it and identify small steps and behavior changes they can start now related to food choices. Emphasize the importance of having support for making changes. Visual #14: Changes I Can Make Assist participants in making personal plans for healthy food choices. See Session 3: Making Healthy Changes. |

SKILLS CHECKLIST

Participants will be able to use a food record and develop a personal plan for food choices that will assist with reaching target blood sugar goals and achieving heart health.



EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by identifying personal meal planning goals and implementation of a plan to achieve those goals. Application of knowledge can also be evaluated through Diabetes and Real Life Activities. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





Tomorrow night is your cousin's 18th birthday. His family is having a big celebration for him, including a potluck meal. Many people have been invited and there will be a lot of good tasting food, including cake, ice cream and other sweets. You have not been to a potluck meal since you were diagnosed with diabetes. You have made a lot of changes in your eating habits since then. Now you are wondering what food you should bring to the birthday celebration and what food you should eat while you are there.

| _ | |
|----|---|
| Wł | hat food would you bring to this potluck? |
| _ | |
| _ | |
| _ | |
| Ho | w would you plan ahead for potlucks and other special occasions |





Tomorrow night is your cousin's 18th birthday. His family is having a big celebration for him, including a potluck meal. Many people have been invited and there will be a lot of good tasting food, including cake, ice cream, and other sweets. You have not been to a potluck meal since you were diagnosed with diabetes. You have made a lot of changes in your eating habits since then. Now you are wondering what food you should bring to the birthday celebration and what food you should eat while you are there.

What can you do about food choices and managing your diabetes at unusual or special times like potlucks?

Some ways to handle this situation are:

- · eat smaller portions
- do not take seconds
- avoid or eat small portions of obviously sweet foods, high fat foods, sauces, gravies and alcohol
- · take dessert but eat none, eat only a small amount, or take it home
- · be last in line so some of the food is gone
- · take a walk after eating
- check your blood sugar 2 hours after eating to see how your food choices affected it

If the potluck does not go as planned, start over tomorrow and think about ways you could do it differently next time.

2. What food would you bring to this potluck?

Bring a food or dessert that fits in with the way you are eating, such as:

- · diet soft drinks
- · plain vegetables
- · homemade bread
- homemade desserts with less fat and sugar

3. How would you plan ahead for potlucks and other special occasions?

Some ways to plan ahead are:

- · decide before you go out how you will handle the situation
- · write down what you plan to eat
- · ask for help from a support person
- practice conversation such as: "I appreciate the offer, but I cannot eat any more," or "I will try some later," or "I will try a little bit."
- · bring food that fits your way of eating







SESSION

Moving to Stay Healthy

DM-EX Moving to Stay Healthy

STATEMENT OF PURPOSE

This session provides information about the role of physical activity in achieving and maintaining blood sugar target goals and provides the opportunity to make a physical activity plan.

PREREQUISITES

None

LEARNING OBJECTIVES

DM-EX1 List two or more benefits of regular physical activity. DM-EX2 State effects of physical activity on blood sugar. DM-EX3 Discuss kinds of physical activity. DM-EX4 Discuss time and frequency of physical activity. DM-EX5 Discuss simple ways to measure intensity of physical activity. DM-EX6 Discuss medical clearance issues for physical activity. DM-EX7 List one or more ways to stay safe during physical activity. DM-EXGS State or write a personal plan for physical activity. DM-EXGNS Behavior goal not set (follow-up). DM-EXGM Behavior goal met (follow-up). DM-EXGNM Behavior goal unmet (follow-up).

CONTENT

Physical activity

MATERIALS NEEDED

Visuals Provided

- #1 Taking Care of Yourself by Walking
- #2 Effort Scale
- #3 Target Heart Rates
- #4 Tips for Safe Physical Activity
- #5 Walking the Rez With a Purpose
- #6 Changes I Can Make

Additional

Physical activity logbooks

Step counters

Area resource list, including information about local programs

and facilities

Videotape of simple exercises

Audiotape of simple exercises

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative icebreaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to provide information about physical activity and to develop a personal plan for physical activity.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate the discussion. If possible, start the class with a walk, simple stretching, or an easy exercise videotape, using appropriate precautions for patients with diabetes complications or other health problems.

CONTENT OUTLINE

| Objective | Content | Educator's Notes |
|--|--|--|
| EX1. List two or more benefits of regular physical activity. | Physical activity has many benefits for the person with diabetes and their family. | Ask, "What are benefits of physical activity?" List responses. |

| Objective | Content | Educator's Notes |
|---|---|---|
| EX1. (continued) | These benefits include: • feeling better • increasing energy • coping with stress • lowering blood sugar • lowering blood pressure • lowering blood fats • losing weight • strengthening muscles and bones | Visual #1: Taking Care of Yourself by Walking |
| EX2. State effects of physical activity on blood sugar. | Physical activity can help to keep the blood sugar in the target goal range. It does this by: • decreasing insulin resistance (the body's insulin works better and body cells take in sugar more easily) • using more sugar for energy for the activity | Ask participants to share their observations of what their blood sugar does after physical activity. List responses. Visual #1: Taking Care of Yourself by Walking Insulin resistance is covered in Session 1. Check blood sugar before and after physical activity to see the effects on blood sugar levels. People have different blood sugar responses to different kinds of activity. Some people may report a high blood sugar or a low blood sugar after activity. Explore this individually with those participants. |
| EX3. Discuss kinds of physical activity. | Kinds of physical activity include: • walking • walking the dog • running • dancing • biking • raking leaves • chopping wood • swimming • skiing | Ask, "What are some kinds of physical activity? Which kinds do you enjoy the most?" List responses. Some jobs require a lot of physical activity, such as ranch work, construction, and digging. Visual #1: Taking Care of Yourself by Walking |

| Objective | Content | Educator's Notes |
|---|---|--|
| EX3. (continued) | snowshoeing People are more likely to do physical activity they enjoy. | Ask, "What are some physical activities going on in your community?" List responses. |
| | | Distribute local resource list. |
| EX4. Discuss time and frequency of physical activity. | The time and frequency of physical activity a person needs to do depends on their health goals for weight loss, blood sugar control, cardiovascular fitness, etc. | Visual #1: Taking Care of Yourself by Walking |
| | | Refer to current Surgeon General Guidelines for Physical Activity (see Supplemental Readings). |
| | The amount of time doing the activity is as important as the kind of activity to get benefits from the activity. | Physical activity is any non-stop activity that keeps a person moving fo more than 30 minutes, 5 or more days a week. Studies have shown that doing non-stop physical activity for 10 minutes 3 times a day, is as effective a doing it for 30 minutes all at one time |
| | | Other recommendations from health professionals promote 60 minutes of physical activity a day for cardiovascular health. |
| | Regular physical activity helps people burn more calories, even at rest. | Participants need to work with their health care provider, and possibly exercise specialists, on time and frequency. |
| | | Ask, "What has been easy/hard about fitting in physical activity? What helps you fit it into your day?" List responses. |
| | Plan physical activity for about the same time every day. This will make balancing diabetes medicine and/or snacks easier and more consistent. | Encourage participants to start their physical activity plans slowly. Slowly increase the time and frequency to prevent injury. |

| Objective | Content | Educator's Notes |
|---|--|--|
| EX5. Discuss simple ways to measure intensity of physical activity. | It generally is best to keep physical activity at a moderate intensity. | Intensity is how hard a person is working during an activity. If physical activity is too slow, people will not get the benefit to their hearts. If i |
| | | is too fast, it can be hard on the body and not be safe. |
| | There are several ways to measure intensity. One simple way to measure | Other tests to measure intensity include the Perceived Exertion Scale and the Target Heart Rate. • The Perceived Exertion Scale |
| | intensity is the "Talk Test": If a person can talk during physical activity they are working at a healthy intensity; if they are too winded to talk they are working too hard; if they can sing, they are not working hard enough. | goes from 0 (lying down at rest) to 10 (maximum exertion). A person is working at moderate intensity ithey are at a 4 or 5. Check level of perceived exertion on Visual #2: Effort Scale. To find the Target Heart Rate, take the pulse after physical activity. (Count the pulse for 10 seconds and multiply by six.) The target heart rate range for moderate intensity is 55% to 69% of the maximum heart rate. Check target heart rate on Visual #3: Target Heart Rates. Target heart rate may not be the best measure of intensity for people whose rate is affected by disease or medicine. See medical clearance issues below. Practice these tests with participants as appropriate. Participants need to work with their health care provider (and possibly exercise specialist) on their activity intensity. |
| EX6. Discuss medical clearance issues for physical activity. | People with diabetes need to talk to their health care provider before starting or changing physical activity, ifthey: • are over 35 years old • had diabetes longer than 10 years | Remind participants to check with their health care provider, especially if they already have problems. This can help them choose safe physical activities. |

| Objective | Content | Educator's Notes |
|---|--|--|
| EX6. (continued) | have diabetes complications, such as nerve damage (neuropathy), eye damage (retinopathy), heart disease, etc. have shortness of breath or chest pain have a disability | There are physical activity options for all people with diabetes. For example, chair exercises or water aerobics may be recommended if disability or complications are present. |
| EX7. List one or more ways to stay safe during physical activity. | There are things a person can do to stay safe during physical activity. They include: | Visual #4: Tips for Safe Physical Activity Ask, "What are some ways to stay safe during physical activity?" List responses. Planning ahead, checking blood sugar, and working with the diabetes care team will help achieve balance to keep blood sugar from going too low or too high during physical activity. |
| | balance physical activity with meals balance physical activity with diabetes medicine check blood sugar before and after physical activity start new physical activity | A dietitian can help people plan snacks for physical activity. |
| | slowly • begin each activity session with a 5-10 minute "warm- up," like stretches and walking in place • slow down before the activity is finished and end with a 5-10 minute "cool-down" | Warming up and cooling down helps prevent muscle cramps and injury. Assist participants with practice of "warm-ups" and "cool-downs." |
| | wear shoes and socks that fit well carry diabetes identification tell someone where they will be exercising and/or the route of the walk | Stress the importance of checking feet before and after physical activity. Participants might also carry coins or cell phones, if appropriate, to call for help in emergencies or have someone go with them. |

| Objective | Content | Educator's Notes |
|--------------------------------------|--|---|
| EX7. (continued) | avoid extremes of weather (heat or cold) drink plenty of water before and after physical activity | Distribute Visual #5: Walking the Rez With a Purpose |
| | people at risk for low blood sugar need to carry a sugar food or drink people with heart and eye disease need to avoid activities that make blood pressure go up people with nerve damage need to avoid activities that can make them unsteady or fall stop physical activity and get care right away if any of these happen: pain or pressure in chest or arm shortness of breath nausea or vomiting irregular heart beat feling very tired | Low blood sugar is covered in Session 9. Examples are heavy lifting, straining, weight lifting, high impact aerobics and racquet sports. |
| EXGS. State or write a | feeling lightheaded or faint Making changes in health habits, | Viewal #6: Chawaaa I Can Maka |
| personal plan for physical activity. | such as doing physical activity, is easier when plans are broken down into small, easy-to-do steps. | Visual #6: Changes I Can Make |
| | Tips for staying with a physical activity program include: • choosing enjoyable activities • starting slowly and increasing gradually • doing physical activity with a family member or friend • setting aside the same time each day for physical activity | Ask participants to share successful and unsuccessful activities they have tried. What helped and what did not help? |

| Objective | Content | Educator's Notes |
|-------------------|---|---|
| EXGS. (continued) | joining a physical activity group or class planning activities for good and bad weather writing down the physical activity that was done rewarding oneself when a physical activity goal is achieved | Show examples of physical activity logbooks. Show examples of step counters. Participants can use these to monitor progress toward goals. Seeing the steps add up can be rewarding and help people keep doing the activity. Have participants write or state one thing they can do for physical activity. See Session 3: Making Healthy Changes. |

SKILLS CHECKLIST

Each participant will be able to make a plan for physical activity.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by identifying at least one change to make for physical activity. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.







It will soon be time for the mid-summer community powwow and walk/run. You have been following your walking plan pretty well for the past 6 months, usually walking for 20-30 minutes 4 or 5 days a week inside a mall near your home. This year you want to do the 6-mile outdoor course at the upcoming walk/run. You have never walked this far before, but you feel like you can do it. One of your friends, who also has diabetes, has been doing the 6-mile course for the past few years. He is encouraging you to do it.

| What intensity of physical activity do you plan to do for the comm walk? How will you measure your intensity level during the walk. What would you do to walk safely during the community walk? |
|--|
| What would you do to walk safely during the community walk? |
| What would you do to walk safely during the community walk? |
| |





It will soon be time for the mid-summer community powwow and walk/run. You have been following your walking plan pretty well for the past 6 months, usually walking for 20-30 minutes 4 or 5 days a week inside a mall near your home. This year you want to do the 6-mile outdoor course at the upcoming walk/run. You have never walked this far before, but you feel like you can do it. One of your friends, who also has diabetes, has been doing the 6-mile course for the past few years. He is encouraging you to do it.

Do you think you need to check with your health care provider before you do this walk? Why
or why not?

People with diabetes need to talk to their health care provider before starting or changing physical activity, if they are over 35 years old, had diabetes longer than 10 years, have diabetes complications—such as nerve damage, eye damage, heart disease, etc., have shortness of breath or chest pain and/or have a disability.

What intensity of physical activity do you plan to do for the community walk? How will you measure your intensity level during the walk?

The level of intensity a person is trying to achieve depends on their health goals. Generally, it is best to keep physical activity at a moderate level. If it is too slow, you will not get the benefit to your heart. If it is too fast, it may be hard on the body and not safe for some people. There are several ways to measure the intensity of physical activity, including the Talk Test, the Perceived Exertion Scale and Target Heart Rate.

3. What would you do to walk safely during the community walk?

There are many things people can do to stay safe during physical activity, including balancing physical activity with meals and medicine, carrying sugar, checking blood sugar before and after activity, starting the activity, slowly, warming up before and cooling down after, wearing socks and shoes that fit well, carrying diabetes identification, avoiding extremes of weather (heat and cold) and drinking plenty of water before and after activity (and during activity during hot weather). Plan ahead to increase your walking distance slowly over time. Practice with your friend before the walk/run. You can start the walk/run at the back of the group so you will not feel like you have to go fast. To stay safe, people also need to stop activity and get help right away if they have pain or pressure in their chest or arm, shortness of breath, nausea or vomiting, irregular heart beat, fatigue, light-headedness or faintness.



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SESSION

6 Diabetes Medicine

DM-M
Diabetes Medicine—
Overview and
Diabetes Medicines
DM-IN
Diabetes Medicine—
Insulin

STATEMENT OF PURPOSE

This session provides an introduction to the use of diabetes medicine in the diabetes treatment plan, including their purpose, action, use and side effects.

PREREQUISITES

It is recommended that participants have basic knowledge about the pathophysiology of diabetes. Instructors need to assess participant treatment plans and present material appropriate for those medicines they are currently taking. Only those participants currently taking insulin, or about to start insulin therapy, should complete the insulin section.

LEARNING OBJECTIVES

Section 1: Overview

DM-M1 Discuss the role of diabetes medicines in the overall diabetes treatment plan.

DM-M2 State 2 or more reasons for adding or changing diabetes medicines.

DM-M3 State the importance of checking blood sugar more often when medicines are changed.

DM-M4 State the importance of taking medicines as prescribed.

DM-M5 State 2 or more guidelines for when to contact a health care provider about medicine.



DM-M6 Discuss the role of alternative treatments for diabetes and how they affect blood sugar (including herbal, traditional healing methods, and over-the-counter medicines).

DM-MGS State or write a personal plan for taking diabetes medicine.

DM-MGNS Behavior goal not set (follow-up).

DM-MGM Behavior goal met (follow-up).

DM-MGNM Behavior goal unmet (follow-up).

Section 2: Diabetes Medicines

DM-M7 State the names of their diabetes medicines, how much to take, when to take them, how they work and possible side effects.

DM-MGS State or write a personal plan for taking diabetes medicine.

DM-MGNS Behavior goal not set (follow-up).
DM-MGM Behavior goal met (follow-up).
DM-MGNM Behavior goal unmet (follow-up).

Section 3: Insulin

DM-IN1 Discuss how insulin works to control blood sugar in people with type 2 diabetes.

DM-IN2 Describe the types of insulin they use, names of the insulin, how they work, how much to take and when to take them.

DM-IN3 Identify insulin injection sites.

DM-IN4 Demonstrate proper technique for withdrawing and injecting insulin.

DM-IN5 Discuss the proper storage of insulin.

DM-IN6 Discuss the proper disposal of insulin syringes and other sharps.

DM-IN7 Discuss the major side effect of taking insulin.
DM-INGS State or write a personal plan for using insulin.

DM-INGNS Behavior goal not set (follow-up).

DM-INGM Behavior goal met (follow-up).

DM-INGNM Behavior goal unmet (follow-up).

CONTENT

Medicine

MATERIALS NEEDED

Section 1: Overview Visuals Provided

#1 Actions of Diabetes Medicines in the Body

Section 2: Diabetes Medicines

Visuals Provided

- #1 Actions of Diabetes Medicines in the Body
- #2 Diabetes Medicines
- #3 Medicine Sheet

- #4 Two Men, Two Stories of Diabetes and Strength
- #5 Wallet Card Template
- #6 Changes I Can Make

Additional

Body apron

Samples of different diabetes medicines, such as:

- bubble packs pasted on board
- · individual pills taped on paper/board
- · photographs of medicines

Sample medicine containers, such as:

- · actual medicine bottles
- · photographs of medicine bottles
- · sample injection devices
- prescription labels

Samples of medicine organizers

Diabetes identification information

Wallet card to list medicines

Section 3: Insulin

Visuals Provided

- #3 Medicine Sheet
- #6 Changes I Can Make
- #7 Pancreas
- #8 Basal and Bolus Insulin
- #9 Comparison of Insulins
- #10 Insulin Action Times
- #11 Injection Sites
- #12 Giving an Insulin Injection
- #13 Diabetes and Insulin

Additional

Samples of bottles/boxes for all types of insulin (actual or photographs)

Alcohol swabs

Samples of syringes

Samples of injection devices

Samples of insulin carrying packs

Samples of sharps disposal containers

Diabetes identification information

Insulin start kit

Local sharps disposal information



Start by introducing yourself. Use a creative ice breaker. (See Introduction p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to provide information about diabetes medicines and how they work.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate the discussion. A videotape may also be shown to introduce content if available.

The overview learning objectives are appropriate for all participants, regardless of current diabetes medicine use. Present other content as appropriate based on the educational needs assessment, including current diabetes medicine used. Actual insulin injection technique needs to be taught individually.

CONTENT OUTLINE

Section 1: Overview

| Objective | Content | Educator's Notes |
|--|---|---|
| Introduction | In type 2 diabetes, the pancreas makes insulin, but these things may happen: • the insulin does not work well (body cells may not allow insulin to do its work; this is insulin resistance) • the pancreas may not make enough insulin • some people may not make enough insulin and their insulin does not work well These changes lead to high blood sugar. | Basic pathophysiology is covered in Session 1. |
| M1. Discuss the role of diabetes medicines in the overall diabetes treatment plan. | Diabetes medicines help lower blood sugar. | Visual #1: Actions of Diabetes Medicines in the Body Diabetes medicines do not take the place of making healthy food choices and staying active. People may be able to take less medicine if they change some food choices and are more active. |

| Objective | Content | Educator's Notes |
|-----------------|--|--|
| M1. (continued) | Diabetes medicines cannot work alone. They work best when a person: | |
| | makes healthy food choices | Eating healthy includes eating smaller portions, more fruits and vegetables, less high fat foods and less sugar foods and drinks. |
| | • is physically active | Walking for 30 minutes or more 5 or more days a week is a way to be more active. |
| | stays at a healthy weight | Eating healthy and being more active will help people with their weight. People who lose 5-10 pounds or 5-10% of body weight, can sometimes lower the amount of medicines they take. Others can sometimes stop taking medicine after weight loss. |
| | There are different types of diabetes medicines. Health care providers choose which type to use based on a person's: | Ask, "What diabetes medicine are you taking? How long have you been taking it? Have you ever been on any other medicine for diabetes?" List responses. |
| | • age | Some diabetes medicines cannot be used, need to be used with caution and or need dosages adjusted for children or elderly people. |
| | • weight | Some diabetes medicines also decrease appetite and can help with weight loss. |
| | how long they had diabetes | More medicines may be needed the longer someone has diabetes. |
| | blood fat numbers | Some diabetes medicines also lower blood fats. |
| | liver, kidney and heart test results | Some medicines cannot be used, or need to be used with caution, for |

| Objective | Content | Educator's Notes |
|--|--|--|
| M1. (continued) | diabetes medicines used in the past | people with liver, kidney or heart problems. |
| | current blood sugar and target goal | Types and dosages vary depending on how much blood sugar needs to be lowered to reach target goal. |
| | other medicines taken | Emphasize the need to tell the health care provider about herbal medicine and alcohol use. |
| | how well a person can participate in their diabetes care | and alcohol use. |
| M2. State 2 or more reasons for adding or changing diabetes medicines. | Some reasons for adding or changing diabetes medicines are: | Ask, "Has anyone had their medicine changed recently? Why?" List responses. |
| | blood sugar is not at target goal | There may be more than one reason for the high blood sugar. |
| | there is a change in eating, activity, weight or stress | In type 2 diabetes, healthy eating, physical activity and losing weight may be enough to lower blood sugar when a person first finds out they have diabetes. |
| | the body is making less insulin | Over time, body changes may lead to less insulin being made or more insulin resistance. |
| | insulin resistance worsens | Review pathophysiology of diabetes related to insulin resistance and insulin secretion as appropriate. |
| | other medicines are making blood sugar too high or too low new health problems or illness | insulii seerenoii as appropriate. |
| | there are side effects from medicines | Ask, "Has anyone had problems with their diabetes medicine? If so, what?" List responses. |
| | Taking more than one diabetes medicine is called combination | Ask, "Is anyone taking more than one diabetes medicine?" List responses. |



| Objective | Content | Educator's Notes |
|---|---|--|
| M2. (continued) | therapy. Combination therapy includes: • more than one kind of diabetes medicine • diabetes medicine(s) and insulin | Some people need to take 2 kinds of insulin to reach their target goals. |
| M3. State the importance of checking blood sugar more often when medicines are changed. | It is important to check blood sugar more often when changing diabetes medicines. Home blood sugar records can show: • if a person is reaching target blood sugar goals • times blood sugar is too high or too low Diabetes medicine is adjusted or changed until the target blood sugar goal is reached. | Review target blood sugar goals. Review role of food choices and physical activity in achieving target goals. Remind participants that medicines take some time to work. Review home blood sugar and A1c monitoring options. |
| M4. State the importance of taking medicines as prescribed. | People need to take their medicines at the time they and their health care provider decide is best for them. Taking medicine at the right time helps: the medicine work best to help blood sugar reach and stay at target goals reduce the chances of side effects from the medicine How much and how often medicines need to be taken depends on: how long they work in the body how well the body uses them | Talk to the health care provider if the time(s) a person is supposed to take medicine is not fitting into their schedule. It is important not to take medicines only when a person thinks their blood sugar is high. For example, low blood sugar is less likely to happen if medicines are taken as prescribed. Almost all medicines stay in the body between 6 and 24 hours. Exceptions are: • Chlorpropamide (Diabinese) stays in the body for 48 hours |

| Objective | Content | Educator's Notes |
|-----------------|--|--|
| M4. (continued) | Medicine works best if taken about the same time every day. | Repaglinide (Prandin) and Nateglinide (Starlix) stay in the body for 2 hours |
| | | Some diabetes medicines need to be taken at meal time. |
| | These are things a person can do to remember to take medicine: • take them about the same time | Ask, "What helps you remember to take your medicine?" List responses. |
| | each day | Talk to a health care provider about what to do if a person forgets their diabetes medicine. |
| | take them with other medicine or when doing a routine activity, such as brushing teeth, watching the news, going to bed, etc. | Putting a new behavior together with something a person is already doing increases the chances they will do the new behavior. |
| | keep medicine in plain sight or close to where it will be used | |
| | think about times that are hard to remember and give self- reminders | For example, if it is hard to remember a medicine at lunchtime, put a note in the lunch box or set an alarm. For diabetes pills, try filling a pill organizer with pills |
| | There are other things to do to take medications safely: | for the day or week. Show sample. |
| | do not take anyone else's medicine | Do not give a person someone else's medicine. (Be sure to keep medicine out of reach of children.) |
| | learn the name of the medicine taken, including how much and how often | Visual #5: Wallet Card Each person can keep a list of their medicines. |
| | | Suggest participants bring medicine to health care provider visits, including over-the-counter medicine, herbal medicine and supplements. |
| | read the label when getting medicine from the pharmacy | Show these points on samples of medicine. Check with the pharmacist |

| Objective | Content | Educator's Notes |
|--|---|--|
| M4. (continued) | Check the name, dose and times it is taken | if the name is correct but the medicine is a different size, shape or color. |
| | do not use medicines that have expired | Point out the expiration date on sample medicine bottles. |
| | do not use medicines that have changed colors | Discuss local policies for discarding old or unusable medicines. Some medicines may change color if they are exposed to heat, light, or humidity. It is important to keep medicines in a tightly closed container. |
| | learn how to get more medicine when needed | Provide local guidelines for medicine refill. |
| | use the same pharmacies and health care providers whenever possible for your medicine | This will help a person avoid harmful drug interactions. |
| M5. State 2 or more guide- lines for when to contact a health care provider about medicine. | People taking diabetes medicines need to contact their health care provider if: • blood sugar is too high or too low | Talk to a health care provider about guidelines for reporting high and low blood sugar and side effects. |
| | they are having side effects from the medicine | Side effects may include an unpleasant taste in the mouth, diarrhea, nausea, vomiting, loss of appetite, abdominal discomfort, skin rash or itching, dizziness, flushing or low blood sugar. Refer to side effects information for diabetes medicines and insulin below. |
| | • they are ill | Sick Day Guidelines are covered in Session 9. |
| | medicines are old or change color | See Objective M4. |
| | they need help with medicines during travel | Always keep medicines with people when they travel. Do not keep them in a |

| Objective | Content | Educator's Notes |
|--|--|--|
| M5.(continued) | they plan to take any new medicine, including over-the- counter and herbal medicines | suitease. Take enough for the trip plus extra. A prescription and/or doctor's letter is helpful and sometimes required. |
| | they are planning a sweat, fast or other ceremony that may affect their eating, sleeping or activity pattern | Visual #4: Two Men, Two Stories of Diabetes and Strength |
| | they are not taking their medicine | Encourage participants to tell their health care provider why they are not taking their medicine. |
| | they become pregnant | Women who are pregnant, breastfeeding or planning to become pregnant should not take some diabetes medicines. They may be harmful to the baby. Women can talk to a health care provider about their diabetes medicine. |
| M6. Discuss the role of alternative treatments for diabetes and how they affect blood sugar (including herbal, | Herbal products and "natural" remedies may cause blood sugar to go too high or too low and/or work with other medicines a person takes in a harmful way. | Talk to a health care provider and/or pharmacist about the use of these products. |
| traditional healing methods and over-the-counter medicines). | Some over-the-counter cold medicines may cause high or low blood sugar, especially in people who use insulin. | Many products, including liquid medicines, contain sugar and/or alcohol. Show samples and point out ingredients on label. Alcohol can block the action of diabetes medicine and/or work in the body for a long time to lower blood sugar. There are many sugar and alcohol-free products now available. Show samples. These products may cost more, but if used in small amounts this is probably not a concern. |

| Objective | Content | Educator's Notes |
|---|---|--|
| M6. (continued) | Many other over-the-counter medicines can cause problems with blood sugar levels. | Remind participants to check blood sugar often when they need to take over-the-counter medications. It is generally okay to use medicines for 3 days, but they need to contact a health care provider for advice if they are not better in 3 days or if blood sugar is high or low. You may want to work with a facility pharmacist to make a visual of locally available over-the-counter medicines. |
| | There are traditional ways to treat diabetes. It is important to discuss traditional methods used with the health care provider so they can be used together with "western" treatments in the most helpful way. | If you are not sure about local traditions, ask if some content needs to be discussed. Some traditional methods are safe if "western" treatments are continued. |
| MGS. State or write a personal plan for taking diabetes medicine. | Making changes in health habits, such as taking medicines, is easier when plans are broken down into small, easy-to-do steps. | Visual #6: Changes I Can Make Assist participants to make a personal plan for taking diabetes medicine. |
| | зерз. | See Session 3: Making Healthy Changes |

Section 2: Diabetes Medicines

| Objective | Content | Educator's Notes |
|---|--|---|
| M7. State the names of their diabetes medicines, how much to take, when to take, how they work and possible | Overview: | Assist participants to meet learning objective verbally and/or by completing Visual #4: Medicine Sheet. |
| side effects. | Diabetes medicines are taken to lower blood sugar. Some diabetes medicines are pills taken by mouth and others are injected (including insulin). | Visual #2: Diabetes Medicines'and Visual #1: Action of Diabetes Medicines in the Body show samples of different medicines. |

| Objective | Content | Educator's Notes |
|-----------------|--|---|
| M7. (continued) | There are different types of diabetes | You can use the body apron throughout |
| | medicines. Each type lowers blood | this section to show where diabetes |
| | sugar in a different way. | medicines act in the body. Assist |
| | The types of diabetes medicines are: | participants with pronunciations: |
| | sulfonylureas | "SUL-fah-nil-YOO-ree-ahz" |
| | meglitinides | "meh-GLIT-in-idz" |
| | biguanides | "by-GWAN-idz" |
| | alpha-glucosidase inhibitors | "Al-fa-gloo-KOS-ih-days in-HIB-it- |
| | | erz" |
| | thiazilidinidiones (glitazones) | "THIGH-ah-ZO-li-deen-DYE-ownz" or |
| | | "GLIT-ah-ZOWNZ" |
| | incretin mimetic | "IN-creet-in MIM-e-tik" |
| | DPP-4 inhibitor | "D-P-P for in-HIB-it-er" |
| | amylin analog | "AM-a-lyn AN-a-log" |
| | - amymranaiog | Alvi-a-iyii Alvi-a-log |
| | Sulfonylureas: | Ask, "Is anyone taking one of the |
| | | sulfonylureas?" (Say the names of the |
| | Sulfonylureas help the pancreas make | different sulfonylureas.) |
| | more insulin. | unicion surony rucus. |
| | Sulfonylureas can be used alone or | Visual #1: Actions of Diabetes |
| | with other medicines. Remember that | Medicines in the Body and/or show |
| | continuing healthy food choices and being active will help all diabetes | samples of different medicines. |
| | medicines work better. | Discuss the action of sulfonylureas in the |
| | medicines work better. | |
| | | body and how they help. Review |
| | It may take 2 or more days before | pathophysiology of diabetes related to |
| | sulfonylureas begin to show changes | insulin secretion and insulin resistance as |
| | in the blood sugar. | appropriate. |
| | There are many different | Visual #2: Diabetes Medicines |
| | sulfonylureas. They are not exactly | You may want to discuss the |
| | the same and cannot be used in place | sulfonylureas available in your pharmacy |
| | of each other | Say each name so participants hear how |
| | or each other. | it is pronounced (use brand name and |
| | | generic name). |
| | Sulfonylureas have some side effects. | Review recognition, prevention and |
| | They include: | treatment of low blood sugar. |
| | low blood sugar | These pills need to be used with caution |
| | | |
| | • weight gain | in some elderly people and people with |
| | • rash | liver damage. |
| | | |



| Content | Educator's Notes |
|--|--|
| Meglitinides: Meglitinides help the pancreas to release insulin after a meal. | Ask, "Is anyone taking repaglinide (Prandin) or nateglinide (Starlix)?" Visual #1: Action of Diabetes Medicines in the Body and/or show samples of different medicines. |
| They work faster than sulfonylureas and do not last as long. They help lower your blood sugar after you eat a meal or snack. | Discuss the action of meglitinides in the body and how they help. Review pathopysiology of diabetes related to insulin secretion and insulin resistance as appropriate. |
| | Taking these medications without eating can cause your blood sugar to go too low |
| Repaglinide (Prandin) and nateglinide (Starlix) are the 2 meglitinides available. | Visual #2: Diabetes Medicines Say each name so participants hear how is pronounced (use the brand name and generic name). |
| They can be used alone or combined with other diabetes medicines. | Remind participants that continuing healthy food choices and being active wil help all diabetes medicines work better. |
| They should only be taken when eating. To work best, they need to be taken 15 minutes before each meal or snack. These pills keep working for 1-2 hours. | They work to lower high blood sugar after meals. Do not take them if a meal is missed or skipped. |
| Meglitinides have some side effects. They include low blood sugar and interactions with other medicines | Review recognition, prevention and treatment of low blood sugar. |
| includios wattouch includes. | These pills should not be taken with alpha-glucosidase inhibitors. |
| | They need to be used with caution by elderly people and people with liver damage. |
| | Meglitinides: Meglitinides help the pancreas to release insulin after a meal. They work faster than sulfonylureas and do not last as long. They help lower your blood sugar after you eat a meal or snack. Repaglinide (Prandin) and nateglinide (Starlix) are the 2 meglitinides available. They can be used alone or combined with other diabetes medicines. They should only be taken when eating. To work best, they need to be taken 15 minutes before each meal or snack. These pills keep working for 1-2 hours. Meglitinides have some side effects. |

| Objective | Content | Educator's Notes |
|-----------------|--|--|
| M7. (continued) | Biguanides: Biguanides help to: • keep the liver from releasing sugar into the blood • reduce insulin resistance by making body cells more sensitive to insulin | Ask, "Is anyone taking metformin (Glucophage)?" Visual #2: Diabetes Medicines and Visual #1: Action of Diabetes Medicines in the Body and/or show samples of different medicines. Discuss the action of biguanides in the body and how they help. Review pathophysiology of diabetes related to insulin secretion and insulin resistance as appropriate. Metformin may also lower cholesterol (blood fats). |
| | Metformin (Glucophage) is the name of the biguanide available. | Visual #2: Diabetes Medicines Say the name so participants hear how it is pronounced (use the brand name and generic name). |
| | Metformin can be used alone or combined with other medicines. | Metformin can be added to other medications. Sometimes adding metformin can help the other medications work better. Remind participants that continuing healthy food choices and being active will help all diabetes medicines work better. |
| | Metformin has side effects. They include: | Metformin does not cause weight gain as sulfonylureas do. |
| | nausea diarrhea | Gastrointestinal side effects may be decreased by: • starting the medicine at a low dose • increasing the amount slowly • taking pills with meals The gastrointestinal side effects usually go away after a couple weeks. Tell a health care provider if they do not go away. |

| Objective | Content | Educator's Notes |
|-----------------|--|---|
| M7. (continued) | unpleasant metallic taste in mouth possible interactions with other medicines chance for lactic acidosis | |
| | Binge drinking or drinking too much alcohol can make people sick when they are taking metformin. People with liver or kidney damage or heart failure should not take metformin. | Lactic acidosis is a buildup of lactic aci in the blood. It is rare but can be very serious. Lactic acidosis is more likely to happen when people drink alcohol or have liver or kidney disease. People wi are having surgery or medical tests with contrast dyes will need to stop their |
| | Alpha-glucosidase inhibitors: | metformin. Discuss these situations with a health care provider. Ask, "Is anyone taking acarbose |
| | | (Precose) or miglitol (Glyset)?" |
| | This type of diabetes pill slows down the amount of carbohydrates absorbed in the intestine. This slows the blood sugar rise after eating. | Visual #1: Action of Diabetes Medicines in the Body and/or show samples of different medicines. |
| | | Discuss the action of alpha-glucosidase inhibitors in the body and how they hel Review pathophysiology of diabetes related to insulin secretion and insulin resistance as appropriate. |
| | Acarbose (Precose) and miglitol (Glyset) are the names of the alphaglucosidase inhibitors available. | Visual #2: Diabetes Medicines Say each name so participants hear ho it is pronounced (use the brand name and generic name). |
| | They can be used alone or combined with some other diabetes medicines. | Remind participants that continuing healthy food choices and being active will help all diabetes medicines work better. |
| | They need to be taken with the first bite of food at a meal. They start working right away. | This diabetes pill only affects the after- meal blood sugar. Do not take these pills if a meal is missed or skipped. |

| Objective | Content | Educator's Notes |
|-----------------|--|---|
| M7. (continued) | Alpha-glucosidase inhibitors have side effects. They include: • bloating • gas • diarrhea | Side effects may be decreased by increasing the dose slowly. The side effects usually stop after 6 months. Low blood sugar is not a risk if used |
| | • drainea | alone. If taking acarbose or miglitol with a sulfonylurea, low blood sugar can happen. This low blood sugar should not be treated with products that contain sucrose (such as hard candy or juice). Use milk or glucose tablets instead. Stress the need for participants to make a plan for treating low blood sugar when taking an alpha-glucosidase inhibitor. |
| | Thiazolidinidiones (glitazones): | Ask, "Is anyone taking a glitazone?" |
| | Glitazones help lower blood sugar by making body cells more sensitive to insulin (decreasing insulin resistance). | Visual#1: Actions of Diabetes Medicines in the Body and/or show samples of different medicines. Discuss the action of glitazones in the body and how it helps. Review pathophysiology of diabetes related to insulin secretion and insulin resistance as appropriate. |
| | | These pills may lower blood fats. |
| | Rosiglitazone (Avandia) and pioglitazone (Actos) are the names of the glitazones available. | Visual#2: Diabetes Medicines Say each name so participants hear how it is pronounced (use the brand name an generic name). |
| | Glitazones can be used alone or combined with other diabetes medicines. | Remind participants that continuing healthy food choices and being active wil help all diabetes medicines work better. |
| | These medicines can take 2-6 weeks to start working to lower blood sugar. | Stress the importance of checking blood sugar often. |
| | Glitazones have side effects. They include: • weight gain | Weight gain, leg swelling or shortness of breath need to be reported to the health care provider right away. These pills |



| Objective | Content | Educator's Notes |
|-----------------|---|---|
| M7. (continued) | leg swelling shortness of breath | have been associated with making congestive heart failure worse. |
| | liver problems | Report any signs of liver problems such a jaundice (yellowing of skin and eyes), nausea and vomiting, stomach pain and/o dark urine to a health care provider right away. |
| | People taking glitazones need a blood test for liver function before starting these medicines and then every other month for the first year. | Stress the importance of these blood tests for the participants' safety. |
| | Incretin Mimetic: | Ask, "Is anyone taking Exenatide (Byetta)? |
| | An incretin mimetic helps lower blood sugar by: • helping the body make more insulin after eating | Visual #1: Actions of Diabetes Medicines in the Body and/or show samples of different medicines. |
| | lowering the amount of glucose made in the body making a person feel full after eating by slowing the emptying of the stomach | Discuss the action of incretin mimetic in the body and how it helps. Review pathophysiology of diabetes related to insulin secretion and insulin resistance as appropriate. |
| | Exenatide (Byetta) is the name of the incretin mimetic that is available. | Visual #2: <i>Diabetes Medicines</i> Say each name so participants hear how is pronounced (use the brand name and generic name). |
| | Exenatide is an injection that is given by using a pen device. | This is a diabetes medicine that is not insulin, but is given by injection. |
| | | Provide information on non-insulin injectable diabetes medicines, as appropriate to the participants' learning needs and local facility policies and recommendations. |
| | | Instruct patients to make sure that they also get a prescription for the pen needles when seeing their provider. |

| Objective | Content | Educator's Notes |
|-----------------|---|--|
| M7. (continued) | | Remind participants that continuing healthy food choices and being active will help all diabetes medicines work better. |
| | Exenatide can be used with metformin, a sulfonylurea, a thiazolidinedione or a combination of oral medications. | Because of the slowing effect on stomach emptying, the timing or some medicines will need to be adjusted. |
| | Exenatide has some side effects. They include: | |
| | nausea vomiting diarrhea reduced appetite | The gastrointestinal side effects usually go away after a couple weeks. Tell a health care provider if they do not go away. |
| | • low blood sugar | Review recognition, prevention, and treatment of low blood sugar. Low blood sugar can result if exenatide is used in combination with a sulfonylurea. |
| | Exenatide may cause weight loss. | Some people may lose up to 8 or 10 pounds while taking Exenatide. |
| | People with severe kidney damage or women who are pregnant should not take Exenatide. | |
| | Keep Exenatide in the refrigerator when not opened. Once opened, it may be kept at room temperature. | Inform patients that Exenatide and other medications should not be stored in direct sunlight and that Exenatide must be discarded after 30 days, even if the pen is not empty. |
| | DPP-4 Inhibitor: | Ask, "Is anyone taking Sitagliptin (Januvia)? |
| | A DPP-4 inhibitor helps lower blood sugar by: • helping the body make more insulin after eating | Visual#1: Actions of Diabetes Medicines in the Body and/or show samples of different medicines. |
| | lowering the amount of glucose made in the body making a person feel full after eating by slowing the emptying of the stomach | Discuss the action of DPP-4 in the body and how it helps. Review pathophysiology of diabetes related to insulin secretion and insulin resistance as appropriate. |

| Objective | Content | Educator's Notes |
|-----------------|---|--|
| M7. (continued) | Sitagliptin (Januvia) is the name of the DPP-4 inhibitor that is available. | Visual #2: Diabetes Medicines Say each name so participants hear how is pronounced (use the brand name and generic name). |
| | Sitagliptin is a pill taken by mouth. | Remind participants that continuing health food choices and being active will help all diabetes medicines work better. |
| | Sitagliptin can be used with metformin, a sulfonylurea, a thiazolidinedione or a combination of oral medications. | Because of the slowing effect on stomach emptying, the timing or some medicines will need to be adjusted. |
| | Sitagliptin has some side effects. They include: | Be sure to talk to your doctor if you get arash. |
| | • low blood sugar | Review recognition, prevention, and treatment of low blood sugar. Low blood sugar can result if exenatide is used in combination with a sulfonylurea. |
| | upper respiratory infection stuffy or runny nose or sore throat | |
| | diarrhea | The gastrointestinal side effects usually go away after a couple weeks. Tell a health care provider if they do not go away. |
| | People with kidney damage may need to take less Sitagliptin. | There is no or minimal weight change with Sitagliptin. |
| | AmylinAnalog: | Pramlintide (Symlin) is the name of the amylin analog that is available. |
| | Amylin analog may make a person feel full faster when eating a meal. Amylin analog only works in people who have diabetes. | Discuss the action of amylin analog in the body and how it helps. Review pathophysiology of diabetes related to insulin secretion and insulin resistance as appropriate. |

| Objective | Content | Educator's Notes |
|-----------------|--|---|
| M7. (continued) | Pramlintide (Symlin) is the name of an amylin analog. | Visual #2: Diabetes Medicines Say each name so participants hear how it is pronounced (use the brand name and generic name). |
| | Amylin analog should only be taken if you are also using insulin. | Remind participants that continuing healthy food choices and being active will help all diabetes medicines work better. |
| | Nausea is the most common side effect of Pramlintide, and it may cause weight loss. | This medication must be used carefully in people who have problems with their stomachs. Talk to your provider about any stomach problems you may have. |
| | Keep Pramlintide in the refrigerator when not opened. Once opened, it may be kept at room temperature. | . , , |
| | Pramlintide is an injection that is given by using a pen device. | This is a diabetes medicine that is not insulin, but is given by injection. |
| | | Provide information on non-insulin injectable diabetes medicines, as appropriate to the participants' learning needs and local facility policies and recommendations. |
| | | Instruct patients to make sure that they also get a prescription for the pen needles when seeing their provider. |
| | | While always used with insulin, Pramlintide cannot be mixed with insulin and must be given as a separate injection. |
| | | Because of the slowing effect on stomach emptying, the timing or some medicines will need to be adjusted. |
| | | Note: Educators need to find out what medicines are available in their local facility and gather more information on those medicines. Information on |



| Objective | Content | Educator's Notes |
|---|--|---|
| M7. (continued) | | medicines and their use may change frequently, so it is important for the educator to continually update his/her knowledge. |
| MGS. State or write a personal plan for taking diabetes medicine. | Making changes in health habits, such as taking diabetes medicines, is easiet when plans are broken down into small, easy-to-do steps. | Visual #6: Changes I Can Make Have each participant state or write one thing they will do to take their diabetes medicines. See Session 3: Making Healthy Changes |

Section 3: Insulin

| Objective | Content | Instructor's Notes |
|---|--|---|
| IN1. Discuss how insulin works to control blood sugar in people with type 2 | Insulin is a hormone that is made in the pancreas. | Visual #7: Pancreas |
| diabetes. | Insulin lowers blood sugar by allowing sugar to enter body cells. | Visual #13: Diabetes and Insulin |
| | In people without diabetes, the body makes a steady amount of insulin throughout the day. | Visual #8: Basal and Bolus Insulin This is basal insulin. |
| | As soon as a person eats, the pancreas supplies the body with a burst of insulin to take care of the sugar from the food. | This is bolus insulin. |
| | Most people with type 2 diabetes still make some insulin. They may not make enough insulin if they have had diabetes for a long time. Extra insulin may be needed to move insulin into the blood cells. | People with type 2 diabetes may take different kinds and amounts of insulin to reach blood sugar goals. |
| | Taking insulin is one way for people with type 2 diabetes to get enough insulin to keep their blood sugar in target range. | |
| | | Insulin cannot be given as a pill because it is destroyed in the stomach. |



| Objective | Content | Educator's Notes |
|--|---|---|
| IN2. Describe the types of insulin they use, the insulin's name, how they work, how much to take | | Assist participants to meet learning objective verbally and/or by completing Visual #4: Medicine Sheet. |
| and when to take them. | The different types of insulin are: • very fast acting | Visual#13: Diabetes and Insulin |
| | fast acting long acting very long acting | Ask, "What kind of insulin do you take?" List responses. |
| | steady, very long acting | Onset is when it starts working, peak is when it is working most to lower blood |
| | Each kind of insulin has a different onset, peak, and length of action. | sugar and length of action is how long it keeps working. |
| | The different kinds of insulin copy how basal and bolus insulin works in people without diabetes | Visual #10: Insulin Action Times |
| | Very fast acting insulin: • acts like bolus insulin | Visual #9: Comparison of Insulins |
| | lowers blood sugar right after a meal begins to work 5-15 minutes after it is given lowers blood sugar most ½-1 hour after it is given keeps working 3-4 hours | Very fast acting insulin works well for people who do not eat at regular times. |
| | Lispro (Humalog), Aspart (Novalog) and Glulisine (Apidra) are the names of the very fast acting insulins available. | Say each name so participants hear how it is pronounced. |
| | Very fast acting insulin is given just before eating a meal. | It is important to check blood sugar before a person eats to know how much Lispro, Aspart, or Glulisine to take. |

| Objective | Content | Educator's Notes |
|------------------|---|--|
| IN2. (continued) | Fast acting insulin: acts like bolus insulin, but it is not as quick as very fast acting insulin lowers blood sugar after a meal begins to work 30 minutes after it is given lowers blood sugar most 2-4 hours after it is given keeps working for 6-8 hours | Visual #9: Comparison of Insulins |
| | Regular (Humulin R, Novolin R, Velosulin Human) is the name of fast acting insulins available. | Say each name so participants hear how it is pronounced. |
| | Fast acting insulin is given 30 minutes before eating a meal. | |
| | Long acting insulin: | Visual #9: Comparison of Insulins |
| | NPH (Humulin, Novulin) and Lente (Humulin, Novulin) are the names of long acting insulins available. | Say each name so participants hear hit is pronounced. |
| | People with type 2 diabetes may take the long acting insulin in the morning and evening and/or before bedtime. | Lente is not used very often in people with type 2 diabetes. |
| | It is important to time meals and snacks to prevent low blood sugar reactions. | Review prevention, recognition and treatment of low blood sugar. |
| | | |



| Objective | Content | Educator's Notes |
|------------------|---|---|
| IN2. (continued) | Very long acting insulin: • acts like basal insulin • gives a slow dose of insulin for a long time • begins to work 4-6 hours after it is given • works the most to lower blood sugar 8-14 hours after it is taken • keeps working for 18-24 hours | Visual #9: Comparison of Insulins |
| | Ultralente is the name of the very long acting insulin available. | Say the name so participants hear how it is pronounced. |
| | | Ultralente is not used very often in people with type 2 diabetes. |
| | It is important to time meals and snacks to prevent low blood sugar reactions. | Review prevention, recognition and treatment of low blood sugar. |
| | Steady, very long acting insulin: acts like basal insulin has no peak action and decreases the risk of having low blood sugar provides a steady dose of insulin over a 24-hour period | Visual #9: Comparison of Insulins |
| | Glargine (Lantus) and Detemir (Levemir) are the names of the steady, very long acting insulins available. | Say the name so participants hear how it is pronounced. |
| | Glargine and Determir need to be taken once a day at the same time each day. Glargine and Determir cannot be mixed with other insulins. | |

| Objective | Content | Educator's Notes |
|--|--|--|
| IN3. Identify insulin injection sites. | The abdomen is the best area for insulin injections. Insulin is absorbed faster in this area. | Visual#11: Injection Sites |
| | The arms, thighs or hips can be used. These areas are used because they have fewer nerves and a pad of fat under the skin. Do not inject insulin into body areas where there is not enough fat. The nerve endings and blood vessels are closer to the surface. | People who are very active during the day should use these sites at bedtime. |
| | Change injection sites within an area each time. This will keep the site from getting thick from many needle sticks in the same place. Insulin will not work well if it is injected into thick skin. | Insulin is not absorbed well when injected into thick skin, including sears. |
| IN4. Demonstrate proper technique for withdrawing and injecting insulin. | It is common to feel afraid to give an insulin injection. People feel less afraid after some time. | Ask participants to share their concerns and feelings about taking insulin. |
| | Plan for a few extra minutes when you first begin taking insulin shots. | Putting off an injection does not make it any easier. Set a time and stick to it. Notes, watch alarms and other ways can help people remember when it is time to take their insulin. |
| | Here is how to withdraw and inject insulin: | Visual #12: Giving an Insulin Injection |
| | Withdrawing insulin: • gather all equipment • wash hands • roll bottle between hands or shake gently to mix NPH, Lente or Ultralente insulins • wipe the top of the bottle with alcohol before putting in the needle • remove needle cap | Keep all the supplies together. Put insulin, syringes and alcohol wipes in the place where injections will be given. |

| Objective | Content | Educator's Notes |
|------------------|---|---|
| IN4. (continued) | hold syringe at eye level, with the needle pointing toward the ceiling draw air into syringe (pull plunger back to cross the dosage mark on the syringe) inject air through the rubber stopper into the bottle | Discuss syringe size needed/available. Point out dosage markings on insulin syringes used locally. Have participants demonstrate withdrawing and injecting insulin (or saline). Instructor may demonstrate first or may guide/support participant through procedure without demonstrating first. |
| | leave the needle in the bottle and turn it upside-down so the needle is pointing upward into the insulin | Participant demonstrates mixing insulins if appropriate. |
| | pull back slowly on the plunger to withdraw the insulin push insulin back into bottle (to clear air bubbles) pull back plunger and fill syringe with desired number of units of insulin look for air bubbles; if bubbles, flush again when there are no bubbles and the dosage is correct, pull the bottle straight up and off the needle | |
| | Injecting insulin: • pick a spot for the injection • clean the skin and let dry • remove top from needle and hold the syringe in one hand, like a pencil • with the other hand, pinch up a couple inches of skin • stick the needle straight into the | Devices are available to help inject insulin, including: • spring loaded syringes • cartridge pen injectors • jet-injectors Discuss if these are available to participants. Have samples available for demonstration. |
| | suck the needle straight mit the pinched skin, push the needle all the way in relax your pinch and push the plunger all the way down, pull the needle straight out | The angle used depends on the body build and the amount of subcutaneous tissue. Sometimes blood will appear in the syringe after the needle is pushed into |



| Objective | Content | Educator's Notes |
|---|---|---|
| IN4. (continued) | | skin. If this happens, remove the needle, then discard and prepare a new syringe. |
| | press down on site, do not rub | There may be a small amount of bleeding at the injection site. |
| | Needles and syringes come in different sizes. | It is important that people use the size that they and their health care provider have agreed is best. A very fine needle may be less painful but may not be the best choic for some people. |
| | | Note: The injection sites differ slightly from those with insulin as well: • insulin - abdomen, thigh, upper arm, buttock |
| IN5. Discuss the proper storage of insulin. | The insulin bottle being used may be kept at room temperature. Extra unopened bottles of insulin need to be stored in a refrigerator. Insulin may be kept at room temperature for up to 28 days after opening. | Do not use insulin that has been exposed to temperatures that are too hot or too cold. Insulin kept at temperatures more that 86°F (e.g., on the window sill in direct sunlight on a hot summer day or in a hot car) or at freezing temperatures will lose its strength. Pack insulin in an insulated container (e.g., small ice chest) when traveling. |
| | Injecting insulin which is at room temperature is more comfortable than injecting cold insulin. Insulin at room temperature may cause fewer skin irritations. | Have visual aids available, such as insulin carrying packs, small ice chests, etc. |
| | Lispro, regular insulin and Glargine are clear. They should not have any particles floating in the bottle. Throw away the bottle if there are particles or the insulin is cloudy. | |

| Objective | Content | Educator's Notes |
|--|--|---|
| IN5. (continued) | NPH and Ultralente are cloudy. Do not use the insulin if there are large particles or there is a white substance at the bottom of the jar after mixing. | |
| IN6. Discuss the proper disposal of insulin syringes and other sharps. | Do not throw needles in the trash. Place used needles in a thick plastic container with a screw top cap (e.g., bleach, detergent or fabric softener bottle). | Ask, "How do you throw away your sharps?" List responses. Discuss local sharps disposal information and distribute handout. |
| | Needles and syringes may be used more than once if a person needs to. | Discard the needle/syringe after 24 hours to decrease risk of infection. Needles will get dull with use. Do not wipe needle with alcohol. This removes the silicone coating and can make injections more painful. Replace cap without touching the needle. Move the plunger up and down after each use to prevent needle clogs. |
| | | Local policies need to be developed for reuse of needles and syringes. |
| IN7. Discuss the major side effect of taking insulin. | Low blood sugar is a side effect of insulin. Low blood sugar may happen when a person: • takes insulin and skips a meal or a snack • takes too much insulin • is more active than usual | |
| | Lowblood sugar is more likely to happen when the insulin is working the most to lower blood sugar (peak action). | Visual #10: Insulin Action Times |
| | Low blood sugar can be treated with foods or drinks that contain sugar. | Treatment for low blood sugar is covered in Session 9. |



| Objective | Content | Educator's Notes | |
|--|--|--|--|
| INGS. State or write a personal plan for using | Making changes in health habits, such as using insulin, is easier when plans | g | |
| insulin. | are broken down into small, easy-to-do steps. | Have participants write or state one thing they can do when using insulin. | |
| | | See Session 3: Making Healthy Changes. | |

SKILLS CHECKLIST

Each participant taking diabetes medicines will be able to write or state a plan for taking their diabetes medicines. Each insulin-taking participant will be able to write or state a personal plan for using insulin and demonstrate drawing up the correct amount of insulin, injecting the insulin correctly and rotating injection sites correctly.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by appropriate use of diabetes medicines and/or insulin. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





Remembering Medicine



You left home with your family about 2 hours ago for a drive out of state to visit relatives for a couple weeks. You are looking forward to the travel and visit since the past couple weeks have been so hectic:

- · your work hours changed a couple weeks ago
- you have been helping some people out for several days by driving them to places they need to go
- your health care provider also changed your medicine 2 weeks ago

You do not feel comfortable yet with the new medicine. It has also been hard to take your medicine this week with all the changes in your schedule. You are supposed to be taking your diabetes pill before breakfast and before dinner, but this week you often forgot the breakfast pill. You also take insulin at bedtime and you remembered to take this most nights. But now you realize you have forgotten to bring your insulin and syringes with you on this trip.

| What are sechanged? | ome things you need to do whenever your medicine is |
|---------------------|---|
| | |
| | |
| Vhat would | d you do to remember your medicine? |





Remembering Medicine



You left home with your family about 2 hours ago for a drive out of state to visit relatives for a couple weeks. You are looking forward to the travel and visit since the past couple weeks have been so hectic:

- your work hours changed a couple weeks ago
- you have been helping some people out for several days by driving them to places they need to go
- · your health care provider also changed your medicine 2 weeks ago

You do not feel comfortable yet with the new medicine. It has also been hard to take your medicine this week with all the changes in your schedule. You are supposed to be taking your diabetes pill before breakfast and before dinner, but this week you often forgot the breakfast pill. You also take insulin at bedtime and you remembered to take this most nights. But now you realize you have forgotten to bring your insulin and syringes with you on this trip.

1. What would you do to plan ahead for travel?

Take enough medicine for the trip plus extra. Always keep your medicines with you when you travel, not in your suitcase. You might carry supplies separately in a special tote bag. Keep insulin from getting too hot or too cold – pack it in an insulated container. Carry a prescription for your medicine and/or doctor's letter. This is helpful if you forget/lose medicine and it is sometimes required.

What are some things you need to do whenever your medicine is changed?

It is important to check blood sugar more often when changing diabetes medicines because it shows if you are reaching target blood sugar goals and tells you times when blood sugar is too high or too low. Diabetes medicine (pills and/or insulin) is adjusted or changed until target blood sugar goal is reached. Learn the name of the medicine taken, including how much and how often. Talk to your health care provider about guidelines for reporting high and low blood sugar and side effects.

3. What would you do to remember your medicine?

Things that can help you remember to take medicine include:

- . take them about the same time each day
- take them with other pills or when doing a routine activity, such as brushing teeth
- · keep medicine in plain sight or close to where it will be used
- think about times that are hard to remember and give self-reminders, such as notes in a lunch box or setting a watch alarm.





SESSION

Home Blood Sugar Monitoring

DM-BGM Home Blood Sugar Monitoring

STATEMENT OF PURPOSE

This session provides information about the purpose of checking blood sugar and how to record and use the results.

PREREQUISITES

It is helpful if blood sugar meter instruction is completed prior to this session. It is recommended that participants bring their meters, as well as blood sugar records, to this session.

LEARNING OBJECTIVES

| DM-BGM1 | Explain that people with diabetes use a meter to learn how much sugar is in the blood. |
|---------|--|
| DM-BGM2 | List benefits of checking blood sugar. |
| DM-BGM3 | State target blood sugar ranges to decrease risk for complications. |
| DM-BGM4 | Discuss personal blood sugar goals. |
| DM-BGM5 | State when to check blood sugar. |
| DM-BGM6 | Discuss proper technique for checking blood sugar. |
| DM-BGM7 | Demonstrate how to record results correctly. |
| DM-BGM8 | Discuss benefits of bringing meter and logbooks to clinic visits. |
| DM-BGM9 | State proper disposal of sharps. |



DM-BGM10 State how to get supplies to check blood sugar.
DM-BGMGS State or write a plan to check blood sugar.

DM-BGMGNS Behavior goal not set (follow-up).

DM-BGMGM Behavior goal met (follow-up).

DM-BGMGNM Behavior goal unmet (follow-up).

CONTENT

Monitoring

MATERIALS NEEDED

Visuals Provided

- #1 Healthy Behaviors: Home Blood Sugar Monitoring
- #2 You Need to Know Your Blood Sugar Numbers
- #3 Target Blood Sugar Goals
- #4 Checklist for Meter Use (optional)
- #5 Sample Diabetes Records #1-4 (examples with data)
- #6 Sample Diabetes Record (blank)
- #7 Changes I Can Make

Additional

My Personal Care Record
American Diabetes Association Resource Guide
Samples or list of blood sugar meters and strips
Samples or list of lancets and lancet devices
Samples of logbooks
Sample sharps disposal containers
Local sharps disposal information

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative icebreaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to provide information about checking blood sugar.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate the discussion. Conclude this session by presenting examples of blood sugar logs/ records. Discuss with participants how blood sugar results can help them learn to balance food choices, physical activity and medicines and manage emotions and stress. Have a variety of teaching tools

available based on participants' learning needs. Be creative and encourage interaction. A videotape may also be shown to introduce content if available.

It is suggested that specific instructions for checking blood sugar (using particular meters/procedures) be taught on a one-on-one basis. This session emphasizes problem-solving regarding checking blood sugar for participants who already use meters.

CONTENT OUTLINE

| Objective | Content | Educator's Notes |
|--|--|---|
| BGM1. Explain that people with diabetes use a meter to learn how much sugar is in the blood. | Checking blood sugars is a way to tell how much sugar is in the blood at the time of the check. | Ask, "Who is checking their blood sugar at home? What has been your experience?" List responses. |
| | There are many things that can change the level of sugar in the blood. Some include: • type and amount of food and drinks • timing of meals • physical activity • medicines • timing of diabetes medicines • stress • illness | Visual #1: Healthy Behaviors: Home Blood Sugar Monitoring Have participants identify their current home blood sugar monitoring behaviors. |
| BGM2. List benefits of checking blood sugar. | Checking blood sugar gives information needed to make decisions about daily diabetes care. Some of the benefits are: • knowing if numbers are in target goal range | Visual #2: You Need to Know Your Blood Sugar Numbers It is important to be in the target range If a person is not in this range, they will want to make self-care changes. |
| | seeing how food choices can change blood sugars | The type and amount of food, and frequency of eating, may affect blood sugar levels. |
| | seeing how physical activity can change blood sugars | Physical activity helps the body to use sugar and makes insulin work better. |

| Objective | Content | Educator's Notes | |
|---|---|---|--|
| BGM2. (continued) | • knowing if blood sugar is low | People with diabetes need physical activity 5 or more days each week. The only way to know if someone is | |
| | | really having low blood sugar is to check the blood. | |
| | knowing if blood sugar is high (especially during times of stress or illness) | Blood sugar may be high and the person may not feel bad. Checking when a person thinks they may have high blood sugar can help them take action if it is high. | |
| | seeing how medicine is working | A health care provider may need to change diabetes medicine based on blood sugar results. | |
| BGM3. State target blood sugar ranges to decrease risk for complications. | People with diabetes who keep their blood sugar within target ranges have a lower chance for diabetes complications. | High blood sugar over many years et cause problems in the blood vessels and nerves in the body. This leads to problems in the eyes, heart, kidneys and feet. | |
| | The target range for persons with diabetes is: • 80-120 mg/dl fasting • 80-140 mg/dl 2 hours after a meal | Visual #3: Target Blood Sugar Goals These goals are for whole blood glucose. Add 10-15% to convert these to plasma glucose. | |
| | • 100-140 mg/dl bedtime | Discuss any variation in goals for facility/community based on local consensus guidelines. | |
| BGM4. Discuss personal blood sugar goals. | Target ranges may vary based on a person's health, lifestyle, diabetes care goals and other | Ask, "Would anyone share their targe blood sugar goals?" | |
| | events. | Remind participants that many things affect blood sugar, such as celebrations, funerals, family stress, etc. People may find it hard to control many of these things. Ask participants to share life events that have affected their blood sugar. | |

| Objective | Content | Educator's Notes |
|--|--|--|
| BGM5. State when to check blood sugar. | Check blood sugar at scheduled times during the day. | |
| | Some possible times are: • fasting | "Fasting" is when a person has not had anything to eat or drink (except water) for at least 8 hours. Fasting sugars give information about blood sugars during the night. |
| | before lunch or supper | Some foods cause blood sugar to go up more than others. Check blood sugar when trying new foods or when eating foods that raise blood sugar. |
| | • 2 hours after any meal | Damage to small blood vessels is associated with high blood sugar after meals. |
| | bedtime during times of stress or illness (check more often) when having symptoms of high or low blood sugar | |
| | after physical activity | Check before and after physical activity, especially when starting a new activity. |
| | Here are examples of how to mix and match times: • fasting and before largest meal • fasting and 2 hours after meals • before or after lunch or supper and bedtime | |
| | Times for checking blood sugars will vary for each person. | Times vary based on physical limitations, personal schedules, willingness to test, etc. |
| | | Encourage participants to work with their health care provider or diabetes educator to choose times that are best for them. Check at least 2 days each week, 2 times a day if blood sugar is at target goal. |

| Objective | Content | Educator's Notes | |
|--|--|---|--|
| BGM5.(continued) | | Some people need to check more often when they are: • working to reach their target goal changing their eating behavior • changing their physical activity • changing their medicines | |
| BGM6. Discuss proper technique for checking blood sugar. | There are many meters that can check blood sugars. All meters require the following steps: • get a blood sample • place blood on strip/meter • read blood sugar number • record blood sugar number • safely throw away sharps Checking blood sugar may seem | Visual #4: Checklist for Meter Use (optional) Participants need to know if their meter reports whole blood or plasma results. Plasma glucose values are 10-15% higher than whole blood glucose values. Provide information about what participants should do if they have meter questions or problems. Ask participants to share their | |
| | hard to do at first. Here are some ways to make it easier: | concerns and feelings about checking their blood sugar at home. People may feel afraid of sticking their fingers with a lancet. People will feel less afraid after some time. | |
| | keep the things needed in one place, such as a small box or bag plan ways to make checking a | Keeping supplies in one place, will save time. | |
| | part of the daily routine find reminders that help with remembering to check think about how this helps reach blood sugar goals | Ask, "What have you found that helps you to remember to check?" List responses. Examples are using an alarm clock and sticky notes and getting help from family members. | |
| | Helpful tips for getting a drop of blood to check blood sugar include: | Ask, "What problems have you had when checking your sugar? What helped you solve them?" List responses. | |
| | wash hands with warm water hang hands down at the side for a while before the finger stick | Demonstrate the tips. | |

| Objective | Content | Educator's Notes | |
|---|---|---|--|
| BGM6. (continued) | gently squeeze the fingertip until it turns red get the drop of blood from the side of finger instead of the center or top | | |
| | Do not use blood sugar monitoring equipment that belongs to another person. Do not share equipment with other people. | Stress the importance of not sharing lancets and lancet devices to prevent the spread of infection. | |
| BGM7. Demonstrate how to record results correctly. | Write down blood sugar numbers in a log or record book. | Visual #6: Sample Diabetes Record (blank). Demonstrate how to write results in a record or logbook. | |
| | look for patterns in blood sugar levels think about possible causes for | Use Visual #5: Sample Diabetes Record #1-4 (examples with data) for discussion of patterns or use local examples. | |
| | changes in blood sugar patterns | | |
| | look to see if the numbers are in the target range in log book or results stored in memory. | Review blood sugar target goal ranges. | |
| | learn to use the blood sugar numbers to make eating and physical activity changes that help to keep the numbers in the target range | Show samples of logbooks. (Note: Review target blood sugar goals listed in logbooks and change to match local target blood sugar goals as needed.) | |
| BGM8. Discuss benefits of bringing meter and logbooks to clinic visits. | It is important to share blood sugar results with the diabetes care team. This information can help each person and the diabetes care team make changes in the person's diabetes treatment plan. | Some health care providers may be able to download the information from a person's meter and print a report of results. Some health care providers will need to review the numbers written in a person's log/record book. | |
| | | Stress participant's role and responsibility in providing information about home blood sugar results to the diabetes care team. | |

| Objective | Content | Educator's Notes | |
|--|--|---|--|
| BGM9. State proper disposal of sharps. | Do not throw sharps in the trash. | Ask, "How do you throw away your sharps or lancets?" List responses. Sharps include needles and lancets. Use words for these supplies that are common in the community. | |
| | Place used sharps in a thick plastic container with a screw top cap, like a bleach, detergent or fabric softener bottle. | Show sample sharps disposal containers and discuss local policies. Local policies need to be developed based on EPA guidelines. The local ADA is a resource for policy development. | |
| | | Discard the sharp (lancet) after 24 hours to decrease the risk of infection. | |
| BGM10. State how to get supplies to check blood sugar. | Clinics and health care providers differ in how blood sugar checking supplies are provided to community members. | Provide local information about how to get supplies to check blood sugar at home. | |
| | Learn how to get blood sugar checking supplies from the diabetes care team. | | |
| BGMGS. State or write a plan to check blood sugar. | Making changes in health habits, such as checking blood sugar, is easier when plans are broken down into small, easy-to-do steps. | Visual #3: Target Blood Sugar Goals Review and assist participants to state or write their personal target blood sugar goals. | |
| | | Visual #1: Healthy Behaviors: Home Blood Sugar Monitoring Review current monitoring behaviors identified at the beginning of the session. | |
| | | Visual #7: Changes I Can Make | |
| | | Assist participants to state or write one thing they will do to improve their home blood sugar monitoring behavio | |
| | | See Session 3: Making Healthy Changes. | |

SKILLS CHECKLIST

Each participant will be able to do a blood sugar check using the appropriate technique and record the results.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by identifying at least one change to make for checking blood sugar. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.



Home Blood Sugar Monitoring



Your health care provider changed your diabetes medicine 2 weeks ago. She asked you to check your blood sugars at home twice a day, write down the result in the logbook she gave you and bring the logbook to your appointment today. Your logbook for last week looks like this:

| Fasting | Breakfast | Lunch | Dinner | Bedtime |
|---------|-----------|-------|--------|---------|
| 198 | | 267 | | |
| 172 | | | 165 | |
| 178 | | 250 | | |
| 150 | | | 65 | |
| | 167 | 201 | | |

| _ | |
|---|--|
| | at other things could you write in your logbook to give you mor ormation about the effect of your new medicine on your blood su |
| _ | |
| | brought your logbook to your clinic visit, but your health care vider did not ask to see it. What would you do? |





Home Blood Sugar Monitoring



Your health care provider changed your diabetes medicine 2 weeks ago. She asked you to check your blood sugars at home twice a day, write down the results in the logbook she gave you and bring the logbook to your appointment today. Your logbook for last week looks like this:

| Fasting | Breakfast | Lunch | Dinner | Bedtime |
|---------|-----------|-------|--------|---------|
| 198 | | 267 | | |
| 172 | | | 165 | i |
| 178 | | 250 | | |
| 150 | | | 65 | |
| | 167 | 201 | | |

What does your logbook tell you about your new diabetes medicine and your blood sugar?

There is not enough information to evaluate the effect of medicine; need logbook from before and after it was changed. Some medicine takes several weeks to show an effect on blood sugar. Personal blood sugar goals are also needed to determine if these numbers are close to them. There are no comments about food, activity or how they were feeling. These numbers are not at target blood sugar goals. One day shows a low blood sugar.

What other things could you write in your logbook to give you more information about the effect of your new medicine on your blood sugar?

Time and amounts of food and activity would provide more information to evaluate blood sugars. It is important to write down any symptoms when blood sugar is low (or any time you have symptoms) and what action you took. Any illness needs to be noted in the logbook.

3. You brought your logbook to your clinic visit, but your health care provider did not ask to see it. What would you do?

Always offer your log book to your healthcare provider and/or diabetes educator to look at. Ask them to review results with you. You might say, "You asked me to keep a logbook. Would you talk with me about my numbers?" Health care providers sometimes forget to ask for it and they will appreciate the reminder.







SESSION

8

Knowing Your Numbers-ABC

DM-ABC

Knowing Your Numbers: A1c, Blood Pressure, Cholesterol

STATEMENT OF PURPOSE

This session provides information about the importance of controlling blood sugar, blood pressure and blood fats to reduce the risk of cardiovascular disease.

PREREQUISITES

None

LEARNING OBJECTIVES

DM-ABC1 Verbalize one reason for measuring Alc. DM-ABC2 State the target A1c goal for blood sugar control. DM-ABC3 Identify current A1c. DM-ABC4 State 2 or more ways to reach or maintain A1c goal. DM-ABC5 Verbalize one reason for measuring blood pressure. DM-ABC6 State the target goal for blood pressure control. DM-ABC7 Identify current blood pressure. DM-ABC8 State 2 or more ways to reach or maintain target blood pressure goal. DM-ABC9 Verbalize one reason for measuring blood fats. DM-ABC10 State the target goals for blood fats. DM-ABC11 Identify at least one current blood fat level. DM-ABC12 List 2 or more ways to reach or maintain target blood fat goals.



DM-ABCGS State or write a plan to reach or maintain at least one of the ABC numbers.

DM-ABGNS Behavior goal not set (follow-up).

DM-ABCGM Behavior goal met (follow-up).

DM-ABCGNM Behavior goal unmet (follow-up).

CONTENT

A1c, blood pressure, blood fats

MATERIALS NEEDED

Visuals Provided

- #1 Be Smart About Your Heart: Control the ABCs of Diabetes
- #2 You Need to Know Your Blood Sugar Numbers
- #3 How to Compare Hemoglobin A1c Numbers to Blood Sugar Numbers
- #4 How to Have a Healthy Heart
- #5 Stay Young at Heart
- #6 Taking Care of Your Heart
- #7 Blood Vessels and Fat
- #8 Types of Fat in the Blood
- #9 There's Comfort in Knowing Your Numbers
- #10 Changes I Can Make

Additional

Model of red blood cell with glucose attached

Model of arteries with fat

Samples of wallet cards or similar records to record ABC numbers

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative icebreaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to provide information about the value and use of checking blood sugar, blood pressure and blood fats.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate the discussion. A videotape could also be shown to introduce content if available.

- Tage 5 01 10

CONTENT OUTLINE

| Objective | Content | Educator's Notes |
|---|--|---|
| Introduction: Why are the ABCs of diabetes important? | People with diabetes have a greater chance of having a heart attack and stroke. They can lower their chances by controlling their Ale, blood pressure and cholesterol. | Visual #1: Be Smart About Your Heart The leading cause of death in American Indian and/or Alaskan Native people is heart disease. |
| | The ABCs of diabetes focus on these risk factors: • A stands for A1c • B stands for blood pressure • C stands for cholesterol | A1c measures a person's blood sugar average over 3 months. Blood pressure measures how much work the heart has to do. Cholesterol measures how much fat is in the blood. |
| | | Other risk factors for heart attack and stroke are: |
| ABC1. Verbalize one reason for measuring A1c. | High blood sugar for long periods of time increases the chance of heart disease. | Visual #2: You Need to Know Your Blood Sugar Numbers |
| | Checking A1c is one way to know if blood sugar is at target goal. | An A1c is a blood test done in a clinic. There are also products available to test A1c at home. |
| | | Note: Estimated Average Glucose (eAG) is being reported together with A lc by some labs. The eAG is reported in the same units as blood sugar checks—mg/dl. This can help the diabetes care team, including the person with diabetes, better understand what the A lc result is saying about the achievement of target blood sugar goals. Recommendations and |

| Objective | Content | Educator's Notes |
|-------------------|--|---|
| ABC1. (continued) | | guidelines for the use of eAG vary among experts. Educators need to check local facility standards and policies regarding the use and availability of eAG reports. |
| | The A1c test shows how much sugar has been in the blood over the last 3 months. A high A1c number means blood sugar has been high. | Sugar leaves a protein substance on the hemoglobin part of the red blood cell. With higher blood sugar, more of the protein substance sticks to the hemoglobin. If blood sugar has been close to normal, ther a smaller amount of protein substance sticks to the hemoglobin. |
| | | Use model of red blood cell with glucose attached. |
| | The A1c number and the numbers from checking blood sugar at home should be in a close range to each other. | Visual #3: How To Compare Hemoglobin A1c Numbers to Blood Sugar Numbers Show how to compare A1c numbers to blood sugar numbers. |
| | If home blood sugar numbers and Alc are not in close range to each other, it may mean: | Discuss the relationship between the A1c percent and average blood sugar. |
| | a person may not be checking when their blood sugar is high or low test strips are not good or are outdated | Review recommended times for checking blood (e.g., fasting, after meals, etc). Home blood sugar monitoring is covered in Session 7. |
| | there are logbook errors there are technique errors | For example, incorrect amounts of blood on the test strip can cause incorrect meter results. |
| | A person has a better chance of delaying or preventing problems with their heart when the A1c is less than 7%. | Ask participants what benefits to controlling blood sugar they see for themselves. List responses. Other chronic complications are covered in Session 10. |
| | People with diabetes need to have an A1c test every 3-6 months. | An A1c may be needed more often if blood sugar stays too high (not at A1c goal) or there is a change in diabetes medicine. |

| Objective | Content | Educator's Notes |
|---|--|---|
| ABC2. State the target A1c goal for blood sugar control. | The recommended target goal for A1c for people with diabetes is less than 7%. This means the blood sugar is staying close to normal. | Visual #1: Be Smart About Your Heart Local programs may choose to recommend a lower A1c goal. Lower goals need to be used with caution in people at greater risk for low blood sugar, such as the very young and elderly. |
| | A change in meal plan, physical activity and/or diabetes medicine is needed if the A1c is over 8%. | Local programs may choose to make changes at a lower A1c. |
| ABC3. Identify current A1c. | It is important for people with diabetes to know their A1c. They can learn their current A1c by asking the diabetes care team for the most recent A1c. | Ask, "Does anyone know their A1e? Would anyone like to share it?" Assist participants to identify their current A1c and compare it to the target A1c goal. For example, review RPMS Diabetes Flow Sheet or simila information summary used by your facility, with participant. Have participants write their A1c on |
| | | Visual #1: Be Smart About Your Hear wallet card or similar record. |
| ABC4. State 2 or more ways to reach or maintain A1c goal. | A person will reach their A1c goal by reaching and staying at their target blood sugar goal. Ways to control blood sugar include: | Ask, "What has helped you reach you target blood sugar?" List responses. |
| | making healthy food choices | Basics of healthy eating are covered in Session 4. |
| | being physically active every day reaching and staying at a healthy weight | Physical activity is covered in Session 5. |
| | taking diabetes medicines as prescribed managing stress checking blood sugar often | Medicines are covered in Session 6. |

| Objective | Content | Educator's Notes |
|--|---|--|
| ABC5. Verbalize one reason for measuring blood pressure. | High blood pressure for long periods of time increases the chance of heart disease. | High blood pressure is also called hypertension. |
| | Measuring blood pressure is the only way to know if it is at target goal. | There is always some pressure on blood vessel walls. There is more pressure on blood vessel walls when the heart is pumping than when it is at rest. The top (higher) number on a blood pressure reading is the pressure on blood vessel walls when the heart is pumping and pushing blood out to the body. The bottom (lower) number is the pressure when the heart is resting between beats. |
| | High blood pressure makes the heart work too hard and damages blood vessels. This can lead to heart attacks and strokes. | Blood fats can also stick to vessel walls. The vessels become stiff. This is called arteriosclerosis or hardening of the arteries. |
| | Keeping blood pressure at the target goal will lower a person's chances for heart attack and stroke. | Ask, "What benefits are there to controlling blood pressure?" List responses. |
| | People with diabetes need to get their blood pressure checked at every clinic visit. | |
| ABC6. State the target goal for blood pressure control. | The recommended target goal for blood pressure for people with diabetes is below 130/80. | Visual #4: How to Have a Healthy Heart or Visual #1: Be Smart About Your Heart Treatment for high blood pressure is based on 3 blood pressure readings. |
| | A change in meal plan, physical activity and/or blood pressure medicine is needed if blood pressure is 130/80 or higher. | Eating less salt (including not adding salt while cooking or at the table) will lower blood pressure for some people. Ask, "Is anyone taking blood pressure |
| | | medicine?" List responses. |
| | | Some people need to take more than one blood pressure medicine at a time. |

| Objective | Content | Educator's Notes |
|---|---|--|
| ABC7. Identify current blood pressure. | It is important for people with diabetes to know their blood pressure. They can learn their current blood pressure by asking the diabetes care team for the most recent blood pressure. | Ask, "Does anyone know what their blood pressure number is? Would anyone like to share it?" Assist participants to identify their current blood pressure and compare it to the target blood pressure goal. For example, review RPMS Diabetes Flow Sheet or similar information summary used at your facility with participant. There are monitors available to measure blood pressure at home. Have participants write their blood pressure on Visual #1: Be Smart About Your Heart, wallet card or similar record. |
| ABC8. State 2 or more ways to reach or maintain target blood pressure goal. | These are ways to reach or maintain a person's blood pressure goal: • make healthy food choices, including eating less salt • be physically active every day • stay at a healthy weight • take blood pressure medicines as prescribed • stop tobacco use • drink less alcohol | Ask, "What are ways to reach your blood pressure goal?" List responses. This includes not adding salt while cooking or at the table when eating. Heart healthy eating is covered in Session 4. Some of these are also ways to reach blood sugar goals. |
| ABC9. Verbalize one reason for measuring blood fats. | High blood fats for long periods of time increase the chance of heart disease. Checking blood fats are the only way to know if they are at target goal. | Visual #5: Stay Young at Heart or Visual #6: Taking Care of Your Heart Blood fats are also called lipids. |

| Objective | Content | Educator's Notes |
|---|--|---|
| ABC9. (continued) | • LDL | LDL is also known as "lousy" or "bad" cholesterol. LDL deposits fat in blood vessels. |
| | • HDL | HDL is also known as "healthy" or "good" cholesterol. HDL removes fat from blood and helps protect against heart disease. |
| | When LDL cholesterol is high, it builds up and clogs blood vessels. This can lead to heart attack and stroke. | Use model of blood vessels with fat inside, Visual #7: Blood Vessels and Fats or Visual #6: Taking Care of Your Heart. |
| | Controlling blood fats will lower a person's chances for heart attack and stroke. | Triglycerides are another kind of blood fat. They often occur with high blood sugar levels and may contribute to heart disease. |
| ABC10. State the target goals for blood fats. | The recommended target goals for blood fats are: • cholesterol below 200 • LDL below 100 • HDL above 45 in men and above 55 in women • Triglycerides below 150 | Visual #1: Be Smart About Your Heart or Visual #5: Stay Young at Heart Higher numbers are better for HDL. |
| | A change in meal plan, physical activity and/or blood fat lowering medicines is needed if blood fats are not at these target goals. | |
| ABC11. Identify at least one current blood fat level. | It is important for people with diabetes to know their blood fat numbers. | Visual #6: Taking Care of Your Heart Ask, "Does anyone know what their blood fat numbers are? Would anyone like to share them?" |
| | They can learn their current blood fat numbers by asking the diabetes care team for the most recent test results. | Assist participants to identify their current blood fat numbers and compare them to the target blood fat goals. For example, review RPMS Diabetes Flow Sheet or similar information summary used at your facility with participant. |

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| Objective | Content | Educator's Notes |
|---|--|--|
| ABC11.(continued) | | Have participants write their blood fat numbers on Visual #1: Be Smart About Your Heart, wallet card or similar record. |
| ABC12. List 2 or more ways to reach or maintain target blood fat goals. | These are ways to reach or maintain target blood fat goals: | Visual #6: Taking Care of Your Heart Ask, "Is anyone taking blood fat lowering medicine?" |
| | make healthy food choices | Eating less saturated fat can help lowe LDL and substituting mono- unsaturated fat can help increase HDL Limiting sugar and alcohol can help lower triglycerides. Heart healthy eating is covered in Session 4. |
| | be physically active every day reach and stay at a healthy weight take blood fat lowering medicine as prescribed drink less alcohol | Increasing physical activity can help lower cholesterol, LDL and triglycerides and raise HDL. |
| ABC13. State where to get help to improve ABC numbers. | People can work with their diabetes care team to improve ABC numbers. Keep a record of ABC numbers and bring them to visits to discuss with the diabetes care team. | Some participants may find it difficult to ask for information/help from their health care provider to improve their Ale numbers. |
| | Ask the diabetes care team questions, such as: • what are my ABC numbers? • what should my ABC target numbers be? | Role-playing can help participants communicate with their diabetes care team to improve their ABC numbers. |
| | what can I do to reach my ABC target numbers? | Visual #9: There's Comfort in Knowing Your Numbers |



| Objective | Content | Educator's Notes |
|---|--|--|
| ABCGS. State or write a plan to reach or maintain | Making changes in health habits, such as reaching ABC number | Visual #10: Changes I Can Make |
| at least one of the ABC numbers. | goals, is easier when plans are broken down into small, easy-to- do steps. | Have participants write or state at least one thing they will do to reach or maintain at least one of the ABC numbers. |
| | | See Session 3: Making Healthy Changes. |

SKILLS CHECKLIST

Each participant will be able to identify their current A1c, blood pressure and at least one blood fat level and write them on Visual #1: Be Smart About Your Heart.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by the participant's ability to make a plan to achieve ABC number goals. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





1.

Controlling Risks for Heart Disease



At your last clinic visit, your health care provider said you have more chance for heart disease because you have diabetes. He wants you to decrease your risks for heart disease. He had you get some blood tests and said he would talk to you more next week about your blood sugar, blood pressure and blood fats.

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|----------------|------------------|-------------------------------|
| | | |
| | | |
| inces for hear | t disease? | |
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Controlling Risks for Heart Disease



At your last clinic visit, your health care provider said you have more chance for heart disease because you have diabetes. He wants you to decrease your risks for heart disease. He had you get some blood tests and said he would talk to you more next week about your blood sugar, blood pressure and blood fats.

 Why are blood sugar, blood pressure and blood fats important for preventing heart disease? How did your health care provider measure these? What would you want your numbers to be?

High blood sugar, high blood pressure and high blood fats over long periods of time increase the chance for heart disease. High blood sugar, high blood pressure and high blood fats all damage blood vessels and contribute to arteriosclerosis (hardening of the arteries). Checking the A1c (blood test) is one way to know if blood sugar is at target goal. Measuring blood pressure is the only way to know if blood pressure is at target goal. Checking blood fats (blood test) is the only way to know if they are at target goal. The recommended target goals are: A1c below 7%, blood pressure below 130/80 and blood fats—cholesterol below 200, LDL below 100, HDL above 55 in women and above 45 in men, triglycerides below 150.

2. What other risk factors for heart disease would you want to control?

Other risk factors for heart disease are smoking, being heavy, being inactive and stress. A family history of heart disease is a risk factor you cannot control.

3. What would you do to lower your chances for heart disease?

Ways to decrease chances for heart disease include keeping blood sugar, blood pressure and blood fats at target goals, taking aspirin if prescribed, stopping tobacco use, staying at a healthy weight, being more active, managing stress and seeing a health care provider at least every 6 months. Report symptoms of heart problems right away.





SESSION

9 Balancing Your Blood Sugar

DM-AC
Acute Complications

STATEMENT OF PURPOSE

This session provides information on recognizing and treating low and high blood sugar and instructions for sick day management.

PREREQUISITES

It is recommended that participants have basic knowledge about the pathophysiology of diabetes and home blood sugar monitoring.

LEARNING OBJECTIVES

Section 1: Low Blood Sugar

DM-AC1 Define low blood sugar.

DM-AC2 Discuss 2 or more causes of low blood sugar.

DM-AC3 List 2 or more symptoms of low blood sugar.

DM-AC4 State 2 or more actions to take when feeling symptoms of low blood sugar.

DM-AC5 State 2 or more actions to prevent low blood sugar.

DM-ACGS State or write a plan to use for low blood sugar, high blood sugar or sick day

management.

DM-ACGNS Behavior goal not set (follow-up).

DM-ACGM Behavior goal met (follow-up).

DM-ACGNM Behavior goal unmet (follow-up).

Behavior goal unmet (follow-up).



Section 2: High Blood Sugar

DM-AC6 Define high blood sugar.

DM-AC7 State 2 or more causes of high blood sugar.
DM-AC8 List 2 or more symptoms of high blood sugar.

DM-AC9 Discuss 2 or more actions to take when blood sugar is high.

DM-AC10 State 2 or more actions to take to prevent high blood sugar.

DM-ACGS State or write a plan to use for low blood sugar, high blood sugar or sick day

management.

DM-ACGNS Behavior goal not set (follow-up).
DM-ACGM Behavior goal met (follow-up).
DM-ACGNM Behavior goal unmet (follow-up).

Section 3: Sick Day Management

DM-AC11 Explain how blood sugar is affected during illness.

DM-AC12 State 2 or more things to do to manage blood sugar when sick.

DM-AC13 Identify 2 or more food and drink choices to use when sick.

DM-ACGS State or write a plan to use for low blood sugar, high blood sugar or sick day

management.

DM-ACGNS Behavior goal not set (follow-up).
DM-ACGM Behavior goal met (follow-up).
DM-ACGNM Behavior goal unmet (follow-up).

CONTENT

Acute complications

MATERIALS NEEDED

Visuals Provided

- #1 Target Blood Sugar Goals
- #2 Low Blood Sugar Symptoms
- #3 How Can You Treat Low Blood Sugar?
- #4 High Blood Sugar Symptoms
- #5 How Can You Treat High Blood Sugar?
- #6 Sick Day Guidelines
- #7 Sugar-Free Fluids
- #8 Foods That Contain 15 Grams of Carbohydrate
- #9 Changes I Can Make

Additional

Diabetes identification information

Samples of glucose products

Measuring spoons and $\frac{1}{2}$ cup measure



Sick day kit: a box or bag with samples of foods such as Jell-O, single serving pudding, canned juice, soda, applesauce, crackers, oatmeal, bouillon cubes or broth, tea bags, etc.

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative icebreaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purpose of this session is to provide information about sick day guidelines and the recognition, prevention and treatment of low and high blood sugar.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate the discussion. Use monitoring records or develop examples that participants can use for problem-solving. A videotape could also be shown to introduce content if available.

CONTENT OUTLINE

Section 1: Low Blood Sugar

| Objective | Content | Educator's Notes | |
|---|---|--|--|
| Introduction | If blood sugar goes too low or too high, it can cause problems. | Visual #1: Target Blood Sugar Goals | |
| | Blood sugar in people without diabetes is: • 70-99 mg/dl Fasting • 70-139 mg/dl After meals | Ask, "What is your target blood sugar goal?" | |
| | Target blood sugar goals for people with diabetes are: • 80-120 mg/dl Fasting • 80-140 mg/dl 2 hrs after a meal • 100-140 mg/dl at bedtime | These goals are for whole blood glucose. Add 10-15% to convert these to plasma glucose. Review these target blood sugar ranges with participants as a point of reference for assessing low and high blood sugar. | |
| AC1. Define low blood sugar. | Low blood sugar is also called hypoglycemia. Low blood sugar is a blood sugar level below 70 mg/dl. | | |
| AC2. Discuss 2 or more causes of low blood sugar. | Low blood sugar may be caused by: | Ask participants their ideas for what may cause low blood sugar. List responses. | |

| Objective | Content | Educator's Notes |
|--|---|--|
| AC2. (continued) | too much insulin or some diabetes pills skipped meals or snacks or waiting too long to eat after taking medication eating less than usual being more active than usual other medicines hormonal changes in women nerve damage to the stomach kidney damage increased stress drinking alcohol without eating | Medicines are covered in Session 6. Emphasize the importance of checking blood sugar at home to know how these things affect a person's blood sugar. Elderly people are more likely to have problems with low blood sugar. |
| AC3. List 2 or more symptoms of low blood sugar. | Symptoms of low blood sugar are: - shaky or being lightheaded - feeling weak - cannot think clearly - nervous or sweaty - fast heart beat - headache - blurry vision - numbness around mouth - angry or confused - hungry Symptoms of low blood sugar usually appear very fast. | Ask, "Has anyone had low blood sugar? How did you feel when you had low blood sugar?" List responses. Most people have the same symptoms each time they have low blood sugar. Visual #3: How Can You Treat Low Blood Sugar? and Visual #2: Low Blood Sugar Symptoms |
| | If blood sugar has been high for a long time, as it comes down to the target goal, people may feel symptoms of low blood sugar. It may take several days or weeks for the body to adjust to blood sugar at the target goal because the body has been used to high blood sugar. | Remind participants that if blood sugar is not below 70, it is not an emergency. Talk to a health care provider if there are symptoms of low blood sugar when it is not below 70. Suggest participants try a sugar-free liquid or gum to decrease symptoms. Some people may need a small snack (15 grams of carbohydrate) to make the symptoms go away. Emphasize that eating or drinking sugar when blood sugar is high will make it go higher. |

| Objective | Content | Educator's Notes |
|--|---|---|
| AC4. State 2 or more actions to take when feeling symptoms of low blood sugar. | Having low blood sugar can be scary for the person with diabetes and their family. Knowing how to handle low blood sugar makes it less scary. | Ask, "What have you done to treat low blood sugar?" List responses. Family members also need to know what to do. |
| | This is how to treat low blood sugar: | Visual #3: How Can You Treat Low Blood Sugar? Information provided or treatment of low blood sugar may vary based on local guidelines. |
| | check blood sugar if the blood sugar number is less than 70 mg/dl, choose one serving of a sugar food/drink (15 grams of | If a person feels symptoms of low blood sugar and cannot check it at tha time, they need to go ahead and start treatment. |
| | carbohydrate), such as: - ½ cup of fruit juice - ½ cup of regular (not diet) soft drink | Visual #8: Foods That Contain 15 Grams of Carbohydrate Show samples of sugar foods/drinks and glucose products. |
| | 1 glass (8 ounces) of milk4 teaspoons of sugar8 pieces of hard candy, such as Brachs or | These servings are approximate. Chec the label to determine a 15 gram portion of carbohydrate. |
| | LifeSavers - 1 tablespoon honey - 3-4 glucose tablets | High fat foods do not work well to treat low blood sugar. |
| | check blood sugar 15 minutes after having the sugar food or drink - if the blood sugar | Fat slows down the blood sugar response to treatment and adds extra unnecessary calories. |
| | number is still less than 70 mg/dl or the person is still having symptoms, they need to do the same treatment again. | High fat foods that do not work well to treat blood sugar include: |
| | | cheesenutsfrench friespies and cakes |

| Objective | Content | Educator's Notes |
|--|---|--|
| AC4. (continued) | check blood sugar after another 15 minutes and again in one hour to make sure the blood sugar has gone above 70 mg/dl and stayed there eat a small snack or a meal if it is time for one | If still less than 70 mg/dl or symptoms are persistent, seek care right away. Stress the importance of treating low blood sugar right away and checking blood sugar often for the rest of the day. |
| | write down the date and time of the low blood sugar and note any possible cause for the low blood sugar such as a skipped meal, more activity, etc. | Think about why the blood sugar was low and how it could have been prevented. Tell a health care provider if a person has low blood sugar more than once in a week and does not know why. |
| AC5. State 2 or more actions to prevent low blood sugar. | These are ways to prevent low blood sugar: • learn when low blood sugar is most likely to happen | Low blood sugar is most likely to happen when: • medicine is working the strongest • skipping meals • taking too much diabetes medicine Talk to a health care provider if this happens. |
| | know when and how diabetes medicine the person takes works | A person is not likely to have low blood sugar if the person is not taking diabetes medicine. Medicines are covered in Session 6. |
| | eat meals and snacks about the same time and amount each day do physical activity about the same time and amount each day take medicine as prescribed | Point out the importance of consistency in amounts and timing of medicines, food and activity. |
| | know what to do about the diabetes medicine if a meal needs to be delayed or skipped | Talk to a health care provider about what to do. |

| Objective | Content | Educator's Notes |
|---|--|---|
| AC5. (continued) | always carry a sugar food or drink in a pocket, purse and/ or car | People told not to eat before a clinic visit should bring medicine and a snack. |
| | check blood sugar often | Stress importance of checking blood sugar before physical activity, before driving a car and when there is a change in medicine, food or activity. |
| | carry identification that says the person has diabetes | Show samples and resources for diabetes identification. |
| ACGS. State or write a plan to use for low blood sugar, high blood sugar or sick day management. | Making changes in health habits, such as preparing for low blood sugar, is easier when plans are broken down into small, easy-to- | Visual #9: Changes I Can Make Have participants write or state one thing they can do for low blood |
| | do steps. | sugar. See Session 3: Making Healthy Changes. |

Section 2: High Blood Sugar

| Objective | Content | Educator's Notes | |
|--|--|---|--|
| AC6. Define high blood sugar. | High blood sugar is also called hyperglycemia. High blood sugar is when the blood sugar level is more than 140 mg/dl. | | |
| AC7. State 2 or more causes of high blood sugar. | High blood sugar may be caused by: not enough insulin or oral diabetes medicine eating too much food not enough physical activity weight gain | Ask participants their ideas for what may cause high blood sugar. List responses. | |
| | other medicines | Medicines that can cause high blood sugar include: • corticosteroids • catecholamines (stress hormones) • some diuretics • oral contraceptives | |

| Objective | Content | Educator's Notes |
|--|---|---|
| AC7. (continued) | increased stress illness infection medicine that has expired or "gone bad" too much alcohol | niacin sympathomimetics |
| AC8. List 2 or more symptoms of high blood sugar. | Symptoms of high blood sugar are: urinating more often thirst dry mouth feeling hungry tiredness or weakness blurred vision Symptoms of high blood sugar usually come on slowly. Some people with type 2 diabetes may not feel any of these symptoms until their blood sugar is more than 300 mg/dl. People with blood sugar greater than 300 mg/dl are more likely to have dehydration. Dehydration can become a serious problem if not treated right away. | Ask, "Has anyone had high blood sugar?" What symptoms did you have when you had high blood sugar?" List responses. Visual #4: High Blood Sugar Symptoms |
| | Symptoms of dehydration are: | This is an emergency and the person needs to go to the hospital right away. Untreated high blood sugar and dehydration can lead to hyperosmolar hyperglycemic nonketotic syndrome (HHNS). HHNS is an uncommon but potentially fatal acute complication of type 2 diabetes. See Supplemental Readings for references. |
| AC9. Discuss 2 or more actions to take when blood sugar is high. | These are actions to take when the blood sugar is more than 140mg/dl: | Visual #5: How Can You Treat High Blood Sugar? |

| Objective | Content | Educator's Notes |
|--|---|--|
| AC9. (continued) | take medicine if a dose was skipped eat planned meals | Think about why the blood sugar is high and how it could have been prevented. Ask, "What have you done to take care of your high blood sugar?" List responses. High blood sugar can be frustrating. Ask participants to share how it feels when blood sugar stays high while trying to bring it down. |
| | be active drink plenty of water or sugar-free fluids check blood sugar more often | Caution participants to discuss with their health care provider their activity plans when blood sugar is over 300. |
| | Contact a health care provider for any of the following: • blood sugar readings above the usual range for more than a week • symptoms of high blood sugar • two blood sugars in a row over 300 mg/dl • vomiting, confusion or symptoms of severe dehydration | Discuss action plan for high blood sugar with a health care provider. See Objectives AC-11 and AC-12 for discussion of high blood sugar on sick days. |
| AC10. State 2 or more actions to take to prevent high blood sugar. | These are ways to prevent high blood sugar: • know target blood sugar goals • learn when high blood sugar is most likely to happen • eat meals and snacks, do physical activity and take medicine in about the same amounts and at about the same times each day • check blood sugar often • manage stress | Ask, "What are things you have done to prevent high blood sugar?" List responses. |

| Objective | Content | Educator's Notes |
|--|--|--|
| ACGS. State or write a plan to use for low blood sugar, | Making changes in health habits, such as preparing for high blood | Visual #9: Changes I Can Make |
| high blood sugar or sick day management. | sugar, is easier when plans are broken down into small, easy-to- do steps. | Have participants write or state one thing they can do for high blood sugar. |
| | | See Session 3: Making Healthy Changes. |

Section 3: Sick Day Management

| Objective | Content | Educator's Notes |
|---|--|--|
| AC11. Explain how blood sugar is affected during illness. | Illness usually raises blood sugar because: • the body releases stress hormones that can lead to high blood sugar • there is more chance for dehydration during illness as a result of high blood sugar | People with diabetes are at higher risk for illnesses such as colds, flu, infections, etc. |
| AC12. State 2 or more things to do to manage blood sugar when sick. | Sick day plans need to be made with a health care provider before illness occurs. These are ways to manage blood | Visual #6: Sick Day Guidelines |
| | sugar when sick: • take diabetes medicine as usual • drink at least one small glass (8 ounces) of sugar-free fluids every hour to prevent dehydration • check blood sugar every 4 hours or more often • drink liquids and eat soft food if unable to eat the usual foods | Emphasize the importance of taking diabetes medicines when sick. Provide information for medicines that need to be taken with food. Medicines are covered in Session 6. |
| | People need to contact their health care provider when: | Emphasize the importance of seeking care right away if any of these are present. |

| Objective | Content | Educator's Notes |
|---|---|---|
| AC12. (continued) | vomiting for more than one day diarrhea more than 5 times or for longer than 6 hours high (101.5F) or rising fever trouble breathing or breathing fast blood sugar over 300 mg/dl for more than one day feeling drowsy or faint abdominal pain or other unusual pain sickness for more than 2 days | |
| AC13. Identify 2 or more food and drink choices to use when sick. | Sugar-free fluids people can drink to prevent dehydration include: • water • sugar-free Kool-Aid • diet soft drinks • club soda • unsweetened tea People need to drink fluids or eat soft foods that contain some sugar when they are not able to eat regular foods because of nausea or poor appetite. They need to have one serving of liquids or soft foods that contain sugar (15 grams of carbohydrate) every hour. | Visual #7: Sugar-Free Fluids Visual #8: Foods that Contain 15 Grams of Carbohydrate Have participants practice choosing from the list. Show a sample Sick Day Kit. |
| ACGS. State or write a plan to use for low blood sugar, high blood sugar or sick day management. | Making changes in health habits, such as preparing for sick days, is easier when plans are broken down into small, easy-to-do steps. | Visual #9: Changes I Can Make Have participants write or state one thing they can do for sick days. See Session 3: Making Healthy Changes. |



SKILLS CHECKLIST

Each participant will be able to make a plan to use for low blood sugar, high blood sugar and sick day management.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by identifying at least one change to make for managing low blood sugar, high blood sugar and sick days. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





Balancing Blood Sugar



You just started on a new diabetes pill. You took your medicine before you left for work, but you were running late and did not eat any breakfast. A couple hours after you get to work you start to feel shaky, sweaty and weak.

| WI kn | hat do you think might be causing you to feel this way? How do yow? |
|----------|---|
| a. | Assuming the problem is low blood sugar, what would you do to tre |
| b. | If this had been high blood sugar, what would you do? |
| Wł | nat could you do to plan ahead and keep this from happening in t ure? |
| Wh | nat would you tell co-workers/family members/friends about this nation? Discuss your feelings about sharing this information. |





Balancing Blood Sugar



You just started on a new diabetes pill. You took your medicine before you left for work, but you were running late and did not eat any breakfast. A couple hours after you get to work you start to feel shaky, sweaty and weak.

1. What do you think might be causing you to feel this way? How do you know?

Based on the symptoms in the story, the person is having low blood sugar. Symptoms of low blood sugar usually appear very quickly. They include:

- feeling shaky or light-headed
- nervous or sweaty
- angry or confused
- headache
- · cannot think clearly
- anxious or irritable
- hungry fast heart heat

feeling weak

- blurry vision
- · numbness or tingling around the lips

Symptoms of high blood sugar usually come on slowly. They include:

- urinating more often
- thirst
- dry mouth blurred vision

tiredness or weakness

a. Assuming the problem is low blood sugar, what would you do to treat this problem?

This is how to treat low blood sugar:

- · check blood sugar with a meter
- if the blood sugar number is less than 70 mg/dl, choose one serving of a sugar food/drink (15 grams of carbohydrate), such as:
 - ½ cup of fruit juice
 - ½ cup of regular (not diet) soft drink
 - 1 glass of milk
 - 4 teaspoons of sugar
 - 8 pieces of hard candy, such as Brachs or LifeSavers
 - 1 tablespoon honey
 - 3-4 glucose tablets

High fat foods such as candy bars do not work well to treat low blood sugar.

- re-check blood sugar 15 minutes after having the sugar food or drink If the blood sugar number is still less than 70 mg/dl or the person is still having symptoms, they need to do the same treatment again
- · check blood sugar after another 15 minutes and again in one hour, to make sure the blood sugar has gone above 70 mg/dl and staved there

Eat a small snack, or a meal if it is time.

Write down the date and time of the low blood sugar and note any possible reasons for it (such as skipped a meal, more activity, etc.)

(continued)

Balancing Blood Sugar (continued)

b. If this had been high blood sugar, what would you do?

These are actions to take when the blood sugar is more than 140:

- take medication if a dose was skipped
- eat planned meals
- be active
- · drink plenty of sugar-free fluids
- check blood sugar more often

Contact health care provider for any of the following:

- · blood sugar readings above the usual range for more than a week
- signs and symptoms of high blood sugar
- · two blood sugars in a row over 300 mg/dl
- · vomiting, confusion or signs and symptoms of severe dehydration

3. What could you do to plan ahead and keep this from happening in the future?

These are ways to prevent low blood sugar:

- · learn when low blood sugar is most likely to happen
- · know when and how your diabetes medicine works
- · eat meals and snacks about the same time and amount each day
- . do physical activity about the same time and amount each day
- · take medicine as prescribed
- . know what to do about your diabetes medicine if you need to delay or skip a meal
- · always carry a sugar food or drink in your pocket, purse and/or car
- · check blood sugar often
- · wear identification that says you have diabetes

What would you tell co-workers/family members/friends about this situation? Discuss your feelings about sharing this information.

Tell co-workers, family members and friends about symptoms of low blood sugar and how they can help you. Teach them to give you a sugar food or drink even if you act angry or stubborn.





You wake with body aches and you have a fever. You are also feeling sick to your stomach. You usually eat breakfast but aren't sure you could keep any food down this morning. You checked your blood sugar and it is higher than usual.

| What would you do differently about your of sugar checks when you are sick? | |
|---|---------------------------|
| | liabetes medicine or bloo |
| | |
| When would you call your health care provi | der during an illness? |



You wake with body aches and you have a fever. You are also feeling sick to your stomach. You usually eat breakfast but aren't sure you could keep any food down this morning. You checked your blood sugar and it is higher than usual.

What would you do about eating when you are not feeling well?

To prevent dehydration, drink sugar-free fluids such as:

- water
- · sugar-free Kool-Aid
- · diet soft drinks
- · club soda
- · unsweetened tea

People need to drink fluids or eat soft foods that contain some sugar when they are not able to eat regular foods because of nausea or poor appetite. They need to have one serving of liquids or soft foods that contain sugar (15 grams of carbohydrate) every hour. Think about what sounds good to you—brainstorm choices.

2. What would you do differently about your diabetes medicine or blood sugar checks when you are sick?

- · take usual diabetes medication
- drink at least a small glass (8 ounces) of sugar-free fluids every hour to prevent dehydration
- · check blood sugar every 4 hours or more often
- · drink liquids and eat soft food if unable to eat the usual foods

3. When would you call your health care provider during an illness?

People need to contact their health care provider when:

- vomiting for more than one day
- · diarrhea more than 5 times or for longer than 6 hours
- high (101.5F) or rising fever
- · trouble breathing or breathing fast
- · blood sugar over 300 mg/dl for more than one day
- · feeling drowsy or faint
- · abdominal pain or other unusual pain
- · sickness for more than 2 days







SESSION

Staying Healthy With Diabetes

DM-CC

Staying Healthy With Diabetes: **Preventing and Treating Diabetes** Complications

STATEMENT OF PURPOSE

This session provides information about the prevention and treatment of long-term complications that may occur with diabetes.

PREREQUISITES

It is recommended that each participant have basic knowledge about diabetes and self-care, from either personal experience or from attending previous sessions. Readiness to learn about complications should be carefully assessed before this content is presented.

LEARNING OBJECTIVES

Section 1: Overview

DM-CC1 State that controlling blood sugar lowers the chance of getting diabetes complications.

DM-CC2 Identify 2 or more factors that increase the risk of complications.

DM-CC3 State 2 or more long-term complications of diabetes.

DM-CCGS State or write at least one behavior change that will help lower their risk for diabetes

complications.

DM-CCGNS Behavior goal not set (follow-up). DM-CCGM Behavior goal met (follow-up). DM-CCGNM

Behavior goal unmet (follow-up).

Section 2: Complications

Retinopathy

DM-CC4 Define retinopathy in their own words.

DM-CC5 List 2 or more ways to prevent or delay eye disease.

Discuss how eve disease is treated. DM-CC6

Heart Disease

DM-CC7 Define heart disease in their own words.

DM-CC8 List 2 or more ways to prevent or delay heart disease.

DM-CC9 Discuss how heart disease is treated.

Nephropathy

DM-CC10 Define nephropathy in their own words.

DM-CC11 List 2 or more ways to prevent or delay kidney disease.

Discuss how kidney disease is treated. DM-CC12

Neuropathy

DM-CC13 Define neuropathy in their own words.

DM-CC14 List 2 or more ways to prevent or delay nerve damage.

DM-CC15 Discuss how nerve damage is treated (including pain management).

Sexual Health

DM-CC16 Discuss in simple terms how diabetes and high blood sugars may impact intimacy/

sexuality.

DM-CC17 List 2 or more ways to prevent or delay sexual health problems.

DM-CC18 Discuss how sexual health problems are treated.

DM-CC19 Discuss ways to talk about sexual concerns with significant others and members of the health

care team.

Periodontal DM-CC20

Define periodontal disease in their own words.

DM-CC21 List 2 or more ways to prevent or delay gum/teeth problems.

DM-CC22 Discuss how periodontal disease is treated.

DM-CCGS State or write at least one behavior change that will help lower their risk for diabetes

complications.

DM-CCGNS Behavior goal not set (follow-up).

Behavior goal met (follow-up). DM-CCGM

DM-CCGNM Behavior goal unmet (follow-up).

Section 3: Summary

Describe the need for all people with diabetes to get yearly tests, exams and immunizations. DM-CC23

DM-CC24 Identify their risk factors for diabetes complications.

DM-CCGS State or write at least one behavior change that will help lower their risk for diabetes

complications.

DM-CCGNS Behavior goal not set (follow-up). DM-CCGM Behavior goal met (follow-up).

DM-CCGNM Behavior goal unmet (follow-up).



CONTENT

Long-term complications and risk reduction

MATERIALS NEEDED

Visuals Provided

- #1 Blood Vessels in the Body
- #2 Nerves in the Body
- #3 Taking Care of Your Eyes
- #4 Normal Eve
- #5 Microaneurysms
- #6 Proliferative Retinopathy
- #7 Large Vessel Disease
- #8 Taking Care of Your Heart
- #9 Stay Young at Heart
- #10 Blood Pressure Medicines
- #11 Blood Fat Medicines
- "11 Blood I di med
- #12 Normal Kidney
- #13 Taking Care of Your Kidneys
- #14 Be Kind To Your Kidneys
- #15 Nerve Damage: Feet, Pain, Stomach, Heart
- #16 The Intimate Side of Diabetes
- #17 Taking Care of Your Teeth
- #18 My Health Status
- #19 Changes I Can Make

Additional

Take Charge of Your Diabetes or Complication Series (NIDDK)

Complications video

Laminated chart: Progression of Diabetic Retinopathy

Models of eye, heart, blood vessels, kidney, foot, teeth

Body apron

Glucose wands

Games, such as Jeopardy or Bingo

Information about local support groups and local resources for those

with complications

Tobacco cessation resource list for area

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative icebreaker. (See Introduction p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with



diabetes. Explain that the purpose of this session is to provide an overview of the long-term complications of diabetes so participants can take steps to prevent them, identify symptoms early and seek treatment if complications occur.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate discussion. Have a variety of teaching tools available based on participants' learning needs. Be creative and encourage interaction. Games can be played. A videotape may also be shown to introduce content if available.

When presenting this material it is important to be sensitive to the participants' responses to the information shared and discussed during this session. An individual session may be needed to address some participants' individual concerns.

CONTENT OUTLINE

Section 1: Overview

| Objective | Content | Educator's Notes |
|--|---|--|
| CC1. State that controlling blood sugar lowers the chance of getting diabetes complications. | Over time, diabetes can cause changes in the body. These changes can lead to problems. These problems are called complications. | Ask participants to share feelings or experiences regarding diabetes complications. Visual #1: Blood Vessels in the Body and Visual #2: Nerves in the Body |
| | Some people may not get any complications, while others may get one or more than one. | People vary in the severity of the complications for them. |
| | Some of the complications may be prevented or delayed by: • keeping blood sugar in the target range • keeping blood pressure in the target range • keeping blood fats in the target range • seeing health care providers at regular times | High blood sugar for long periods of time can affect the large blood vessels in the brain, heart, legs and feet and the small blood vessels in the kidneys and eyes. This can lead to stroke, heart disease, kidney disease, eye disease and foot problems. High blood sugar for long periods of time can affect all parts of the nervous system. This can lead to loss of feeling in the feet, loss of strength in muscles and changes in digestion, bladder, heart and sexual function. |

| Objective | Content | Educator's Notes |
|--|--|--|
| CC1. (continued) | Some of the complications can be corrected or their progress slowed if they are found and treated early. A person has the best chance to stay healthy by keeping blood sugar near the target range. | Some people may show early signs of complications at the time they are diagnosed with diabetes. Ask, "What are target blood sugar ranges?" You might share the following with participants to stress this point: For every 1% decrease in the A1c, the chance for problems is lowered by a third. Refer participants to research studies, such as the Diabetes Control and Complications Trial (DCCT) and United Kingdom Prospective Diabetes Study (UKPDS), if they desire more information. (See Supplemental Readings for references.) |
| CC2. Identify 2 or more factors that increase the risk of complications. | In addition to high blood sugars, other risk factors for getting complications are: • heredity • tobacco use | Risk factors are things that increase a person's chances for having problems. Tobacco use damages the blood vessels and increases the risk of stroke, heart disease, eye, kidney and nerve damage. |
| | alcohol use | Too much alcohol can damage blood vessels. Alcohol is high in calories and can lead to weight gain, making diabetes harder to control. |
| | being overweight | Being overweight causes the heart to work harder. Increased body fat causes insulin resistance and raises blood sugar. |
| | • stress | Hormones released during stress can harm the body. |
| | high blood pressure | Ask, "What are target blood pressure ranges?" High blood pressure damages the heart and blood vessels. |

| Objective | Content | Educator's Notes |
|--|---|---|
| CC2. (continued) | • high blood fats | Ask, "What are target blood fat ranges?" High blood fats build up in blood vessels and block the flow of blood. See below and other sessions for more specific information about these risk factors. |
| CC3. State 2 or more long- term complications of diabetes. | Complications of diabetes include: | Ask, "What are some of the long-term complications of diabetes?" List responses. Ask, "Have you known anyone with complications from diabetes? What complications are you most worried about?" See below for more specific information about these complications. |
| CCGS, State or write at least one behavior change that will help lower their risk for diabetes complications. | Making changes in health habits to lower the risk for diabetes complications is easier when plans are broken down into small, easy-to-do steps. Think about making changes in one or more of these or other areas: • keep blood sugar, blood pressure and blood fats at target goal • avoid other risk factors • be more active • stay in close contact with the health care team • report symptoms right away • get recommended tests and exams | Visual #18: My Health Status and Visual #19: Changes I Can Make Using My Health Status, assist participants to write or state at least one thing they will do to lower their risk for diabetes complications, based on their identification of risk factors. See Session 3: Making Healthy Changes. |

| Objective | Content | Educator's Notes |
|---|--|---|
| CC4. Define retinopathy in their own words. | Retinopathy means eye disease. | Ask, "How would you describe retinopathy?" List responses. |
| | People with diabetes have more chance of having eye disease, but there are things people with diabetes can do to prevent, delay and treat it. | Visual #3: Taking Care of Your Eyes |
| | Retinopathy can happen when blood sugar and blood pressure is high for long periods of time and affects the small blood vessels in the retina of the eye. | The retina is the thin layer in the back of the eye that receives images from the lens of the eye and sends pictures of what is seen to the brain. |
| | the fetha of the eye. | You may need to orient participants to parts of the eye before discussing changes with retinopathy. |
| | | Visual #4: Normal Eye or model of eye |
| | Changes in the retina happen slowly and usually in this order: • blood vessels get weak spots | Point out the blood vessels, optic nerve and macula (center of vision) of the retina. |
| | the weak spots change into small pouches these pouches are fragile and can break easily, causing blood to leak in the retina when these leaky areas heal, they form scars that block | Visual #5: Microaneurysms The small pouches are called microaneurysms. |
| | • new blood vessels then form in the retina and in the jelly that | Visual #6: Proliferative Retinopathy |
| | fills the eye, to get blood around the scarred areas | The forming of new blood vessels is called proliferative retinopathy. |
| | | Additional materials such as a laminated chart: Progression of Diabetic Retinopathy may be used. |
| | | Use visuals as discussion guides to highlight content appropriate for participants. |

| Objective | Content | Educator's Notes |
|------------------|--|--|
| CC4. (continued) | When there is scarring and when new blood vessels are forming, people will have changes in their eyesight. | Stress the importance of annual eye exams because people may not notice any changes in their eyesight until this begins. |
| | Changes may include: | See a health care provider right away if any changes are noticed. |
| | blurred eyesight | Visual #3: Taking Care of Your Eyes Blurred vision can also happen with high blood sugar. This blurring will go away when the blood sugar is stable. Blood sugar needs to be stable for 6-8 weeks before testing for glasses. |
| | clouding of vision | Cloudy vision can also happen with cataracts. |
| | color is less clear hard to see when driving at night | |
| | black floating spots seems like looking through a pool of blood or a spider web The blood in the retina and the | If these happen, or if there are streaks or a black curtain over the eye, cobwebs, flashing lights or sudden sight loss, going to the emergency room right away is necessary. |
| | changes in eyesight may get all better or somewhat better later on. | |
| | If bleeding happens in or near the macula, there can be severe vision loss. | Diabetes is the leading cause of new blindness in the U.S. |
| | If retinopathy is not treated, it may lead to total blindness. | |
| | Cataracts and glaucoma also happen more often in people with | A cataract (cloudy lens of the eye) causes cloudy vision. |
| | diabetes. | Glaucoma (high pressure in the eye) can cause vision loss. An eye doctor can check for these problems and trea them. |

| Objective | Content | Educator's Notes |
|---|---|--|
| CC5. List 2 or more ways to prevent or delay eye disease. | There are many things people can do to prevent or delay eye disease. They include: | Ask participants if they have any ideas for preventing eye disease. List responses. |
| | | Visual #3: Taking Care of Your Eyes |
| | keep blood sugar in the target range keep blood pressure in the target range | Provide practical, specific tips to control blood sugar and blood pressure and focus on small steps in changing lifestyle habits that lead to bigger changes they can stick with. Target ranges for blood sugar and blood pressure are covered in Sessions 7 and 8. |
| | • get a yearly eye exam | A dilated eye exam or retinal photo is needed to tell if there is retinopathy. There may not be any vision changes in retinopathy. The eye doctor will look for changes in the retina in the back of the eyes. This exam needs to be done with the pupils dilated—eye drops are placed in the eyes to see the retina better. |
| | tell the health care provider about any vision or eye changes | Emphasize the importance of tests, exams and visits for early detection and treatment of eye disease. |
| | stop tobacco use | Tobacco use damages blood vessels in the eye. |
| | | Make appropriate referrals and appointments. Distribute local resource list. |
| CC6. Discuss how eye disease is treated. | Retinopathy can only be treated by laser therapy. Laser therapy is usually done over 3 or 4 clinic visits. | Remind participants about risk factors and ways to prevent or delay retinopathy. See Objectives CC-2 and CC-5. |
| | During treatments the laser directs a finely focused beam of light on the retina. This slows or | Some people find laser therapy uncomfortable. |

| Objective | Content | Educator's Notes |
|---|--|--|
| CC6. (continued) | prevents the new abnormal blood vessels from forming or causes them to disappear. | The laser can also be used to destroy nests of new blood vessels. This is very important if they are bleeding. Laser treatment may not improve vision. |
| CC7. Define heart disease in their own words. | Heart disease includes chest pain (angina) and heart attack (MI). People with diabetes have more chance of having heart disease, but there are things people can do to prevent, delay or treat it. Heart disease can occur when blood sugar, blood pressure and blood fats are high for long periods of time. Changes in blood vessels happen when blood fats stick to the vessel walls. The vessels become stiff and less elastic and the inside of the vessel is smaller. This is called arteriosclerosis or hardening of the arteries. When this happens in the blood vessels of the heart, it may lead to angina (chest pains) or heart attacks. | Ask, "How would you describe heart disease?" List responses. Visual #7: Large Vessel Disease or model of blood vessels with fat build-up Target goals for blood sugar, blood pressure and blood fats are covered in Sessions 7 and 8. Increased stress, tobacco use and a family history of heart disease also increase a person's chances of having heart disease. Heart disease is 2-4 times more common in men with diabetes and 4-8 times more common in women with diabetes. Heart disease is the most common type of arteriosclerosis. Arteriosclerosis can affect other parts of the body: • when arteriosclerosis happens in brain blood vessels, it can lead to strokes - strokes are 2-4 times more common in people with diabetes • when it happens in leg blood vessels, there may be pain when walking and more chance of infection |

| Objective | Content | Educator's Notes |
|---|---|--|
| CC8. List 2 or more ways to prevent or delay heart disease. | There are many things people can do to prevent or delay heart disease. They include: | Visual #8: Taking Care of Your Heart and Visual #9: Stay Young at Heart |
| | | Ask participants if they have any ideas for preventing heart disease. List responses. |
| | keep blood sugar, blood pressure and blood fats at target goal | Target goals for blood sugar, blood pressure and blood fats are covered in Sessions 7 and 8. |
| | stay at a healthy weight be more active | Provide practical, specific tips to control blood sugar, blood pressure, blood fats, etc. |
| | | Focus on small steps in changing lifestyle habits that lead to bigger changes they can stick with. |
| | see health care provider at least every 6 months take aspirin when prescribed stop tobacco use manage stress | Stress the importance of working with the health care provider. Refer to a dictitian as appropriate. Emphasize the importance of tests, exams and visits for early detection and treatment of heart disease. |
| | report symptoms of possible heart problems right away - symptoms include chest pain, severe dizziness, fainting and swollen ankles or legs | Tests such as EKGs can be done at clinic visits to find problems early. Emphasize the importance of recognizing symptoms and getting care right away. |
| CC9. Discuss how heart disease is treated. | Treatment of heart disease is the same for people with and without diabetes. | Treatment depends on the severity of heart disease. |
| | Treatment includes: • making healthy food choices • being more active • staying at a healthy weight • managing stress • taking medicine as prescribed • surgery in some cases • stopping tobacco use | Visual #10: Blood Pressure Medicines and Visual #11: Blood Fat Medicines |

| Objective | Content | Educator's Notes |
|---|---|--|
| CC9. (continued) | | Review medications used locally for high blood pressure, high blood fats and heart function. Risk factors are covered in Objective CC-2. |
| CC10. Define nephropathy in their own words. | Nephropathy means kidney disease. | Ask, "How would you describe kidney disease?" List responses. |
| | People with diabetes have more chance of kidney disease. There are things people with diabetes can do to prevent, delay or treat it. | Visual #4: Be Kind To Your Kidneys and Visual #12: Normal Kidney, model of kidney or body apron |
| | Nephropathy can occur when blood sugar and blood pressure are high for long periods of time and affect the small blood vessels in the kidney. | Small blood vessels in the kidney filter blood so that needed substances are kept in the body and waste products (including water) are passed out of the body as urine. |
| | | High blood sugar and high blood pressure may cause the small blood vessels in the kidneys to get thick and the kidneys do not filter as they should. Substances such as protein are lost in the urine and waste products build up in the blood. |
| CC11. List 2 or more ways to prevent or delay kidney disease. | There are many things people can do to prevent or delay kidney disease. They include: | Visual #13: Taking Care of Your Kidneys |
| disease. | disease. They metade. | Ask participants if they have any ideas for preventing kidney disease. List responses. |
| | keep blood sugar at target goal keep blood pressure at target goal | Provide practical, specific tips to control blood sugar and blood pressure. Focus on small steps in changing lifestyle habits that lead to bigger changes they can stick with. Target goals for blood sugar and blood pressure are covered in Sessions 7 and 8. |



| Objective | Content | Educator's Notes |
|-------------------|--|--|
| CC11. (continued) | check how well kidneys are working with a blood test and urine test every year | There are 3 routine tests to check kidney function: • protein in the urine is checked with a urine test • microalbuminuria screening is done once a year with a urine test to identify early changes in kidney function and assess need for ACE/ARB medicines • creatinine is checked yearly with a blood test |
| | take medicines for kidney protection | A group of medicines called angiotensin-converting enzyme (ACE) inhibitors and angiotensin receptor blockers (ARB) can delay the progression of kidney disease. They work by reducing the protein in the urine. These medicines are also used to treat high blood pressure. Even in people without high blood pressure, protein in the urine can be reduced with ACE/ARB medicines. List ACE/ARBs used in local program. |
| | see a health care provider at least every 6 months | Visual #10: Blood Pressure Medicines Stress the importance of working with the health care provider. Emphasize the importance of tests, exams and visits for early detection and treatment of kidney disease. People may not have symptoms in early kidney disease. |
| | avoid medicines that might harm the kidneys | Medicines that might harm the kidneys include some antibiotics and ASA or NSAIDs in high doses. Contrast dyes used in some tests might also harm the kidneys and need to be used with caution. |
| | stop tobacco use treat bladder infections right away | Symptoms of bladder infections include urgency, pain, burning, frequency and |

| Objective | Content | Educator's Notes |
|--|---|---|
| CC11. (continued) | | blood in the urine. Some people have no symptoms when they have a bladder infection. |
| | | Visual #14: Be Kind To Your Kidneys |
| CC12. Discuss how kidney disease is treated. | Treatment for kidney disease may include: • medicines | Medicines may include: • ACE/ARB for kidney protection in early stages • medicine for high blood pressure • medicines to treat problems that occur with kidney changes |
| | eating behavior changes: eating less protein eating less salt | It is important to see a dietitian to review nutrition needs. |
| | - limiting fluids | Visual #14: Be Kind To Your Kidneys |
| | If kidney disease becomes worse, the kidneys may not work anymore. If this happens, treatment choices are: • hemodialysis (a machine is used to filter blood 2-3 times a week) • peritoneal dialysis (fluid is put into and then drained out of the abdomen where the peritoneum is used as a filter) • kidney transplantation | Ask participants to share their feelings about dialysis. |
| CC13. Define neuropathy in their own words. | Neuropathy means nerve damage. People with diabetes have more chance of having neuropathy. There are things people with diabetes can do to prevent, delay or treat it. | Ask, "How would you describe neuropathy?" List responses. |
| | Types of neuropathy are: | Visual #15: Nerve Damage: Feet, Pain, Stomach, Heart |



| Objective | Content | Educator's Notes |
|---|--|--|
| CC13. (continued) | sensory (damage to sensory nerves causes pain or loss of feeling) motor (damage to motor nerves causes muscle weakness) autonomic (damage to autonomic nerves causes changes in the way the body controls certain functions, including blood pressure, digestion, bladder function and sexual function) People often have more than one type of neuropathy at the same time. The symptoms people feel depend on the type of neuropathy | Neuropathy most often affects the nerves to the legs, feet and hands. |
| | and how much damage there is. Symptoms include: burning in the feet loss of feeling in the feet loss of bladder control dizziness when standing up constipation and diarrhea feeling full after eating only a small amount nausea and vomiting problems with sexual function | Most people will feel numbness or tingling, pain and burning, less sensation and/or sometimes muscle weakness. Nerve damage can lead to severe pain. Symptoms may come and go and tend to increase with high blood sugar. |
| CC14. List 2 or more ways to prevent or delay nerve damage. | There are many things people can do to prevent /delay nerve damage. They include: • keeping blood sugar at target goal • reporting symptoms early | Ask participants if they have any ideas for preventing nerve damage. List responses. Provide practical, specific tips to control blood sugar and focus on small steps in changing lifestyle habits |
| | seeing health care provider at least every 6 months drinking less alcohol stopping tobacco use | that lead to bigger changes they can stick with. |

| Objective | Content | Educator's Notes |
|---|---|--|
| CC15. Discuss how nerve damage is treated (including pain management). | Treatment of nerve damage may include: • keeping blood sugar at target goal • pain management including: • walking to decrease leg pains • relaxation exercises • hypnosis • biofeedback training • transcutaneous nerve stimulation (TENS) unit • acupressure • acupuncture | Pain clinics are available in some areas. A TENS unit is a battery-powered device that sends an electric current to the painful areas. The current blocks the pain message from going to the brain, which decreases the pain. |
| | • pain medicines | Narcotics are not generally used for long-term treatment. Medications may include NSAIDs, tramadol and anti-depressant and anti-seizure medications. |
| | skin creams | Discuss creams used for pain, such as Capsaicin, available locally. |
| CC16. Discuss in simple terms how diabetes and high blood sugars may impact intimacy/sexuality. | Diabetes brings many changes into a person's life. The feelings these changes bring about may affect how a person responds to his or her partner. | Ask, "Have you heard about this before? Do you have any questions?" Discuss according to the interest and needs of the participants. |
| | High and low blood sugar may affect how a person responds to his or her partner. • high blood sugar may make a person too tired for sex or may cause temporary erectile dysfunction • low blood sugar may make it hard to become sexually excited or reach orgasm | Visual #16: The Intimate Side of Diabetes |
| | When blood sugar is high for long periods of time it may damage the | |

| Objective | Content | Educator's Notes |
|---|---|---|
| CC16. (continued) | nerves that control sexual function. • men may have erectile dysfunction - this means they are not able to keep an erection • women may have weaker orgasms or none at all - women may also have painful intercourse due to genital infections or lack of lubrication | This means they are not able to penetrate the vagina. |
| CC17. List 2 or more ways to prevent or delay sexual health problems. | Some things people can do to prevent or delay sexual health problems are: • keep blood sugar at target goal | Ask participants if they have any idea for preventing sexual health problems List responses. Provide practical, specific tips to |
| | report symptoms early see a health care provider at least every 6 months drink less alcohol stop tobacco use | control blood sugar. Focus on small steps in changing lifestyle habits that lead to bigger changes they can stick with. |
| CC18. Discuss how sexual health problems are treated. | There are medical treatments available for sexual health problems if needed. Treatment may include: • keeping blood sugar at target goal • counseling • medicine changes • hormone regulation • penile implants • Viagra | |
| CCIO Di Company | treating vaginal infections and lack of vaginal lubrication Sexuality is a natural part of life. | Acknowledge that talking about |
| CC19. Discuss ways to talk about sexual concerns with significant others and members of the health care team. | It brings pleasure, closeness and a special communication between two people. If a person is having problems, it is important to seek help. | Acknowledge that talking about sexual concerns may be difficult for participants. |

| Objective | Content | Educator's Notes |
|--|---|--|
| CC19. (continued) | People need to talk with a health care provider or someone they trust. | Discuss or role-play options for talking about sexual health problems depending on interests of participants |
| | | Provide local resource list. |
| CC20. Define periodontal disease in their own words. | Periodontal disease means gum disease. | Ask, "How would you define gum disease?" List responses. |
| | People with diabetes have more chance of having gum disease. There are things people with | Visual #17: Taking Care of Your Teeth and models of teeth and gums |
| | diabetes can do to prevent, delay or treat it. | People with diabetes have more chance of losing their teeth. |
| | High blood sugar can cause gum disease. Changes in the gums/teeth happen slowly and usually in this order: | |
| | plaque builds up on teeth, between the teeth and under the gums plaque build-up can destroy | Everyone has bacteria in their mouth. If these bacteria are not removed (by brushing, rinsing and flossing) they form plaque. |
| | gums and bone the gums pull away from the teeth and pockets form around the teeth | If plaque builds up, it inflames the gums. This early change is called gingivitis. |
| | the disease spreads into the bone that supports the teeth- once the bone support is gone, the tooth will loosen and fall out | |
| | Symptoms of gum disease include: gums bleed when a person brushes their teeth or eats bad breath gums are soft, swollen, red or hurt when touched | People with dentures may notice a change in how they fit. |
| | gums are pulled away from their teeth pus comes out from gums when they are pressed with fingers teeth are loose | |

| Objective | Content | Educator's Notes |
|--|--|--|
| CC20. (continued) | teeth have shifted position | |
| CC21. List 2 or more ways to prevent or delay gum/ teeth problems. | Some things people can do to prevent or delay gum disease are: | Ask participants if they have any ideas for preventing gum disease. List responses. |
| | keep blood sugar at target goal prevent plaque build-up by brushing teeth 2 times a day or more, 5 minutes each time talk with the dental team about | Provide practical, specific tips to control blood sugar. Focus on small steps in changing lifestyle habits that lead to bigger changes they can stick with. |
| | other ways to prevent plaque | |
| | build-upuse dental floss daily | Visual #17: Taking Care of Your Teeth |
| | see a dentist at least once a year and more often if needed | People with dentures still need to see a dentist every year. |
| CC22. Discuss how periodontal disease is treated. | There are medical treatments available for gum disease if needed. Treatment may include: • keeping blood sugar at target goal • medicines | Some people may need to take antibiotics for gum disease. |
| | special teeth and gum care, including special procedures for cleaning teeth seeing a dentist often | Provide local resource list for care of teeth and gums. |
| CCGS. State or write at least one behavior change that will help lower their risk for diabetes complications. | Making changes in health habits to lower the risk for diabetes complications is easier when plans are broken down into small, easy-to-do steps. | Visual #18: My Health Status and Visual #19: Changes I Can Make Using My Health Status, assist participants to write or state at least one thing they will do to lower their |
| | Think about making changes in one or more of these or other areas: • keep blood sugar, blood pressure and blood fats at target goal | risk for diabetes complications, based on their identification of risk factors. See Session 3: Making Healthy Changes |

| Objective | Content | Educator's Notes |
|-------------------|--|------------------|
| CCGS. (continued) | avoid other risk factors be more active stay in close contact with the health care team report symptoms right away get recommended tests and exams | |

Section 3: Summary

| Objective | Content | Educator's Notes |
|---|--|--|
| CC23. Describe the need for all people with diabetes to get yearly tests, exams and immunizations | Most of the long-term problems of diabetes can be treated better if they are found early. | Ask participants to share past experiences with getting needed tests and exams. |
| | Regular examinations are needed, especially of the eyes, kidneys, feet and heart, to check for problems. | Emphasize the importance of asking their health care provider for these. |
| | The tests needed every year include: • urine test to check for protein • blood test to check blood fat level (lipid profile) and kidney function (creatinine) | Visual #18: My Health Status Assist participants to complete My Health Status and initiate appropriate referrals as needed. |
| | The examinations needed every year include: • routine physical • eye exam • dental exam • foot exam to check feeling in the feet • breast and pelvic exam (women) • mammogram (women) • rectal exam | Other tests may be needed for general health screening. |
| | Immunizations needed include: • flu vaccine every year | |

| Objective | Content | Educator's Notes |
|--|---|---|
| CC23. (continued) | pneumonia vaccine at least once | Vaccinate at diagnosis. All people 65 years or older need to be revaccinated if it has been 5 or more years since their first vaccination and were under 65 when first dose was given. Revaccination 5 years after first dose is considered for people at high risk for infection. |
| | tetanus vaccine every 10 years TB skin test once after diagnosis | Hepatitis B vaccine is also needed for people with renal disease. |
| CC24. Identify their risk factors for diabetes complications. | Risk factors for complications that people can control include: • high blood sugar • high blood pressure • high blood fats • tobacco use • alcohol use • being overweight • stress | Ask, "What are your risk factors for diabetes complications?" Provide local resource list with information on smoking cessation, alcohol counseling, weight loss groups, stress management, support groups, etc. |
| CCGS. State or write at least one behavior change that will help lower their risk for diabetes complications. | Making changes in health habits to lower the risk for diabetes complications is easier when plans are broken down into small, easy-to-do steps. Think about making changes in one or more of these or other areas: • keep blood sugar, blood pressure and blood fats at target goal • avoid other risk factors • be more active • stay in close contact with the health care team • report symptoms right away • get recommended tests and exams | Visual #18: My Health Status and Visual #19: Changes I Can Make Using My Health Status, assist participants to write or state at least one thing they will do to lower their risk for diabetes complications, based on their identification of risk factors. See Session 3: Making Healthy Changes. |



SKILLS CHECKLIST

Each participant will be able to identify their risk factors for diabetes complications and identify at least one thing they can do to lower their risk for diabetes complications.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by identifying at least one change to make for lowering risk of diabetes complications. Application of knowledge can also be evaluated through Diabetes and Real Life Activities. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





You are at the clinic for your regular 3-month diabetes care appointment. Your health care provider tells you that it is time for your yearly check-up. He asks you to schedule a longer appointment for your next visit so you can get several things done to meet "standards of care" and stay healthy with diabetes.

| | What does the health care provider mean by "standards of care"? Why is it important for you to "meet them"? |
|---|--|
| - | - I was a supposed to the supp |
| _ | |
| - | |
| _ | |
| у | What are some of the tests/exams/immunizations you might need at our next visit if you have not had them done in the past year? What re some questions to ask your health care provider about them? |
| _ | |
| _ | |
| _ | |
| | Iow would you make sure you have your tests/exams/immunization very year? |
| _ | |
| _ | |
| | |



You are at the clinic for your regular 3-month diabetes care appointment. Your health care provider tells you that it is time for your yearly check-up. He asks you to schedule a longer appointment for your next visit so you can get several things done to meet "standards of care" and stay healthy with diabetes.

 What does the health care provider mean by "standards of care"? Why is it important for you to "meet them"?

Standards of care are tests/exams/immunizations that diabetes experts agree need to be done at regular times in order to prevent/delay diabetes complications and/or find diabetes complications early so treatment can be started right away. It is important to get them done or "meet the standards" to give yourself the best chance to stay healthy with diabetes.

2. What are some of the tests/exams/immunizations you might need at your next visit if you have not had them done in the past year? What are some questions to ask your health care provider about them?

Most of the long-term problems of diabetes can be treated better if they are found early. Regular examinations are needed, especially of the eyes, kidneys, feet and heart, to check for problems.

The tests needed every year include:

- urine test to check for protein
- blood test to check blood fat level (lipid profile) and kidney function (creatinine)

The examinations needed every year include:

- · routine physical
- eye exam
- · dental exam
- · foot exam to check feeling in the feet
- · breast and pelvic exam (women)
- · mammogram (women)
- rectal exam

Immunizations needed include:

- · flu vaccine every year
- pneumonia vaccine at diagnosis and again at age 65, if it has been 5 years or more since first dose
- · tetanus every 10 years
- TB skin test once after diagnosis
- How would you make sure you have your tests/exams/immunizations every year?
 Some of the ways to make sure tests/exams/immunizations are done on schedule include:
 - Some of the ways to make sure tests/exams/immunizations are done on schedule include:
 - carry a record of test/exams/immunizations on a wallet card you carry—this
 can remind you of what is needed and when
 - schedule your yearly tests and exams on the same day each year
 - ask your health care provider at every visit if you are up-to-date with your test/exams/immunizations





SESSION

Taking Care of Your Feet

DM-FTC Taking Care of Your Feet

STATEMENT OF PURPOSE

This session provides participants with diabetes foot care information. The intent of the session is to give participants the skills needed to avoid problems with their feet.

PREREQUISITES

DM-FTC1

DM-FTCGM

DM-FTCGNM

None

LEARNING OBJECTIVES

| DM-FTC2 | Identify 2 or more risk factors for foot problems. |
|-----------|---|
| DM-FTC3 | List 2 or more daily self-care actions to prevent foot problems. |
| DM-FTC4 | Describe how to cut toenails correctly. |
| DM-FTC5 | Describe 2 or more things to look for when choosing proper footwear. |
| DM-FTC6 | State 2 or more signs and symptoms of foot and skin infections. |
| DM-FTC7 | State when to contact the diabetes team about foot problems and infections. |
| DM-FTC8 | State the reason for routine foot exams at each clinic visit and yearly foot screening. |
| DM-FTCGS | Demonstrate a personal foot exam and state a personal foot care plan. |
| DM-FTCGNS | Behavior goal not set (follow-up). |
| | |

State one or more reasons to check feet every day

Behavior goal met (follow-up). Behavior goal unmet (follow-up).

CONTENT

Foot care

MATERIALS NEEDED

Visuals

- #1 Taking Care of Your Feet
 - #2 Cutting Your Toenails
- #3 Footwear for People With Diabetes
- #4 Look at Your Feet
- #5 Changes I Can Make
- #6 Treat Your Feet in a Good Way

Additional

Video on foot care, foot self-inspection

Local resource list for smoking cessation

Local resource list for alcohol counseling

Local resource list for foot care

Hand mirror

Samples of foot lotions and foot care instruments

Samples of products harmful to the feet

Sensory monofilament

Foot model to show nerves, blood vessels, etc.

Samples of footwear

METHOD OF PRESENTATION

Start by introducing yourself. Use a creative ice breaker. (See Introduction p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves and how they live with diabetes. Explain that the purposes of this session are to provide information about the importance of foot care and healthy foot care habits and to develop a personal foot care plan.

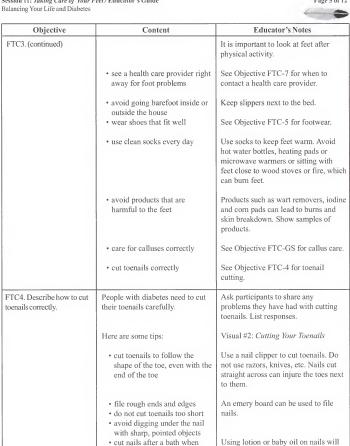
Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate discussion. Have a variety of teaching tools available based on participants' learning needs. Be creative and encourage interaction. A videotape may be shown to introduce content if available. If participants are comfortable, ask them to remove their shoes and socks. This helps participants practice foot care skills and allows interaction and feedback.



CONTENT OUTLINE

| Objective | Content | Educator's Notes |
|--|---|---|
| FTC1. State one or more reasons to check feet every day. | People with diabetes need to check their feet every day because: | Visual #1: Taking Care of Your Feet |
| every day. | they may see problems that they might not be able to feel | People with diabetes may be less sensitive to heat, cold and pain. They can have skin and foot problems and not feel them. |
| | | People with diabetes may have less blood flow to the legs and feet. Small cuts heal slowly or not at all. |
| | they may find problems and get help for them early | |
| | they may prevent amputations | |
| | The diabetes team can also help check feet. Ask for a foot check at every visit. | Stress the importance of taking shoes and socks off when in the health care provider's examination room. |
| FTC2. Identify 2 or more risk factors for foot problems. | Risk factors are things that increase a person's chance of having problems. | Ask participants if they have any ideas for preventing foot problems. List responses. |
| | Risk factors for foot problems include: | |
| | high blood sugar for many years | Having high blood sugar for many years can damage nerves and blood vessels. |
| | loss of feeling in the feet decreased blood flow to feet | Some people cannot feel touch, heat, cold or pain. |
| | foot ulcers in the past change in the shape of toes or feet toe or foot amputations in the past | Health care providers do yearly foot exams to help identify degree of risk. See Objective FTC-8. |
| | decreased vision or decreased flexibility (cannot see feet) | A mirror can be placed on the floor and the foot held over the mirror to look at the feet. |

| Objective | Content | Educator's Notes |
|--|---|--|
| FTC2. (continued) | | A family member can check the feet for someone who cannot see them. |
| | tobacco use | Tobacco use can increase risk for small blood vessel damage. |
| | excessive alcohol use use of some illegal drugs | |
| | shoes that do not fit well | Worn out shoes, shoes with pointed toes and shoes that are too tight can cause too much pressure on one part of the foot. This can lead to foot injury and ulcers. |
| | foot injury unclean feet | Foot injury includes pressure, friction, blisters and other trauma. |
| | The more risk factors a person has, the more chance they will develop a problem with their feet. | |
| FTC3. List 2 or more daily self-care actions to prevent foot problems. | People with diabetes can prevent foot problems. Here are some things a person can do: | Ask, "What do you do now to take care of your feet?" List responses and discuss. |
| | keep blood sugar at target goal | Review target blood sugar goals. |
| | wash feet daily with mild soap and warm water, gently pat feet dry and dry well between the toes - this can be done in a bath, shower or quick soak | Test the water first with your wrist or elbow to prevent burning your feet. Remind participants that soaking the feet dries the skin. |
| | apply lotion or foot cream to soles of feet | Use lotion without perfume or alcohol in it. Avoid lotion between toes. |
| | avoid things (risks) that make foot problems more likely | See Objective FTC-2 for risks. |
| | avoid tobacco drink less alcohol | Provide information on tobacco cessation and alcohol counseling. |
| | look at feet every day | See Objective FTC-GS for foot inspection. |



they are clean, soft and easier

to trim

make them easier to cut.

| Objective | Content | Educator's Notes |
|--|--|---|
| FTC4. (continued) | use a good light when cutting nails | |
| | Have a foot doctor (or foot care specialist at clinic) cut toenails if: | A foot doctor is also called a podiatrist. |
| | they are too thick they split or crack when they are cut the person cannot see to cut toenails | Provide information on local foot care resources. |
| | A person with loss of feeling in their feet needs to check with their health care provider about cutting their own nails. | |
| FTC5. Describe 2 or more things to look for when choosing proper footwear. | Proper footwear supports, protects and covers the feet. | Visual #3: Footwear for People with Diabetes |
| onousing proper rootwear. | People with diabetes need to choose shoes: | Ask, "What kind of shoes works best for you?" List responses. |
| | made of leather or canvas | These allow the foot to "breathe." Avoid plastic or rubber shoes. |
| | with laces or straps | Shoes with laces or straps provide better support than a slip-on shoe such as a loafer. |
| | with a smooth lining on the inside | Avoid shoes with rough seams. Seams can cause pressure and sores on skin. |
| | with a round toe box | These shoes provide more room than shoes with a pointed toe, so there is less pressure on toes. |
| | • with a low heel | Avoid shoes with a heel higher than 11/4 inches. |
| | with a firm heel | Firm heels provide protection and support. |
| | with soft insoles | Insoles that can be removed are best. |

| Objective | Content | Educator's Notes |
|-------------------|---|---|
| FTC5. (continued) | • that fit well | Shoes need to be chosen for their fit, not their size. Shoes need to be long enough and deep enough, so that a person can wiggle their toes. Have participants trace their shoes an their feet without shoes, on pieces of heavy paper. Compare the sizes of their feet and shoe tracings. If their foot tracing bends when put in their shoe, the shoe is too small for their feet. |
| | Avoid wearing shoes that may cause problems for the feet for long periods of time, such as sandals, moccasins and cowboy boots. Some people who already have problems with their feet may need to buy special shoes. | Some cowboy boots without pointed toes may be okay. Discuss situations where people might need to wear cowboy boots, sandals or moccasins. Explore things they could do to help them do this safely. |
| | People with diabetes need to buy shoes carefully. Here are some tips: • shop for shoes in the late afternoon or evening | Your feet are more swollen at the end of the day than when you first get up |
| | ask the salesperson for shoes that will help people with diabetes have the shoe salesperson | This may be appropriate in shoe stort where special shoes are available. |
| | measure both feet • test the shoe fit by wearing them at least 5 minutes in the store | If shoes hurt when worn in the store, do not buy them. |
| | break new shoes in slowly by wearing them for only 1 or 2 hours a day at first | Never wear new shoes all day. |

| Objective | Content | Educator's Notes |
|---|---|--|
| FTC5. (continued) | check feet for redness and irritation | If the shoes are causing redness or irritation, return them as soon as possible. |
| | if a person has lost feeling in their feet, a pattern cut from heavy paper can be put into shoes when shopping to help ensure fit | Demonstrate. |
| | Here are other things that are important to do with shoes and socks: | |
| | shake out shoes and feel inside them with the hand to check for cracks, tears, rocks, nails or sand | Demonstrate and ask participants to do this along with you. Caution participants that they may not be able to feel objects in their shoes if they have lost feeling in their feet. |
| | check the heels and soles of shoes for signs of wear | Ask a health care provider to help with deciding if shoes are worn or damaged. Replace or repair shoes if they are worn out. |
| | never wear wet or damp shoes | Treat washed shoes like new shoes since they may shrink or change shape. If a person's feet sweat a lot, shoes may need to be changed often. |
| | wear socks with shoes | Clean cotton or wool socks are best. |
| | do not wear socks that are too tight around the top | This can decrease blood flow. |
| | do not wear socks that are mended | This can cause sores. |
| FTC6. State 2 or more signs and symptoms of foot and skin infections. | Look for signs and symptoms of infection every day. They are: • redness • swelling • warm to touch • pain or soreness | Ask, "What are signs and symptoms of infection?" List responses. |
| | drainage from a blister, cut or sore | Blood or drainage might be noticed on socks. |



| Objective | Content | Educator's Notes |
|---|---|--|
| FTC6. (continued) | foul odor athlete's foot high blood sugar | |
| | High blood sugar can make it harder for the infection to heal and can make the infection more | Point out that high blood sugar may be an early sign of infection. |
| | serious. | High blood sugar slows the work of the white blood cells which fight infection, so a small infection can spread faster or become harder to treat, when blood sugar is high. |
| FTC7. State when to contact the diabetes team about foot problems and infections. | People with diabetes need to call their health care provider right away if: | Provide information on local resources for foot care. |
| , | they have signs or symptoms of infection | See Objective FTC-6. |
| | | If feet are hurt, stay off them as much as possible. |
| | • they have a cut | See a health care provider right away if there is a large cut, deep puncture cut or dirty cut. In some cases, health care providers may recommend that a person care for small cuts that are not deep at home as follows: • use mild soap and water to clean cuts and scrapes • if a bandage is needed, wrap sterile gauze loosely around the cut area or use a Band-Aid bandage • remove the bandage carefully and check the cut every day • call a health care provider right away if it is not healing in 2 days or it is getting worse Talk to a health care provider about a plan for caring for cuts. |
| | they have a blister caused by a shoe or sock rubbing that has opened | It is best to let blisters heal by themselves. If a blister is larger than a small pea or has opened, see a health |

| Objective | Content | Educator's Notes |
|---|---|---|
| FTC7. (continued) | It is important to get treatment right away and not wait for an injury to heal on its own. | care provider. |
| FTC8. State the reason for routine foot exams at each clinic visit and yearly foot screening. | Foot exams at each clinic visit are needed because: • the health care provider may find a problem the person did not know about - medical care can be started early • changes in feeling in the feet may be found early | Foot exams at each clinic visit include: inspection pulse check skin temperature check Remember to take shoes and socks off at every visit to the health care provider. Ask for an exam if the provider forgets to look at the feet. A referral to a foot doctor may be needed if there are any problems or changes. |
| | A yearly foot exam at the clinic is needed. The health care provider can check for: • loss of feeling in the feet • change in the shape of feet or toes • change in the blood flow to the feet • other risk factors | Yearly foot screening includes: inspection sensory monofilament and other tests pulse check observation of pressure points with weight bearing possible dopler studies Show SW 5.07 monofilament and demonstrate testing. |
| | Action can be taken to protect feet if someone has these things. | A referral to a foot doctor may be needed for special shoes. Provide information about local resources for foot care. |
| FTCGS. Demonstrate a personal foot exam and state a personal foot care plan. | A personal foot exam includes the following: • look at feet after a shower or bath | Visual #4: Look at Your Feet Demonstrate a personal foot exam and ask participants to do it along with you on their feet. Show examples of tools helpful for foot examination and care. |
| | look at the bottoms, tops, sides and between the toes | The bottom of the big toe and the soles get the most wear from walking. Show |

| Objective | Content | Educator's Notes |
|--------------------|--|--|
| FTCGS. (continued) | | the 6 areas to check for pressure. Use a mirror to look at the bottoms of the feet if needed. |
| | look between the toes for cracks, peeling skin, blisters or a change in color | Breaks in the skin can lead to infection. It is important to look for infection because a person may not be able to feel the pain or soreness of an infection. |
| | look for corns, calluses, blisters or redness - some corns and calluses can be treated at home, many need help from a foot care specialist to reduce them | Corns and calluses can be rubbed lightly each day with a pumice stone. Use the pumice stone carefully so skir is not damaged. Avoid harsh corn removers or cutting the callus with a knife or razor blade. Padding the corn helps to relieve pressure. |
| | | These may be signs that a person's shoes are rubbing and do not fit well. A change in shoe style or wearing different shoes may be needed. Remind participants that proper footwear protects their feet. |
| | look for ingrown toenails | Soft skin around the nail can grow over the edge of the nail and the growing nail injures the skin. |
| | check the entire foot for dryness, especially around the heels | If there is dry skin, rub on cream or lotion. Do not put lotion between toes. If the feet sweat a lot, dust on talcum or baby powder. |
| | | Refer participants to local resources as appropriate for any foot problems noted during inspection. |
| | Making changes in health habits, such as better personal foot care, | Visual #5: Changes I Can Make |
| | is easier when plans are broken down into small, easy-to-do steps. | Ask participants to think about what they already do each day to protect their feet and what could they add. |

| Objective | Content | Educator's Notes |
|--------------------|---------|---|
| FTCGS. (continued) | | Ask participants to state or write their personal foot care plan. |
| | | See Session 3: Making Healthy Changes. |
| | | Distribute Visual #6: Treat Your Feel in a Good Way |

SKILLS CHECKLIST

Each participant will be able to demonstrate a personal foot exam and state or write a personal foot care plan.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by the development and implementation of their personal foot care plan and a demonstration of a personal foot exam. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





You bought a new pair of shoes 2 days ago. You decided to wear them for the past 2 days because they felt fine and were not making your feet sore. When you took your shoes off tonight you noticed some red spots on both your feet and a blister on the side of the big toe on your right foot.

| | hat would you do about the red areas and blister on your foot? hen would you contact your health care provider for foot problems: |
|-----|---|
| sho | re you concerned that you did not feel any soreness with your new bes? How would you check for feeling in your feet? If you have creased feeling in your feet, what would you do? |
| | hat would you do differently the next time you buy a new pair of pes? What type of shoes would you choose? How would you break in |





You bought a new pair of shoes 2 days ago. You decided to wear them for the past 2 days because they felt fine and were not making your feet sore. When you took your shoes off tonight you noticed some red spots on both your feet and a blister on the side of the big toe on your right foot.

1. What would you do about the red areas and blister on your foot? When would you contact your health care provider for foot problems?

These may be signs that your shoes are rubbing and do not fit well. You may need to change shoe style or wear different shoes. People with diabetes need to see their health care provider right away if they have a cut or blister or have signs or symptoms of infection. Discuss local policies on care of red areas and blisters. It is best to let blisters heal by themselves. If a blister is larger than a small pea or has opened, see your health care provider. Discuss how they can be seen in their facility the same day as needed.

Are you concerned that you did not feel any soreness with your new shoes? How would you check for feeling in your feet? If you have decreased feeling in your feet, what would you do?

Yearly foot screening includes inspection, testing for feeling with a sensory monofilament (SW 5.07 monofilament) and other tests, pulse check, observation of pressure points with weight bearing and possible dopler studies. Daily personal foot exams are needed to look for changes and infection because you may not be able to feel them. Special care from a foot doctor is needed when there is a loss of feeling in the feet.

3. What would you do differently the next time you buy a new pair of shoes? What type of shoes would you choose? How would you break in your new shoes?

People with diabetes need to buy new shoes carefully. They need to shop for shoes in the afternoon, tell the shoe salesperson they have diabetes, have the salesperson measure both feet and test the shoe fit by wearing them at least 5 minutes in the store. If your feet are numb, a pattern of the feet cut from heavy paper can be put into shoes when shopping to help ensure fit. Proper footwear supports, protects and covers the feet. People with diabetes need to choose shoes that fit well and are made of leather or canvas with laces or straps, a smooth lining on the inside, a round toe box, a low firm heel and soft insoles. Avoid wearing shoes that may cause problems for the feet for long periods of time, such as sandals, moccasins and cowboy boots. People with diabetes need to break new shoes in slowly by wearing them for only 1-2 hours a day at first and check feet for redness and irritation every time they remove their shoes and socks. If shoes hurt when you try them on, do not buy them. Never wear new shoes all day. If the shoes are causing redness or irritation, return them as soon as possible.





SESSION

Planning for **Pregnancy**

DM-PPC **Preconception Care**

STATEMENT OF PURPOSE

This session provides information about preconception care for women with diabetes.

PREREQUISITES

DM DDC1

DM-PPCGM

It is recommended that participants have a basic understanding of both diabetes and pregnancy.

Describe the need to reach target blood sugar goal before becoming as

LEARNING OBJECTIVES

| DIVI-I I CI | Describe the need to reach target blood sugar goal before becoming pregnant. |
|-------------|--|
| DM-PPC2 | Identify 2 or more ways to reach target blood sugar goal before becoming pregnant. |
| DM-PPC3 | State that insulin injections may be needed to reach target blood sugar goal before |
| | becoming pregnant. |
| DM-PPC4 | State 2 potential problems for the baby if pregnancy occurs while the mother's blood |
| | sugar is high. |
| DM-PPC5 | State 2 potential problems for the mother during pregnancy. |
| DM-PPC6 | State the need to use birth control until ready to become pregnant. |
| DM-PPC7 | State the need to seek early prenatal care. |
| DM-PPC8 | State the need to avoid tobacco, alcohol and drugs before and during pregnancy. |
| DM-PPC9 | Identify community resources to support families before, during and after pregnancy. |
| DM-PPCGS | State or write a personal plan to prepare for pregnancy. |
| DM-PPCGNS | Behavior goal not set (follow-up). |

Behavior goal met (follow-up). DM-PPCGNM Behavior goal unmet (follow-up).

CONTENT

Preconception care

MATERIALS NEEDED

Visuals

- #1 Planning for Pregnancy When You Have Diabetes
- #2 Target Blood Sugar Goals for Pregnancy
- #3 Diabetes and Family Planning
- #4 Getting Ready for Pregnancy #5 So Many Blessings
- #6 Changes I Can Make

Additional

Picture/poster of baby in womb Samples of birth control methods

Resource list for tobacco cessation, alcohol/drug counseling and prenatal care

METHOD OF PRESENTATION

Preconception information needs to be provided to all women of childbearing age with diabetes who can become pregnant. Identify the target audience and provide this information as a separate class, or one-on-one session, for them.

Start by introducing yourself. Use a creative ice breaker. (See Introduction on p. XIII for examples.) You may want to ask participants to introduce themselves and share something about themselves, their family and how they live with diabetes. Explain that the purpose of this session is to provide information about planning for pregnancy.

Use facilitated group discussion to present material. Encourage participants to share stories and ask questions to facilitate the discussion. A video could also be shown to introduce content if available.



| Objective | Content | Educator's Notes |
|--|---|--|
| PPC1. Describe the need to reach target blood sugar goal before becoming pregnant. | Planning for pregnancy protects the mother's and baby's health. This is especially important when the mother has diabetes. | Ask, "Will this be your first pregnancy? Do you have other children?" List responses. Visual #1: Planning for Pregnancy When You Have Diabetes, p. 1-2 and Visual #4: Getting Ready for Pregnancy |
| | As soon as a woman becomes pregnant, the sugar in her blood goes to the baby so that the baby can grow and develop. | The mom's sugar is food for the baby. |
| | If the mother's blood sugar is high, the baby's blood sugar is high. High blood sugar can cause problems for the baby. | Blood sugar that stays high for severa days or longer can hurt the baby. |
| | Keeping blood sugar at target goal before pregnancy and at the time she becomes pregnant, helps a woman have a healthy | A woman may not know if she is pregnant for the first few weeks of pregnancy. |
| | pregnancy and a healthy baby. | Other things besides blood sugar may affect pregnancy outcomes, including tobacco/drug/alcohol use, medicines, health problems, etc. |
| | Blood sugar goals for women who are planning pregnancy are: | Visual #2: Target Blood Sugar Goals for Pregnancy and Visual #1: Plannin for Pregnancy When You Have Diabetes, p. 7 |
| | • A1c: 6% or less | Review what an A1c is. Ask, "What is your A1c now?" |
| | | The A1c needs to be in the "normal la range" to provide a healthy environment to become pregnant. |
| | fasting blood sugar: 60 to 90 mg/dl | These goals are for whole blood glucose. Add 10-15% to convert these |

| Objective | Content | Educator's Notes |
|---|--|---|
| PPC1. (continued) | | numbers to plasma glucose. |
| | blood sugar 1 hour after meals: 100 tol 40 mg/dl blood sugar 2 hours after meals: 100 tol 20 mg/dl | Blood sugar goals during pregnancy are the same. |
| | It is important for each woman to talk with her health care provider about target goals. | Recommended goals may vary. Provide information appropriate for the participants and facility. |
| PPC2. Identify 2 or more ways to reach target blood sugar goal before becoming pregnant. | These are ways to reach target blood sugar goal before becoming pregnant: | Visual #1: Planning for Pregnancy When You Have Diabetes, p. 6-8 Ask, "What helps you reach your |
| | | target blood sugar goal now?" List responses. |
| | make healthy food choices | Meet with a dietitian for an individual meal plan when planning a pregnancy |
| | be more active | Assess current level of physical activity and make physical activity a part of the daily routine before becoming pregnant. Balancing activit with food choices and insulin, if taken, will be needed. Check with a health care provider about what activities are best. |
| | check blood sugar often | Check blood sugar at least 4 times a day to be sure the target goal is reached before becoming pregnant. |
| | take insulin if needed | See Objective PPC-3. |
| | work with the diabetes team | Start working with the prenatal diabetes team before becoming |
| | When blood sugars are at target goal for 2-3 months, it is safe to become pregnant. | pregnant. See Objective PPC-9. |

| Objective | Content | Educator's Notes |
|---|---|--|
| PPC3. State that insulin injections may be needed to reach target blood sugar goal before becoming pregnant. | If a woman is not able to reach target blood sugar goal with food choices and physical activity, she will need to take insulin. | Ask, "What are your feelings or fears about taking insulin?" List responses. Visual #1: Planning for Pregnancy When You Have Diabetes, p. 8 and Visual #5: So Many Blessings |
| | Some diabetes pills may harm the developing baby. | Insulin injections do not harm the baby. |
| | | Other medicine, such as ACE inhibitors, may need to be changed before becoming pregnant. |
| | A woman taking diabetes pills needs to change to insulin before becoming pregnant. | The amount of insulin you need may change after you become pregnant. |
| PPC4. State 2 potential problems for the baby if pregnancy occurs while the mother's blood sugar is high. | If a woman becomes pregnant while her blood sugar is high, problems that can happen are: birth defects miscarriage | Visual #1: Planning for Pregnancy When You Have Diabetes, p. 3 |
| | Because the baby's organs are formed during the first 8 weeks of pregnancy, the chance for birth defects is greatest if blood sugar is high at this time. This may be before a woman knows she is pregnant. | Stress that women can reduce their chances for these problems by keeping their blood sugar at target goal at the time they become pregnant. |
| PPC5. State 2 potential problems for the mother during pregnancy. | Pregnancy may make some of the long-term problems of diabetes worse, including: • kidney problems (nephropathy) • eye problems (retinopathy) • heart disease • high blood pressure | Visual #1: Planning for Pregnancy When You Have Diabetes, p. 4 |
| | A woman with diabetes needs a medical check-up before she becomes pregnant to check for long-term problems from diabetes. | Your health care provider will check your blood pressure, heart, blood vessels, thyroid, nerves and kidneys. An eye doctor will do a dilated eye exam. |

| Objective | Content | Educator's Notes |
|---|--|---|
| PPC5. (continued) | If a woman already has long-term problems from diabetes, she can talk with the health care provider about the effect of pregnancy on them and if special care is needed. | |
| PPC6. State the need to use birth control until ready to become pregnant. | Birth control can prevent pregnancy until: • blood sugar is at target goal • medical evaluation is complete | Visual #3: Diabetes and Family Planning and Visual #1: Planning for Pregnancy When You Have Diabetes, p. 10-11 |
| | mother and family are ready for the demands of prenatal care | Provide local family planning resource list. |
| | Types of birth control include: • birth control pills/patch • foam and condom • abstinence (no sex) • diaphragm with jelly • depoprovera shots Methods for women who do not want to get pregnant for a long time are: • Hormonal implant • IUD Permanent birth control includes: • tubal ligation for women • vasectomy for men | Show samples of different methods if appropriate. Encourage women to talk to their health care provider about which method is best for them. |
| PPC7. State the need to seek early prenatal care. | It is important for a woman to know if she is pregnant so she can: • continue healthy behaviors • start prenatal care right away If blood sugar is not at target goal at the start of pregnancy, early treatment and starting healthy behaviors can help achieve a healthy pregnancy and healthy baby. | Ask, "What are some signs and symptoms of pregnancy?" List responses. Visual #1: Planning for Pregnancy When You Have Diabetes, p. 11 |

| Objective | Content | Educator's Notes |
|--|---|--|
| PPC7. (continued) | A woman who thinks she might be pregnant needs to go to the clinic as soon as possible to get a pregnancy test. If the pregnancy test shows that a woman is pregnant, she will receive the following care right away: • a health assessment, including an exam and lab tests • nutrition counseling • diabetes education • prenatal education | Signs and symptoms of pregnancy may include: • late or missed period • nausea or vomiting • fatigue • dizziness • tender breasts Provide local resource list for pregnancy testing. Stress the importance of starting prenatal care right away with the prenatal diabetes team. |
| PPC8. State the need to avoid tobacco, alcohol and drugs before and during pregnancy. | Using tobacco, drugs and alcohol while pregnant can cause problems for the baby. Do not use these when becoming pregnant or during pregnancy. | Visual #1: Planning for Pregnancy When You Have Diabetes, p. 9 Provide local resource list for tobacco cessation and drug/alcohol counseling. |
| PPC9. Identify community resources to support families before, during and after pregnancy. | Pregnancy can be a happy time when a woman and her family look forward to good things ahead. Pregnancy is not always easy and there are many demands on the mother and her family. | Ask, "What are some of the things that you and your family might need support for during pregnancy?" List responses. |
| | Planning for pregnancy is easier when the mother and her family are part of a team. Team members include: • the pregnant woman and her family • obstetrician • pediatrician • diabetes nurse educator • dietitian • public health nurse | Discuss team members and their roles. Provide local <i>resource list</i> . |

| Objective | Content | Educator's Notes |
|---|--|---|
| PPC9. (continued) | social service staff behavioral health staff family planning center alcohol and drug abuse program | |
| PPCGS. State or write a personal plan to prepare for pregnancy. | Making changes in health habits, such as healthy behaviors when planning pregnancy, is easier when plans are broken down into small, easy-to-do steps. | Visual #5: So Many Blessings and Visual #4: Getting Ready for Pregnancy Visual #6: Changes I Can Make Assist participants to write or state at least one thing they will do to plan/prepare for pregnancy. See Session 3: Making Healthy Changes. |

SKILLS CHECKLIST

Each participant will be able to make a preconception plan.

EVALUATION PLAN

Knowledge will be evaluated by achievement of learning objectives and by responses to questions during the session. The ability to apply knowledge will be evaluated by the development and implementation of their personal preconception plan. Application of knowledge can also be evaluated through *Diabetes and Real Life Activities*. Evaluation will also include program outcome measures.

DOCUMENTATION PLAN

Record class attendance and objectives achieved. Document patient response on the PCC record using IHS Patient and Family Protocols and Education Codes.





Diabetes and Pregnancy



You are a woman with diabetes who has had nausea and tender breasts for a few days. You do not think you have missed a period, but you are not sure.

| - | |
|---------|---|
| _ If | you are pregnant, what would your health care provider do at th |
| fi | rst visit? |
| _ | |
| W | hat would you do to plan ahead for pregnancy? |
| | |





Diabetes and Pregnancy



You are a woman with diabetes who has had nausea and tender breasts for a few days. You do not think you have missed a period, but you are not sure.

1. How would you know if you are pregnant? Why would it be important to know?

As soon as a woman becomes pregnant, the sugar in her blood goes to the baby so that the baby can grow and develop. If the mother's blood sugar is high, the baby's blood sugar is high. High blood sugar can cause problems for the baby. If a woman becomes pregnant while her blood sugar is high, birth defects or miscarriage can happen. Because the baby's organs are formed during the first 8 weeks of pregnancy, the chance for birth defects is greatest if blood sugar is high at this time. This may be before a woman knows she is pregnant. It is important for a woman to know if she is pregnant so she can continue healthy behaviors and start prenatal care right away. If blood sugar is not at target goal at the start of pregnancy, early treatment and starting healthy behaviors can help achieve a healthy pregnancy and healthy baby. A woman who thinks she might be pregnant needs to go to the clinic as soon as possible to get a pregnancy test. Signs and symptoms of pregnancy may include late or missed period, nausea or vomiting, fatigue, dizziness and/or tender breasts.

2. If you are pregnant, what would your health care provider do at the first visit?

If the pregnancy test shows that a woman is pregnant, she will receive the following care right away:

- · a health assessment, including an exam and lab tests
- · nutrition counseling
- diabetes education
- prenatal education

3. What would you do to plan ahead for pregnancy?

Women can plan for pregnancy by reaching target blood sugar goals before becoming pregnant. They can do this with healthy food choices, being more active, checking blood sugar often, taking insulin if needed and working with the diabetes team. When blood sugars are at target goal for 2-3 months, it is safe to become pregnant. Avoid tobacco, alcohol and drugs before and during pregnancy.



CURRICULA

Albuquerque Diabetes Program Curriculum.

PHS Indian Hospital, 801 Vassar Drive NE, Albuquerque, NM, 87106, (505) 248-4017.

Claremore Diabetes Program Curriculum.

PHS Indian Hospital, Claremore, OK, 74017, (918) 342-6451.

U.S. Diabetes Conversation Maps®.

Healthy Interactions, Inc., Chicago, IL, 60610, http://www.healthyi.com/conversation-maps.aspx, 2007. A Conversation Map tool combines a series of images and metaphors on a 3-foot (1 meter) by 5-foot (1.5 meters) tabletop display. It serves as a facilitation tool for healthcare professionals to use to engage people in conversations around a healthcare topic such as diabetes, heart health or obesity. http://www.healthyinteractions.com/us/en/diabetes/hcp/about/conversationmaptools.

Funnell, Martha et al. <u>Life With Diabetes: A Series of Teaching Outlines by the Michigan Diabetes Research and Training Center</u>, Third Edition. American Diabetes Association, 2004.

International Diabetes Center. Type 2 Basics. Minneapolis, MN, 55416, 2005.

Muscogee (Creek) Nation Diabetes Program Curriculum.

Muscogee (Creek) Nation, PO Box 400, Okmulgee, OK, 74447, (918) 756-3334.

Strong in Body and Spirit! Type 2 Diabetes BASICS Curriculum/Starter Kit. Native American Diabetes Project. A Native-American Specific curriculum designed to be led by community health workers to help people aat healthy food and increase physical activity. http://www.laplaza.org/health/dwc/nadp/ International Diabetes Center. 3rd edition, 2009. Includes instructor's curriculum guide, easy-to-read patient book, and forms for collecting information and evaluation. http://www.parknicollet.com/healthinnovations/shopping/ProductDetail.cfm?productid =2058-BKIT.

Diabetes Education Curriculum: Guiding Patients to Successful Self-Management. AADE. 2009. Based upon the AADE7 Self-Care Behaviors framework, The AADE's Diabetes Education Curriculum: Guiding Patients to Successful Self-Management curriculum supports diabetes educators in their efforts to help people with diabetes and related conditions learn to make daily decisions about self-care that have a positive impact on their clinical outcomes and overall health status. The Curriculum is a CD-ROM product that contains a printable PDF.

Life with Diabetes: A Series of Teaching Outlines, 3rd edition. The Michigan Diabetes Research and Training Center has developed a curriculum which can be used to design and implement diabetes self-management education. This Curriculum meets current Standards for Diabetes Self-Management Education and is published and distributed by the American Diabetes Association (ADA).

IHS DIABETES EDUCATION MATERIALS

Indian Health Service Division of Diabetes Treatment and Prevention wants to share information in its publications and other communications media. IHS DDTP print publications and other media are available free of charge. Please visit the Online Catalog on our web site for the most up-to-date list of diabetes education tools:

http://www.diabetes.ihs.gov

BOOKLETS

| Title of Booklet | How Available: |
|---|----------------------|
| Diabetes and Native Americans | Booklet (25 per set) |
| Diabetes and Your Feelings | Booklet (25 per set) |
| Diabetes and Oral Pills | Booklet (25 per set) |
| Diabetes and Insulin | Booklet (25 per set) |
| Eye Damage "Retinopathy" | Booklet (25 per set) |
| Foot Wear for People with Diabetes | Booklet (25 per set) |
| How to Have a Healthy Baby | Booklet (25 per set) |
| How to Have a Healthy Heart | Booklet (25 per set) |
| Introduction to Insulin | Booklet (25 per set) |
| Kidney Daınage "Nephropathy" | Booklet (25 per set) |
| Medicines for People with Diabetes | Booklet (25 per set) |
| My Personal Care Record | Booklet (25 per set) |
| My Prenatal Care Record | Booklet (25 per set) |
| Planning for Pregnancy When You Have Diabetes | Booklet (25 per set) |
| Take Care of Your Teeth: Diabetes & Gum Disease | Booklet (25 per set) |
| Taking Care of Your Eyes | Booklet (25 per set) |
| Taking Care of Your Feet | Booklet (25 per set) |
| Taking Care of Your Heart | Booklet (25 per set) |
| Taking Care of Your Kidneys | Booklet (25 per set) |
| Taking Care of Yourself by Walking | Booklet (25 per set) |
| The Intimate Side of Diabetes | Booklet (25 per set) |
| What I Need to Know About Eating and Diabetes | Booklet (25 per set) |



IHS DIABETES EDUCATION MATERIALS (continued)

CURRICULA

| Title | How Available: |
|---|----------------|
| IHS Balancing Your Food Choices: Nutrition and Diabetes | Packet and CD |
| A supplement to the Balancing Your Life and Diabetes (BYLD) | |
| curriculum that addresses nutrition and diabetes. This supplement | |
| is intended for use with the BYLD curriculum. This curriculum is | |
| available in our Online Catalog described on p. 228. | |
| IHS Beautiful Beginnings: Pregnancy and Diabetes | Packet and CD |
| A supplement to the Balancing Your Life and Diabetes (BYLD) | |
| curriculum that addresses pregnancy and diabetes, including pre-gestational | |
| and gestational diabetes. This supplement is intended for use with the BYLD | |
| curriculum. This curriculum is available in our Online Catalog described on | |
| p. 228. | |
| IHS Diabetes Education for Tribal Schools (DETS): Grades K-12 | CD |
| IHS Honor the Gift of Food | Packet and CD |

NUTRITION

| Title | How Available: |
|---|----------------------|
| My Food Choices to Keep My Kidneys Healthy | Booklet (25 per set) |
| Traditional Foods Can be Healthy | Booklet (25 per set) |
| What I Need to Know About Eating and Diabetes | Booklet (25 per set) |
| Why All the Talk About Fat? | Booklet (25 per set) |
| Why All the Talk About Fiber? | Booklet (25 per set) |

IHS DIABETES EDUCATION MATERIALS (continued) POSTERS

| Title | How Available: |
|------------------------------------|--------------------|
| Protect the Gift of Vision | Poster – 50/bundle |
| Protect the Gift of Walking | Poster – 50/bundle |
| Respect the Gift of Dance | Poster – 50/bundle |
| Respect the Gift of Food | Poster – 50/bundle |
| Respect the Gift of Life | Poster-50/bundle |
| Respect Your Mind, Body and Spirit | Poster – 50/bundle |

MISCELLANEOUS

| Title | How Available: |
|---|-------------------------|
| A Basic Approach to the Diabetic Foot | Booklet |
| A River Runs Through Us | Book and 90-day journal |
| Gen 7 | Magazine (25 per set) |
| Health for Native Life | Magazine (25 per set) |
| Integrated Diabetes Education & Clinical Standards | Manual |
| Using Our Wit and Wisdom to Live Well With Diabetes | Book and audio CD |



IHS DIABETES EDUCATION MATERIALS (continued)

TABLETS/PAMPHLETS

| Title of Tablet/Pamphlet | How Available: |
|---|------------------|
| A1c Thermometer / Average Blood Sugar | 50 sheets/tablet |
| Choosing Good Foods | 50 sheets/tablet |
| Diabetes and American Indians: Are You at Risk? | 50 sheets/tablet |
| Diabetes and Family Planning | 50 sheets/tablet |
| Hidden Fats | 50 sheets/tablet |
| Hidden Fats and Sugars | 50 sheets/tablet |
| Hidden Sugars | 50 sheets/tablet |
| Know Your Blood Sugar | 50 sheets/tablet |
| Making Fry Bread More Healthy | 50 sheets/tablet |
| Meal Planning for Diabetes | 50 sheets/tablet |
| Nerve Damage to Heart and Blood Vessels | 50 sheets/tablet |
| Nerve Damage to the Bladder and Urinary System | 50 sheets/tablet |
| Nerve Damage to the Stomach and Intestine | 50 sheets/tablet |
| Numbness of Hands, Legs and Feet | 50 sheets/tablet |
| Sick Day Guide | 50 sheets/tablet |
| Tips on How to Cut Down on Fat | 50 sheets/tablet |
| Your Blood Sugar/Your Hemoglobin A1c | 50 sheets/tablet |

IHS Division of Diabetes Treatment and Prevention

5300 Homesead Road NE Albuquerque, NM 87110 Phone: (505) 248-4182 Fax: (505) 248-4188 Email: diabetesprogram@ihs.gov

PUBLICATIONS ORDER FORM

IHS Division of Diabetes Treatment and Prevention

Fax, mail, or email your request to:

| Date | | | | |
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Videos

Altschul Group Corporation

1560 Sherman Avenue, #100 Evanston, IL 60201 (800) 421-2363 (708) 328-6706

American Association of Diabetes Educators (AADE)

100 West Monroe Street, Suite 400 Chicago, IL 60603 (800) 338-3633 www.diabeteseducator.org

CC-M Productions (Armchair Fitness) 7755 16th Street NW

Washington DC 20012 (800) 453-6280

www.armchairfitness.com

LEAP Program (Feet)

4350 Bethel Road, Suite 208 Bethesda, MD 20814 (800) 400-2742 www.hrsa.gov/leap

Milner-Fenwick

2125 Greenspring Drive Timonium, MD 21093 (800) 432-8433 www.milner-fenwick.com

Oracle Film & Video 3309 Pico Blvd

Santa Monica, CA 90405 (310) 264-5974

(310) 264-5974 www.oraclefilmvideo.com

Pyramid Media

PO Box 1048/WEB Santa Monica, CA 90406 (800) 421-2304 www.pyramidmedia.com

Printed Materials

Association of American Indian Physicians Diabetes Program

Diabetes Education Resource Database 1225 Sovereign Row, Suite 101 Oklahoma, City, OK 73108 (877) 943-4299 www.aaip.org

American Diabetes Association (ADA)

1701 N. Beauregard Street Alexandria, VA 22311 (800) DIABETES www.diabetes.org

American Dietetic Association

120 S. Riverside Plaza, Suite 2000 Chicago, IL 60606-6995 (800)877-1600 www.eatright.org

Idaho Plate Method

2901 Campbell Lane Rock Springs, WY 82901 800.429.7279 www.platemethod.com

IDC Publishing

International Diabetes Center P.O. Box 650 Minneapolis, MN 55440 (800) 862-7412 www.parknicollet.com

Krames Patient Education

780 Township Line Road Yardley, PA 19067 (800) 333-3032 www.krames.com



OTHER DIABETES EDUCATION MATERIALS (continued)

National Diabetes Information Clearinghouse NIDDK

1 Information Way Bethesda, MD 20892-3560 (800) 860-8747 diabetes.niddk.nih.gov

National Diabetes Education Program (NDEP) One Diabetes Way

Bethesda, MD 20814-9692Atlanta, GA (888) 693-NDEP (6337) www.ndep.nih.gov Feet Can Last a Lifetime Kit (includes monofilament) Control Your Diabetes for Life (patient education pamphlets) Team Care: Comprehensive Lifetime

Management for Diabetes (Manual)

Pritchett and Hull

3440 Oakcliff Road NE #110 Atlanta, GA 30340-3079 (800) 241-4925 www.p-h.com

Seva Foundation

Native American Diabetes Project and Diabetes Talking Circles Project 1786 Fifth Street Berkeley, CA 94710 (877) 764-7382 www.seva.org

Models

Ideabetes 8 Southwood Drive Dover, NH 03820 (603) 749-3899 www.ideabetes.com

NASCO

901 Janesville Avenue Ft. Atkinson, WI 53538-0901 (800) 558-9595 www.eNasco.com

National Dairy Council

10255 W. Higgins Road, Suite 900 Rosemont, IL 60018-4233 (708) 696-1860 ext. 220 www.nationaldairycouncil.org

ICEBREAKERS

Books:

Newstrom J and Scannell E. <u>Games Trainers Play.</u> McGraw-Hill, 1980

Newstrom J and Scannell E. The Big Book of Presentation Games.

McGraw-Hill. 1998

Pfeiffer. The Encyclopedia of Icebreakers.
Pfeiffer and Co., 1983

Scannell E and Newstrom J. Even More Games Trainers Play.

McGraw-Hill, 1994

Scannell E and Newstrom J. Still More Games Trainers Play.

McGraw-Hill, 1994

West E. 201 Icebreakers. McGraw-Hill, 1997

IDENTIFICATION

Goldware PO Box 22335 San Diego, CA 92192 (800) 669-7311 www.medical-id.net/

IdentiFind 5465 Dutch Cove Road PO Box 567 Canton, NC 28716-0567 (828) 648-6768 www.identifind.com Medic Alert Foundation, US 2323 Colorado Ave Turlock, CA 95382 (888) 633-4298 www.medicalert.org

Medic IDs 2400 Cypress St, Suite 50-211 West Monroe, LA 71291 (318) 397-8441 www.medids.com

Wallet cards for documentation of tests/exams are available from the American Diabetes Association, some pharmaceutical companies and some State Diabetes Control Programs.



AMO Salina Community Clinic Cherokee Nation Diabetes Self Management Education Program

Rae Ann Meisenheimer, RN, DSME Coordinator 900 N Owen Walter Blvd

Salina, OK 74365 Phone: (918) 434-8648

Email: rae-meisenheimer@cherokee.org

Balancing Your Life and Diabetes Cattaraugus Indian Reservation Health Center

Lori Crassi, DSME Coordinator 36 Thomas Indian School Drive Irving, NY 14081 Phone: (716) 532-8223; Fax: (716) 532-2501 Email: fort.crassi@senecahealth.org

Being Responsible American Indians with Diabetes (BRAID) - Oklahoma City Indian Clinic

Cathy Waller, RD/LD, CDE, DSME Coordinator 4913 W Reno

Oklahoma City, OK 73127

Phone: (405) 948-4900; Fax: (405) 948-4919

Email: cathy.w@okcic.com

Cass Lake Diabetes Education Program

Roxanne Johnson, Interim DSME Coordinator 425 7th St NW

Cass Lake, MN 56633

Phone: (218) 335-3244; Fax: (218) 335-3300 Email: roxanne.iohnson@ihs.gov

Choctaw Diabetes Education Program

Lynda Johnson, DSME Coordinator 210 Hospital Circle

Choctaw, MS 39350

Phone: (601) 389-6221; Fax: (601) 389-1025

Email: lyndagjohnson@hotmail.com

Diabetes Education and Counseling Center New Onset Class Series

Mamie Denetclaw, BSN, RN, CDE, DSME Coordinator

Northern Navajo Medical Center/

Shiprock Service Unit Shiprock, NM 87420

Phone: (505) 368-6843; Fax: (505) 368-6103

Email: mamie.detnetclaw@ihs.gov

Diabetes Education Program – Aberdeen South Dakota Urban Indian Health Inc

Nancy Haugen, CNP, DSME Coordinator 1315 6th Ave SE, Suite #6

Aberdeen, SD 57401

Phone: (605) 225-1538; Fax: (605) 229-2053

Email: nancyhaugen@sduih.org

Diabetes Education Program – Pierre South Dakota Urban Indian Health Inc

Nancy Haugen, CNP, DSME Coordinator 1714 Abbey Road

Pierre, SD 57501

Phone: (605) 224-8841; Fax: (605) 224-6852

Email: nancyhaugen@sduih.org

Diabetes Education Program – Sioux Falls South Dakota Urban Indian Health Inc

Nancy Haugen, CNP DSME Coordinator 320 S 3rd Ave, Suite B

Sioux Falls, SD 57104

Phone: (605) 339-0420; Fax: (605) 339-0038

Email: nancyhaugen@sduih.org

Educating Partners In Care - (EPIC) Eufaula Health Center - MCN

Tamara Lambert, DSME Coordinator 800 Forest Avenue

Eufaula, OK 74432

Phone: (918) 689-2457 x261

Email: tamara.lambert@creekhealth.org

Educating Partners In Care - (EPIC) Koweta Health Center - MCN

Lisa Todd, BSN, RN, DSME Coordinator 31870 E State Hwy 51 Coweta. OK 74429

Phone: (918) 279-3396; Fax: (918) 279-1118

Email: lisa.todd@creekhealth.org

Educating Partners In Care - (EPIC) Okemah Health Center - MCN

Tina Gordon, DSME Coordinator 309 N 14th Street Okemah, OK 74859 Phone: (918) 623-1424

Email: tina.gordon@creekhealth.org

$Educating \, Partners \, In \, Care \, \hbox{--} \, (EPIC)$

Okmulgee Health Center - MCN Sherry O'Mara, RN-CDE, DSME Coordinator 1313 East 20th

Okmulgee, OK 74447 Phone: (918) 756-9911

Email: sherry.omara@creekhealth.org

Educating Partners In Care - (EPIC) Sapulpa Health Center - MCN

 ${\it Johnnie Brasuell, DSME\ Coordinator}$

1125 East Cleveland Sapulpa, OK 74066

Phone: (918) 756-3334 x248

Email: johnnie.brasuell@creekhealth.org

Feather River Tribal Health Diabetes Self-Management Education Program FR Tribal Health Clinic

Anna Cashman, DSME Coordinator 2145 Fifth Avenue

Oroville, CA 95965

Phone: (530) 532-6811 ext. 234; Fax: (530) 534-7095

Email: acashman08@comcast.net

Ft. Thompson Health Center Diabetes Education Program

Kari Blasius, RD LN CDE DSME Coordinator Box 200

Ft. Thompson, SD 57339

Phone: (605) 245-1543; Fax: (605) 245-2150 Email: kari.blasius@ihs.gov

Ft. Washakie Diabetes Education Program Wind River Service Unit

Glen Revere, DSME Coordinator

PO Box 128 Fort Washakie, WY 82514

Phone: (307) 335-5939; Fax: (307) 332-3949

Email: glen.revere@ihs.gov

Healthy Outcomes Promoted by Education (HOPE)

Warm Springs Health & Wellness Center Jennie Smith, FNP, CDE, DSME Coordinator

PO Box 1209

Warm Springs, OR 97761

Phone: (541) 553-2478; Fax: (541) 553-2457

Email: jennie.smith@ihs.gov

HoPE – Health Paths Everyday IHS Whiteriver Indian Hospital

Katheleen Chamberlain, RN-DE, DSME

Coordinator

200 W Hospital Way Whiteriver, AZ 85941

Phone: (928) 338-4911; Fax: (928) 338-3522

Email: kathleen.chamberlain@ihs.gov

Indian Health Care Resource Center Diabetes Patient Education Program (Tulsa)

Nancy O'Banion, MS, DSME Coordinator 550 S Peoria

Tulsa, OK 74120

Phone: (918) 382-1220; Fax: (918) 582-5137

Email: nobanion@ihere.org



Lac Courte Oreilles Community Health Center Diabetes Education Program

Jim Strunk, DSME Coordinator 13380 W. Trepania Road Hayward, WI 54843

Phone: (715) 638-5147; Fax: (715) 634-2740

Email: jbstrunk@aol.com

Micmac Diabetes Education and Support Program Robert Lemoine, ANP, Interim DSMF, Coordinator

8 Northern Road

Presque Isle, ME 04769 Phone: (207) 764-7219; Fax: (207) 764-7768

Email: robert.lemoine@ihs.gov

Nimiipuu Health Diabetes Education Program

Jeanne Laws, RN, MN, CDE, DSME Coordinator PO Box 367

Lapwai, ID 83540

Phone: (208) 843-2271 x2924; Fax: (208) 843-9406 Email: jeannel@nimijpuu.org

NTHS Diabetes Self Management Education Program -- Northeastern Tribal Health System

Johnny Smith, DSME Coordinator

2301 Eight Tribes Trail Miami, OK 74354

Phone: (918) 675-2051; Fax: (918) 542-7232

Email: johnny.smith@ihs.gov

Oneida Nation Diabetes Self-Management Diabetes Education Program

Michael J Washo, DSME Coordinator 2 Territory Road

Oneida, NY 13421

Phone: (315) 829-8713; Fax: (315) 829-8730

Email: mwasho@oneida-nation.org

Ponca Tribe Diabetes Education Program

Hilary Hopkins, Diabetes Program Administrator 1800 Syracuse Avenue

Norfolk, NE 68701

Phone: (402) 371-8834; Fax: (402) 371-7564

Email: hilaryh@poncatribe-ne.org

Puyallup Tribal Health Authority Diabetes Self-Management Education Program

Karol Matson, DSME Coordinator 2209 East 32nd Street

Tacoma, WA 98404 Phone: (253) 593-0232; Fax: (253) 382-2094

Email: kmatson@eptha.com

Redbird Smith Health Center - Cherokee Nation Diabetes Self Management Education Program

Terri Long, BSN, RN, CDE, DSME Coordinator 301 J T Stites Street

Sallisaw, OK 74955 Phone: (918) 774-1412

Email: terri-long@cherokee.org

Rocky Boy Diabetes Education Program

Mary Corcoran, RN, BSN, DSME Coordinator RR1 Box 664

Box Elder, MT 59521

Phone: (406) 395-4486; Fax: (406) 395-4418

Email: mary.corcoran@rbclinic.org

Sam Hider Community Clinic Cherokee Nation Diabetes Self Management Education Program

Fonda Prine, BSN, RN, CDE, DSME Coordinator 1015 Washbourne St

Jav. OK 74346

Phone: (918) 253-4271 x282

Email: fonda-prine@cherokee.org

Sells Hospital Diabetes Self-Management Education Program - IHS Sells Service Unit Barbara Khan, MS, RD, CDE, DSME Coordinator

PO Box 548 Sells, AZ 85734

Phone: (520) 383-7356; Fax: (520) 383-7225

Email: barbara.khan@ihs.gov

SIHB Diabetes Self-Management Education Program Seattle Indian Health Board

Judy Tomassene, RD, CDE, DSME Coordinator PO Box 3364

C 174 0

Seattle, WA 98114-3364

Phone: (206) 324-9360 x2645; Fax: (206) 324-8882 Email: judyt@sihb.org

Email: judy.t@sinb.on

Strength~Power~Integrity~Respect~Indian~Tradition (S.P.I.R.I.T.) Winnebago IHS

Paula Maslonka, DSME Coordinator PO Box HH

PO Box HH

Winnebago, NE 68071

Phone: (402) 878-2231; Fax: (402) 878-2408

Email: paula.maslonka@ihs.gov

Spirit Lake Health Care Diabetes Program

Karen Frohlich, DSME Coordinator IHS Spirit Lake Health Center

PO Box 309

Fort Totten, ND 58335

Phone: (701) 766-1623; Fax: (701) 766-1620 Email: kfrohlich@ihs.gov

Stomping Out Diabetes at Ohi:yo' Lionel R John Health Center

Luanne Spruce, RN, DSME Coordinator 987 RC Hoag Drive Salamanca, NY 14779

Phone: (716) 945-5894; Fax: (716) 945-1983

Email: luanne.spruce@senecahealth.org

The New Patient Diabetes Education Program Claremore Indian Hospital

Melanie Sipe, RD CDE DSME Coordinator 101 S Moore St

Claremore, OK 74017

Phone: (918) 342-6444; Fax: (918) 342-6677

Email: melanie.sipe@ihs.gov

Three Rivers Health Center - Cherokee Nation Diabetes Self-Management Education Program Michelle Goss. MS. RD/LC. CDE. DSME Coordinator

1001 S 41st Street E Muscogee, OK 74403

Phone: (918) 781-6522; Fax: (918) 686-8398

Email: michelle-goss@cherokee.org

WW Hastings Indian Hospital Diabetes Education Self-Management Program

Beverly Ansorge, RN, BSN, DSME Coordinator 100 South Bliss Avenue

Tahlequah, OK 74464

Phone: (918) 458-3277; Fax: (918) 207-3781

Email: beverly-ansorge@cherokee.org

Wagner Indian Health Service Diabetes Program

Colleen Permann, RN BSN CDE DSME Coordinator 111 Washington NW

Wagner, SD 57380

Phone: (605) 384-3621; Fax: (605) 384-5701

Email: colleen.permann@ihs.gov

Wilma P Mankiller Health Center Cherokee Nation Diabetes Self Management Education Program

Kelly Goodrich, DSME Coordinator Route 6 Box 840

Stillwell, OK 74960

Phone: (402) 878-2231; Fax: (402) 878-2408

Email: kelly-goodrich@cherokee.org



Yellowhawk Health Center (YTHC) Diabetes

Education Program

Jennifer Campbell, DSME Coordinator

PO Box 160

Pendleton, OR 97801

Phone: (541) 278-7512; Fax: (541) 278-7574

Email: jennifer.campbell@yellowhawk.org

IHS DIABETES CENTERS/MODEL PROGRAMS

Aberdeen Area

Fort Berthold Diabetes Program

Erna Granbois, Coordinator Minni-Tohe Health Center Box HC2 Box 24F New Town, ND 58763 Phone: (701) 627-4701 Ext. 7830 Fax: (701) 627-3913

Fort Berthold Diabetes Program

Arne Sorenson, Coordinator
Three Affiliated Tribes
TAT Minne Tohe Health Care System
1 Minne Tohe Drive
New Town, ND 58763

Phone: (701) 627-7925; Fax: (701) 627-3913

Fort Totten Diabetes

Karen Frohlich, Coordinator Spirit Lake Indian Health Center PO Box 309 3883 74th Ave, NE Fort Totten. ND 58335

Phone: (701) 766-1600; Fax: (701) 766-1626

Omaha Diabetes Program

Debra Parker, Director Omaha Tribe of Nebraska PO Box 250 Macy, NE 68039 Phone: (402) 837-5381; Fax: (402) 837-5303 Email: debraparker@ihs.gov

Whirling Thunder Wellness Program

Marianne DeCora, Director Winnebago Tribe of Nebraska PO Box 687 Winnebago, NE 68071 Phone: (402) 878-2440 Ext. 1239 Fax: (402) 878-2831

Alaska Area

Alaska Native Diabetes Program

Teny Raymer, Coordinator 4315 Diplomacy Drive Anchorage, AK 99508 Phone: (907) 729-1125; Fax: (907) 729-1129 Email: twraymer@anthc.org

IHS DIABETES CENTERS/MODEL PROGRAMS (continued)

Albuquerque Area

ASU Diabetes Education Program

Harriet Yepa-Waquie, Director Health Heart Project 801 Vassar Drive, NE

Albuquerque, NM 87106

Phone: (505) 248-4017; Fax: (505) 248-7697

Email: harriet.yepa-waquie@ihs.gov

Northern Navajo Medical Center

Kimberly Mohs, Coordinator Diabetes Educatin Counseling Center

PO Box 160

US Hwy 491 North Shiprock, NM 87420

Phone: (505) 368-6679; Fax: (505) 368-6103

Email: kimberly.mohs@ihs.gov

Zuni Comprehensive Community Health Center

John Miller, Director PO Box 467

Zuni. NM 87327

Phone: (505) 782-7345; Fax: (505) 782-5723

Email: john.miller@ihs.gov

Zuni Community Health Model

Derrick Waatsa, Program Manager Pueblo of Zuni

PO Box 308 Zuni, NM 87327

Phone: (505) 782-2665; Fax: (505) 782-4388

Bemidji Area

Northern Minnesota Diabetes Resource Center

Roxanne Johnson, Diabetes Nutritionist PHS Indian Hospital

425 7th Street NW Cass Lake, MN 56633

Phone: (218) 335-3245; Fax: (218) 335-3300

Email: roxanne.johnson@ihs.gov

Billings Area

Blackfeet Diabetes Program

Linda Lucke, Coordinator Blackfeet Community Hospital PO Box 760

Browning, MT 59417

Phone: (406) 338-6301; Fax: (406) 338-6195

California Area

UIHS, Inc., Diabetes Program

Linda Patterson, Coordinator United Indian Health Services, Inc.

Tsurai Health Center 1600 Weeot Way Arcada, CA 95521

Phone: (707) 825-5070; Fax: (707) 825-5055

Nashville Area

Houlton Band of Maliseet Diabetes Program

Simone Carter, Coordinator Health Department RR 3, Box 460 Houlton, ME 04730-9514

Phone: (207) 532-4229; Fax: (207) 532-2067

Mississippi Band of Choctaw Indians

Diabetes Program Lynda G. Johnson, Coordinator

210 Hospital Circle Choctaw, MS 39350-6781

Phone: (601) 389-6354

Passamaquoddy-Indian Township Diabetes Program

Nakia Dana, Coordinator Health and Social Service Dept.

PO Box 97

Princeton, ME 04668 Phone: (207) 796-2321

Fax: (207) 796-2422



IHS DIABETES CENTERS/MODEL PROGRAMS (continued)

Passamaquoddy Pleasant Point Diabetes Program

Eleen Runcy, Coordinator Health and Social Service Dept. PO Box 351

Perry, ME 04467

Phone: (207) 853-0711; Fax: (207) 853-2347

Penobscot Diabetes Program

Abbey McCarthy, Coordinator Penobscot Nation Health Department

5 River Road

Indian Island, ME 04468

Phone: (207) 827-6101; Fax: (207) 827-5022

Oklahoma Area

Claremore Diabetes Program

Melanie Sipe, Coordinator Claremore Indian Hospital 101 S Moore Ave

Claremore, OK 74017-5091

Phone: (918) 342-6444; Fax: (918) 342-6677

Email: melanie.sipe@ihs.gov

Lawton Diabetes Program

Claire Banks, Director Lawton Service Unit 1515 Lawrite Tatum Rd Lawton, OK 73501

Phone: (580) 354-5671; Fax: (580) 354-5675

Email: claire.banks@ihs.gov

Phoenix Area

Journey into Wellness Center

Greg Mahrt, Acting Director PO Box 160

Ft. Duchesne, UT 84026 Phone: (435) 725-6893

Portland Area

Warm Springs Health and Wellness Center

Jennie Smith, Coordinator PO Box 1209 Warm Springs, OR 97761

Phone: (541) 553-2478; Fax: (541) 553-2457

Email: jennie.smith@ihs.gov

Tucson Area

HS Diabetes Prevention Program

Monica F. Lopez, Coordinator Sells Service Unit

PO Box 548 Sells, AZ 85634

Phone: (520) 383-7331; Fax: (520) 383-7225

IHS DIVISION OF DIABETES TREATMENT AND PREVENTION (DDTP)

IHS Division of Diabetes Treatment and Prevention (established 1978)

5300 Homestead Road NE Albuquerque, NM 87110

Phone: (505) 248-4182 Fax: (505) 248-4188

Web Site: www.diabetes.ihs.gov

Kelly Acton, MD, MPH, FACP

Email: kelly.acton@ihs.gov

Division Director

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Email: s.lorraine.valdez@ihs.gov

Deputy Director/Nurse Consultant

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Wendy Sandoval, PhD, RD, CDE

Email: wendy.sandoval@ihs.gov

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Office Automation Assistant



IHS NATIONAL AND AREA DIABETES CONSULTANTS (ADC)

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CAPT. U.S.P.H.S.

Diabetes Specialist

Acting Area Diabetes Consultant Aberdeen Area IHS

Federal Building, Room 309

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Phone: (605) 226-7259; Fax: (605) 226-7733

Email: juanita.mendoza@ihs.gov

Alaska Area

Terry Raymer, MD, CDE

Area Diabetes Consultant

Director Diabetes Program Alaska Native Medical Center

4315 Diplomacy Drive

Anchorage, AK 99508

Phone: (907) 729-1126; Fax: (907) 729-1129

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Albuquerque Area

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Albuquerque Area IHS

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Bemidji Area

Stephen Rith-Najarian, MD

Area Diabetes Consultant

Bemidji Area IHS Office of Clinical Services

522 Minnesota Ave Bemidji, MN 56601

Phone: (218) 444-0513; Fax: (218) 444-0498

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Billings Area

Carol Strasheim, BSN, RN

Area Diabetes Consultant

PO Box 36600

2900 4th Avenue North

Billings, MT 59107

Phone: (406) 247-7111; Fax: (406) 247-7224

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California Area

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Area Diabetes Consultant

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Sacramento, CA 95814

Phone: (916) 930-3927 x332; Fax: (916) 930-3951

Email: helen.maldonado@ihs.gov

Nashville Area

Dianna Richter, RD, MPH, CDE

Area Diabetes Consultant

United South and Eastern Tribes

711 Stewarts Ferry Pike, Suite 100 Nashville, TN 37214

Phone: (615) 872-7900; Fax: (615) 872-7417

Email: drichter@usetinc.org

Ann Bullock, MD, Advisor

Cherokee Tribal Health Delivery

John Crowe Hill

Cherokee, NC 28719

Phone: (828) 497-7455; Fax: (828) 497-7459

Email: annbull@nc-cherokee.com

IHS NATIONAL AND AREA DIABETES CONSULTANTS (ADC) (continued)

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Karen Bachman-Carter, Alternate

Area Diabetes Consultant

Delphine McThomas Medical Center North Hwy 491

PO Box 160

Shiprock, NM 87420

Phone: (505) 368-7428 (direct)

Phone: (505) 368-7425 (program assistant)

Fax: (505) 368-7426

Email: martia.glass@ihs.gov

Oklahoma Area

Renita Selmon, MS, ARNP, CDE

Diabetes Education Consultant

Oklahoma City Area IHS

701 Market Drive

Oklahoma City, OK 73114

Phone: (405) 951-3748

Fax: (405) 951-3916 Email: renita.selmon@ihs.gov

Phoenix Area

Charles Rhodes, MD

Area Diabetes Consultant Phoenix Area IHS

Two Renaissance Square

40 North Central Avenue, Suite 606

Phoenix, AZ 85004-0931

Phone: (602) 364-5195 Fax: (602) 364-5125

Email: charles.rhodes@ihs.gov

Charlton Wilson, MD

Data Systems Advisor Phoenix Indian Medical Center

4212 N 16th Street

Phoenix, AZ 85016 Phone: (602) 263-1587

Fax: (602) 263-1624

Email: charlton.wilson@ihs.gov

Portland Area

Donnie Lee, MD

Area Diabetes Consultant

Portland Area Diabetes Program

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Portland, OR 97204-2892

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Tucson Area

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Area Diabetes Grant Coordinator

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Email: karen.higgins@ihs.gov

Urban Programs

Susan Mathew, RN, CDE, BC-CNS, BC-ADM

USPHS Commander Indian Health Service

Urban Diabetes Consultant

2201 6th Avenue, Suite 937

Seattle, WA 98121-2500

Phone: (206) 615-2454

Email: susan.mathews@ihs.gov



INTERNET RESOURCES

(Note: These are in addition to those listed under Education Materials and Organizations)

| AADE Diabetes Education Accreditation Program | www.diabeteseducator.org/ professionalresources/accred/ |
|--|--|
| American Association of Clinical Endocrinologists | www.aace.com |
| American Diabetes Association (ADA) | J |
| American Dietetic Association (ADA) | www.eatright.org |
| ADA Education Recognition Program | professional.diabetes.org/ recognition.aspx?cid=57995 |
| American Society of Hypertension | www.ash-us.or |
| Centers for Disease Control and Prevention (CDC) | |
| Diabetes Care and Education Practice Group | www.dce.org |
| Diabetes Easy-to-Read Series | diabetes.niddk.nih.gov/dm/ez.asp |
| Diabetes Initiative of the Robert Wood Johnson Foundation Provides links to DSME programs, training and assessment materials, and a section on "lessons learned!" submitted by greaters. | diabetesnpo.im.wustl.edu/index.htm |



INTERNET RESOURCES (continued)

| Diabetes Prevention Program | www.preventdiabetes.com |
|--|---|
| Endocrine Society | www.endo-society.org |
| HRSA Health Disparities Collaboratives | |
| Improving Chronic Illness Care | |
| IHS Division of Diabetes Treatment and Prevention Online Catalog | www.diabetes.ihs.gov |
| National Diabetes Education Initiative | www.ndei.org |
| National Diabetes Education Program | www.ndep.nih.gov www.cdc.gov/diabetes/ndep www.diabetesatwork.org www.betterdiabetescare.nih.gov www.yourdiabetesinfo.org |
| National Diabetes Information Clearinghouse The NIDDK's National Diabetes Information Clearinghouse is an information and referral service designed to increase knowledge about diabetes among patients and their families, health care professionals, and the public. (800) 860-8747. | diabetes.niddk.nih.gov |
| National Guideline Clearinghouse | . www.guideline.gov |
| National Heart, Lung and Blood Institute | . www.nhlbi.nih.gov |
| National Library of Medicine | . www.nlm.nih.gov |
| Physical Activity | www.healthfinder.gov/getactive www.health.gov/paguideline |
| Tobacco Cessation | . www.quitnet.org www.cdc.gov/tobacco/how2quit.htm |

Appendix: Resource Directory Balancing Your Life and Diabetes



INTERNET RESOURCES (continued)

A variety of diabetes resources are available on the Internet. Patient and professional information on diabetes, chat rooms and support groups can be found under "health and diabetes" through a variety of on-line services and search engines. Not all information found on the Internet is accurate or useful—be sure to verify information and warn patients to check with their health care provider before making any changes in their care.

JOURNALS

| American Association of Diabetes Educators (800) 338-3633 The Diabetes Educator |
|---|
| American Diabetes Association (800) 806-7801 Clinical Diabetes |
| Diabetes Care |
| American Dietetic Association (800) 745-0775 On the Cutting Edge www.dce.org |
| Diabetes Interview Kings Publishing, Inc (800) 473-4636 |
| Diabetes Self-Management Practical Diabetology R.A. Rapaport Publishing, Inc (800) 234-0923 |
| Health for Native Life www.diabetes.ihs.gov/Resources/Catalog |
| National Diabetes Information Clearinghouse (800) 860-8747 Diabetes Dateline |
| National Federation of the Blind (573) 875-8911 Voice of the Diabeticwww.nfg.org/nfg/Voice_of_the_Diabetic.asp |



ORGANIZATIONAL TOOLS

American Association of Diabetes Educators offers resources, teaching and evaluation tools for diabetes educators. The Art and Science of Diabetes Self-Management Education, takes a patient-centered approach to teach diabetes educators effective strategies for enacting behavior change in those with diabetes. American Association of Diabetes Educators. AADE7TM Self-Care Behaviors framework, www.diabeteseducator.org/

Association for Community Health Improvement. Planning, Assessment. Diabetes Initiative of the Robert Wood Johnson Foundation provides links to DSME programs, training and assessment materials, and a section on "lessons learned" submitted by grantees. diabetes npo.im.wustl.edu/index.html.

Division of Diabetes Translation at the Centers for Disease Control and Prevention (CDC) provides data and trends on diabetes, a variety of informational materials (e.g., fact sheets, brochures, reports), and links to diabetes projects. www.cdc.gov/diabetes

Indian Health Service's Division of Diabetes Treatment and Prevention offers DSME program recognition and a variety of educational materials tailored for American Indians and Alaska Natives, www.diabetes.ihs.gov

 $National\ Diabetes\ Education\ Program\ offers\ information\ on\ diabetes\ awareness\ campaigns, resources\ for\ healthcare\ professionals\ and\ consumers,\ and\ developing\ community\ partnerships.\ www.ndep.nih.gov$





American Association of Diabetes Educators (AADE)

200 W. Madison St. Suite 800 Chicago, IL 60606 (800) 338-3633 www.diabeteseducator.org

American Diabetes Association (ADA)

1701 N Beauregard St Alexandria VA 22311 (800) DIABETES www.diabetes.org

American Dietetic Association

120 S. Riverside Plaza, Suite 2000 Chicago, IL 60606-6695 (800) 877-1600 www.eatright.org

American Heart Association

72.72 Greenville Ave. Dallas, TX 75231 (800) 242-8721 www.americanheart.org

California Diabetes and Pregnancy Program Sweet Success Express

PO Box 9705 Fountain Valley, CA92728-9705 (714) 968-0735 www.sweetsuccessexpress.com

Canadian Diabetes Association 1400-522 University Ave Toronto, Ontario M5G 2R5

Canada (800) 226-8464 www.diabetes.ca

Centers for Disease Control and Prevention Division of Diabetes Translation

4770 Buford Hwy NE, Mailstop: K-10 Atlanta, GA 30341-3717 (770) 488-5000 www.cdc.gov/diabetes

Diabetes Research Wellness Foundation

5151 Wisconsin Ave NW, Suite 420 Washington, D.C. 20016

(202) 298-9211 www.diabeteswellness.net

www.diabetes.ihs.gov

Indian Health Service

Division of Diabetes Treatment and Prevention 5300 Homestead Rd NE Albuquerque, NM 87110 (505) 248-4182

International Diabetes Center

3800 Park Nicollet Blvd St. Louis Park, MN 55416-2699 (888) 825-6315 www.parknicollet.com/diabetes

Joslin Diabetes Center

One Joslin Place Boston, MA 02115 (617) 732-2400 www.joslin.org

Native American Diabetes Project University of New Mexico

1720 Louisiana Blvd NE, Ste 312 Albuquerque, NM 87110 (505) 272-8465 www.laplaza.org/health/dwc/nadp

National Diabetes Education Program Centers for Disease Control and Prevention

Atlanta, GA (800) 438-5383 www.ndep.nih.gov

National Diabetes Information Clearinghouse

1 Information Way Bethesda, MD 20892

(800) 860-8747

National Institute of Diabetes and Digestive and Kidney Diseases

National Institutes of Health (NIH) Bethesda, MD 20892 www.niddk.nih.gov



ORGANIZATIONS (continued)

Native Diabetes Wellness Program (NDWP) Centers for Disease Control and Prevention Division of Diabetes Translation 4770 Buford Hwy NE, Mailstop: K-10 Atlanta, GA 30341-3717 (770) 488-5000

www.cdc.gov/diabetes/projects/diabetes-wellness.htm

SPORTS/ATHLETICS/PHYSICALACTIVITY

American Alliance for Health, Physical Education, Recreation, and Dance

1900 Association Dr Reston, VA 20191 (800) 213-7193 www.aahperd.org

American College of Sports Medicine

401 W Michigan St Indianapolis, ID 46202-3233

(317) 637-9200 www.acsm.org

The Cooper Institute

12330 Preston Rd Dallas, TX 75230 (800) 635-7050

www.cooperinst.org

International Diabetic Athletes Association

PO Box 1935 Litchfield Park, AZ 85340 (602) 443-2113 (800) 898-4322

Presidents Council on Physical Fitness and Sports

200 Independence Ave SW Room 738H Washington DC 20201-0004 (202) 690-9000 www.fitness.gov

Surgeon General Guidelines on Physical Activity

Centers for Disease Control and Prevention 1600 Clifton Rd Atlanta, GA 30333 (800) 232-4636 www.cdc.gov/nccdphp/sgr/sgr.htm

VISUALIMPAIRMENT

American Foundation for the Blind

11 Penn Plaza, Suite 300 New York, NY 10001 (212) 502-7600 www.afb.org

Braille Translations

RFB&D 20 Roszel Rd Princeton, NJ 08540 (866) RFBD-585 www.rfbd.org

Lion's Club International: Low Vision Service

300 W. 22nd St Oak Brook, IL 60523-8842 (630) 571-5466 www.lionsclubs.org Contact local chapters for information.

State Departments for the Blind and Visually Impaired

Contact state government for local services.

Talking Books

Contact state and local libraries for information

PRODUCTS

For information on diabetes-related products, such as meters, glucose products, insulin pumps, assistive devices, lotions, artificial sweeteners, salt-free products, etc., contact manufacturers directly or seek information through your pharmacy, journals, websites and networking with other diabetes educators.

Many manufacturers will provide samples.

RESEARCH AND TRAINING CENTERS (NIDDK)

Albert Einstein College of Medicine DRTC

701 Belfer Bldg, Rm 1308 1300 Morris Park Ave Bronx, NY 10461 (718) 430-2908 www.aecom.yu.edu

Indiana University DRTC

National Institute for Fitness and Sport Rm 122, 250 N University Blvd Indianapolis, IN 46202 (317) 278-0905

University of Chicago DRTC

5841 S Maryland Ave, MC 1028 Room N-216 Chicago, IL 60637 (773) 702-1334 www.uchicago.edu

University of Michigan DRTC

1103 Towsley Center, Box 0201 1500 E Medical Center Dr Ann Arbor, MI 48109-0201 (734) 936-4000 www.med.umich.edu/mdrtc

Vanderbuilt University DRTC

1211 Medical Center Drive Nashville, TN 37212 (615) 322-5000

Washington University DRTC

660 S. Euclid Ave St. Louis, MO 63110 (314) 286-1900

RESEARCH AND TRAINING CENTERS (Other)

Diabetes Management and Training Centers, Inc. 3941 East Chandler Blvd #106, PMB 104

3941 East Chandler Blvd #106, PMB 104 Phoenix, AZ 85048 (602) 426-1965 www.diabetestraining.com

Native American Diabetes Research and Training Center

University of Arizona (NARTC) 1642 E. Helen Tucson, AZ 85719 (520) 621-5075 www.ahsc.arizona.edu

Wichita State University

Division of Continuing Education 1845 Fairmont Wichita, KS 67260-0036 (316) 978-3456 www.wichita.edu





American Indian/Alaska Native Specific Readings

General:

Acton K, Burrows N, Moore K, Querec L, Geiss L, Engelgau M. Trends in diabetes prevalence among American Indian and Alaska Native children, adolescents, and young adults. <u>Am J Public Health</u>. Sep;92(9):1485-90, 2002. Erratum in: <u>Am J Public Health</u> 92(11):1709, Nov. 2002.

Acton K, Gohdes D: Indian Health Service Diabetes Control Program. In: Clinical Diabetes Mellitus: A Problem Oriented Approach. John K. Davidson (ed). 2nd edition. Thieme Inc., New York, pp 742-744, 1991.

Acton KJ, Preston S, Rith-Najarian S. Clinical hypertension in Native Americans: a comparison of 1987 and 1992 rates from ambulatory care data. Public Health Rep. 111 Suppl 2:33-6, 1996.

Acton K, Rogers B, Campbell G, Johnson C, and Gohdes D: Prevalence of diagnosed diabetes and selected related conditions of six reservations in Wyoming and Montana. Diabetes Care, 16 (Suppl 1):263-265, 1993.

Acton K, Shields R, Rith-Najarian S, Tolbert B, Rhodes C, Moore K, Skipper B, and Gohdes D. Decreasing rates of proteinuria are associated with widespread use of ACE inhibitors in American Indians with diabetes. Diabetes, 50(Suppl 2):Abstract 895-P, 2001.

Acton KJ, Shields R, Rith-Najarian S, Tolbert B, Kelly J, Moore K, Valdez L, Skipper B, Gohdes D. Applying the diabetes quality improvement project indicators in the Indian Health Service primary core setting. Diabetes Care, Jan;24(1):22-6, 2001.

Acton K, Valway S, Helgerson S, Huy JB, Smith K, Chapman V, and Gohdes D: Improving diabetes care for American Indians. Diabetes Care. 16 (Suppl 1):372-375, 1993.

Acton K, Gohdes D: Indian Health Service Diabetes Control Program. In: Clinical Diabetes Mellitus: A Problem Oriented Approach. John K. Davidson (ed). 2nd edition. Thieme Inc., New York, pp 742-744, 1991.

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Listing of Visuals Provided

* der

☐ Benefits and Barriers ☐ Changes I Can Make

| deno | tes | materials available from IHS DDTP |
|------|-----|---|
| Ses | sic | on 1: What is Diabetes? |
| | | |
| | _ | Pancreas |
| | | Diabetes and American Indians* |
| | _ | What is Diabetes? |
| | | Normal Sugar in the Blood |
| | | Too Much Sugar in the Blood |
| | | Normal Blood Sugar and Insulin Levels |
| | | Blood Sugar Ranges |
| | | Target Blood Sugar Goals |
| - | | Changes I Can Make |
| Ses | sio | on 2: Diabetes and Mind, Spirit and Emotion |
| | | Diabetes and Your Feelings* |
| | | Feelings Faces |
| | | When "The Blues" Won't Go Away |
| [| | Positive Ways to Handle Stress |
| [| | Relaxation Techniques |
| [| | Tips From Real Life |
| [| | Changes I Can Make |
| Ses | sio | n 3: Making Healthy Changes |
| Į | | Sample Long-term Goals |
| (| | Healthy Behaviors |
| Į | | Make Healthy Habits a Pleasure |
| Į | | Changing Habits Step-by-Step |
| | | Name That Stage |
| [| | Staying on the Path |

Session 4: Healthy Eating

| What I Need to Know About Eating and Diabetes |
|---|
| The Food Pyramid |
| Helping Hands |
| Portion Sizes You Will Understand |
| Hidden Fats* |
| Hidden Sugars* |
| Hidden Fats and Sugars* |
| Food Record |
| Choosing Good Foods* |
| Plate Method: (Breakfast and Lunch/Dinner) |
| Nutrients in Food Groups |
| Tribe Wins at Losing Weight |
| Diabetes and Nutrition: Common Questions, Clear Answers |
| Changes I Can Make |
| How to Have a Healthy Heart* |
| |
| Manatan da Cana Handalahan |

Session 5: Moving to Stay Healthy

- □ Taking Care of Yourself By Walking*□ Effort Scale□ Target Heart Rates
- □ Tips for Safe Physical Activity□ Walking the Rez with a Purpose
- ☐ Changes I Can Make

Session 6: Diabetes Medicine

- Actions of Diabetes Medicines in the Body
- Diabetes Medicines
- Medicine Sheet
- ☐ Two Men, Two Stories of Diabetes and Strength
- Wallet Card Template
- Changes I Can Make
- □ Pancreas□ Basal and Bolus Insulin
- ☐ Comparison of Insulins
- □ Insulin Action Times
- Injection Sites
- Giving an Insulin Injection
- □ Diabetes and Insulin*



| Session 7: Home Blood Sugar Monitoring | |
|--|--|
| □ Healthy Behaviors: Home Blood Sugar Monitoring □ You Need to Know Your Blood Sugar Numbers □ Target Blood Sugar Goals □ Checklist for Meter Use (optional) □ Sample Diabetes Records #1-4 (examples with data) □ Sample Diabetes Record (blank) □ Changes I Can Make | |
| Session 8: Knowing Your Numbers - ABC | |
| □ If you have diabetes, you are at high risk for heart attack & stroke □ You Need to Know Your Blood Sugar Numbers □ How to Compare Hemoglobin A1c Numbers to Blood Sugar Numbers □ How to Have a Healthy Heart* □ Stay Young at Heart □ Taking Care of Your Heart* □ Blood Vessels and Fat □ Types of Fat in the Blood □ There's Comfort in Knowing Your Numbers □ Changes I Can Make | |
| Session 9: Balancing Your Blood Sugar | |
| □ Target Blood Sugar Goals □ Low Blood Sugar Symptoms □ How Can You Treat Low Blood Sugar? □ High Blood Sugar Symptoms □ How Can You Treat High Blood Sugar? □ Sick Day Guidelines □ Sugar-Free Fluids □ Foods That Contain 15 Grams of Carbohydrate □ Changes I Can Make | |

Session 10: Staying Healthy With Diabetes Blood Vessels in the Body Nerves in the Body ☐ Taking Care of Your Eyes* □ Normal Eve Microaneurysms ☐ Proliferative Retinopathy □ Large Vessel Disease ☐ Taking Care of Your Heart * ☐ Stay Young at Heart □ Blood Pressure Medicines □ Blood Fat Medicines □ Normal Kidney ☐ Taking Care of Your Kidneys* □ Be Kind to Your Kidneys □ Nerve Damage: Feet, Pain, Stomach, Heart* □ The Intimate Side of Diabetes* □ Taking Care of Your Teeth* □ My Health Status ☐ Changes I Can Make Session 11: Taking Care of Your Feet ☐ Taking Care of Your Feet* Cutting Your Toenails ☐ Foot Wear for People With Diabetes* □ Look at Your Feet Changes I Can Make Treat Your Feet in a Good Way Session 12: Planning for Pregnancy ☐ Planning for Pregnancy When You Have Diabetes* ☐ Target Blood Sugar Goals For Pregnancy □ Diabetes and Family Planning*

□ Getting Ready for Pregnancy□ So Many Blessings□ Changes I Can Make





IHS Division of Diabetes Treatment and Prevention

5300 Homesead Road NE

IHS Order Form for Visuals Provided

- · This program does not take orders over the phone
- · A written order by a representative of your program is required
- · Please print clearly and provide all the necessary mailing information
- Orders are mailed out by 4th class mail. It takes approximately 3-5 weeks for delivery from the clearinghouse
- · Make a copy of the order form for your file

Fax, mail or e-mail your request to:

Session 4: Hidden Fats and Sugars
Session 4: Choosing Good Foods
Session 4: How to Have a Healthy Heart

· Please call (505) 248-4182 if you have any questions

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| Date | | | | |
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| Address | | | | |
| Phone Number Check One: | Fax Numb | Zip (| Code ——— | |
| | | | Program | use only |
| Description | | Number Requested | Number Sent | Date Sent Comments |
| Session 1: Diabetes and American Indians | | | | |
| Session 2: Diabetes and Your Feelings | | | | |
| Session 4: Hidden Fats | | | | |
| Session 4: Hidden Sugars | | | | |

IHS Order Form for Visuals Provided (continued)

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| | | Program (| ise only |
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| Description | Number Requested | Number Sent | Date Sent Comments |
| Session 5: Taking Care of Yourself by Walking | | | |
| Session 6: Diabetes and Insulin | | | |
| Session 8: How to Have a Healthy Heart | | | |
| Session 8: Taking Care of Your Heart | | | |
| Session 10: Taking Care of Your Eyes | | | |
| Session 10: Taking Care of Your Heart | | | |
| Session 10: Takiing Care of your Kidneys | | | |
| Session 10: Nerve Damage: Feet, Pain, Stomach, Heart | | | |
| Session 10: The Intimate Side of Diabetes | | | |
| Session 11: Taking Care of your Teeth | | | |
| Session 11: Taking Care of Your Feet | | | |
| Session 11: Foot Ware for People with Diabetes | | | |
| Session 12: Planning for Pregnancy When You Have Diabetes | | | |
| Session 12: Diabetes and Family Planning | | | |
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Sources for Additional Materials

| Material | Туре | Session | Source |
|---|------|----------|--|
| Body Apron | VA | 1, 6, 10 | Ideabetes (603) 749-3899 www.ideabetes.com |
| Disease Process Video: Type 2 Diabetes or The Game Plan | AV | 1 | Milner Fenwick/AADE Series (800) 432-8433 www.milner-fenwick.com |
| Glucose Wands | VA | 1, 10 | Ideabetes (603) 749-3899 www.ideabetes.com |
| Well-Being Visual | VA | 2 | This can be developed locally with guidance from behavioral health staff, tribal culture staff and community leaders. |
| Feelings Cards | VA | 2 | Effectiveness Resources International (508) 533-2636 Feelings Faces can also be made into cards locally, |
| Psychosocial Aspects of Diabetes Video: Emotional Aspects of Diabetes | AV | 2 | Milner Fenwick/AADE Series (800) 432-8433 www.milner-fenwick.com |
| Resource Lists | IH | All | These need to be developed locally. Some IHS Recognized Programs and IHS Model Diabetes Programs have samples. |
| Health for Native Life Articles | IH | A11 | See Order Form for IHS Diabetes Education Materials in Resource Directory. |
| Behavior Change Records (Completed) | VA | 3 | These need to be developed locally by adding sample patient information to diaries, logs and contracts. |
| Behavior Change Contracts | ST | 3 | Samples are available from: • www.improvingehroniceare.org • www.healthdisparities.net/resources.html Samples are also found in literature on behavior change and goal setting. (See Supplemental Readings.) |
| First Step in Diabetes Meal Planning | ЕВ | 4 | American Diabetes Association (ADA) (800) DIABETES www.diabetes.org |



| Material | Type | Session 4 | Source | | |
|--|------|-----------|--|--|--|
| What I Need to Know About Eating and Diabetes | EB | | IHS Division of Diabetes Treatment and Prevention (505) 248-4182 www.ihs.gov/MedicalPrograms/Diabetes See Order Form under Resource Directory. | | |
| Food Records (Completed) | VA | 4 | These need to be developed locally by adding sample patient information to food records, diaries and logbooks. | | |
| Food Models | VA | 4 | Nasco (plastic) (800) 558-9585 www.eNasco.com Actual foods can also be used. National Dairy Council (cardboard) (708) 696-1860 ext. 220 www.nationaldairycouncil.org | | |
| Food Packages | | | Collect actual food packages with ingredient listing and Nutrition Facts label. | | |
| Fat Tubes | | | Nasco (800) 558-9585 www.eNasco.com | | |
| Fat Model | | | Nasco (800) 558-9585 www.eNasco.com | | |
| Model of Arteries With Fat | | | Nasco (800) 558-9585 www.eNasco.com | | |
| Physical Activity Logbook | | | These need to be developed locally by adding sample patient information to food records, diaries and logbooks. The Diabetes Prevention Program www.preventdiabetes.com is one source for activity log books. | | |
| Step Counters | | | Step Counters and/or Digiwalkers are available from: • www.new-lifestyles.com (816) 554-0123 • www.accusplit.com (800) 935-1996 Other sources can be found through a search on the Internet. | | |



| Material | Type | Session | Source | | |
|-----------------------------|----------|---------|--|--|--|
| Exercise Videotape | AV | 5 | Rezrobics (323) 951-0077 www.dreamcatchers.org Armchair Fitness (800)-453-6280 www.armchairfitness.com Look for other videos in local stores | | |
| Diabetes Pills/Pill Bottles | VA | 6 | Pharmacy staff can assist with pills/bubble packs/photos/bottles for visuals. | | |
| Medicine Organizers | VA | 6 | Available from local pharmacies and supermarkets. | | |
| Diabetes Identification | ST | 6, 9 | Sources include: • www.medical-id.net • www.identifind.com • www.medicalert.org • www.medids.com | | |
| Medicine Wallet Card | ST | 6 | Sources include: • Albuquerque Service Unit Diabetes Program • American Diabetes Association • Pharmaceutical companies | | |
| Insulin Bottles/Boxes | VA | 6 | Pharmacy staff and/or pharmaceutical companies can assist with sample bottles and boxes. | | |
| Syringes | VA ST | 6 | Pharmacy staff and/or pharmaceutical companies can assist with sample syringes. | | |
| Injection Devices | VA ST | 6 | Pharmacy staff and/or pharmaceutical companies can assist with sample injection devices. | | |
| Sharps Disposal Containers | VA ST | 6 | Collect samples of appropriate containers locally, such as empty liquid laundry detergent and bleach bottles. | | |
| Insulin Start Kit | VA ST | 6 | Becton, Dickinson and Company (201) 847-6800 www.bddiabetes.com | | |
| My Personal Care Record | ST | 7 | IHS Division of Diabetes Treatment and Prevention (505) 248-4182 www.ihs.gov/MedicalPrograms/Diabetes See Order Form under Resource Directory. | | |
| ADA Resource Guide | EB EG | 7 | Published annually by the American Diabetes Association (800) DIABETES www.diabetes.org | | |

| Material | Type | Session | Source |
|---|----------|---------|--|
| Meters/Test Strips | VA ST | 7 | Pharmacy staff and/or meter companies can assist with meters and test strips. |
| Lancets/Lancet Devices | VA ST | 7 | Pharmacy staff and/or meter companies can assist with lancets and lancet devices. |
| Logbooks | ST | 7 | Pharmacy staff and/or meter companies can assist with logbooks. My Personal Care Record is also available from the IHS DDTP (See previous page). |
| Model of Red Blood Cell With Glucose Attached | VA | 8 | Ideabetes (603) 749-3899 www.ideabetes.com |
| ABC Numbers Wallet Card | ST | 8 | Sources include: • American Diabetes Association (800) 232-6733 www.diabetes.org • Pharmaceutical companies • Some diabetes prevention and control Programs |
| Glucose products | VA ST | 9 | Sources include: local supermarkets pharmacies Insulin Start Kit (see previous page) Can-Am Care (877) 463-9800; www.can-amcare.com |
| Sick Day Kit | VA ST | 9 | This can be made locally by filling a shoebox or small bag with samples of Jello®, regular soda, applesauce, crackers, etc. |
| NIDDK Take Charge of Your Diabetes or Complication Series | EB | 10 | NIDDK diabetes.niddk.nih.gov (800) 860-8747 |
| Complications Video: Preventing the Long-Term Complications of Diabetes | AV | 10 | Milner Fenwick/AADE Series (800) 432-8433 www.milner-fenwick.com |
| Laminated Chart: Progression of Diabetic Retinopathy | VA | 10 | American Academy of Opthalmology (415) 561-8500; www.aao.org Pictures can be downloaded from the National Eye Institute. (301) 496-5248; www.nei.nih.gov/photo |
| Models of Eye, Heart, Blood Vessels, Kidney, Foot, Teeth | VA | 10 | Nasco (800) 558-9585 www.eNasco.com |
| Games | VA | 10, All | Heart Bingo, Diabetes Education Program University of New Mexico 1720 Louisiana N.E. Suite 312 Albuquerque, NM 87110 Make a Jeopardy game using session titles for the categories. |



| Material | Type | Session | Source | | |
|--------------------------------|----------|---------|--|--|--|
| Foot Care Video | AV | 11 | LEAP Program (800) 400-2742 www.hrsa.gov/leap | | |
| Foot Self-Inspection Video | AV | 11 | LEAP Program (800) 400-2742 www.hrsa.gov/leap | | |
| Hand Mirror | VA ST | 11 | Podiatry services can assist with locating a sample. Some pharmaceutical companies provide long-handled mirrors. | | |
| Foot Lotions | VA | 11 | Podiatry services can assist with samples or suggestions of brands to purchase for use as samples. Some pharmaceutical companies provide samples. | | |
| Foot Care Instruments | VA ST | 11 | Podiatry services can assist with samples or suggestions of items to purchase for use as samples, such as emery board, pumice stone, clippers, etc. | | |
| Harmful Foot Products | VA | 11 | Podiatry services can assist with samples or suggest items to purchase for use as samples, such as corn removers, corn pads, razors, etc. | | |
| Sensory Monofilament | VA | 11 | LEAP Program (800) 400-2742 www.hrsa.gov/leap Some pharmaceutical companies also provide samples. | | |
| Foot Model | VA | 11 | Nasco 800-558-9585 www.eNasco.com | | |
| Foot Wear | VA | 11 | Podiatry services can assist with samples or suggest items to use as samples. Include samples of foot wear that have desirable features and those that may cause problems for feet. | | |
| Picture/Poster of Baby in Womb | VA | 12 | A simple visual can be created locally. | | |
| Birth Control Methods | VA | 12 | Pharmacy staff, women's health clinics, and/or the local health department can assist with providing samples of birth control used locally, including foam and condoms, birth control pills/ patches, etc. | | |

