CDC's National Center for Chronic Disease Prevention and Health Promotion



Sharpening Your Vision: DSMES Services as a Connector to Better Eye Health

Division of Diabetes Translation

June 20, 2023

Moderator



Betsy Rodriguez BSN, MSN, DCES, FADCES

Senior Public Health Advisor Division of Diabetes Translation Centers for Disease Control and Prevention

Disclosure Statement

In compliance with continuing education requirements, all presenters must disclose any financial or other associations with the manufacturers of commercial products, suppliers of commercial services, or commercial supporters as well as any use of unlabeled product(s) or product(s) under investigational use.

CDC, our planners, content experts, and their spouses/partners wish to disclose they have no financial interests or other relationships with the manufacturers of commercial products, suppliers of commercial services, or commercial supporters. Planners have reviewed content to ensure there is no bias. Content will not include any discussion of the unlabeled use of a product or a product under investigational use.

Disclosure Statement (continued)



CDC did not accept commercial support for this continuing education (CE) activity. No fees are charged for CDC's CE activities.

The findings and conclusions in this presentation are those of the authors and do not necessarily represent the views of the CDC.

Continuing Education

- This program has been approved for CNE, CEU, CECH, and CPH credit.
- To receive credit:
 - Complete the activity
 - Sign in at TCEOnline
 - Complete the evaluation
 - Pass the post-test with 60%





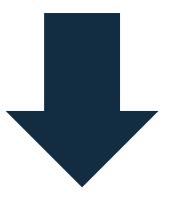
Please Note

- To receive credit, you must visit <u>www.cdc.gov/TCEOnline</u>.
- If you have never registered at TCEOnline, you will have to create a new account.
 - Returning users should login with their existing username and password.



Have a Question for our Speakers?

Submit your question by clicking the Q&A icon located below. We'll do our best to answer all questions during the Q&A portion at the end of this webinar.



Equitable Delivery of DSMES Services

- To address equity in the delivery of diabetes self-management education and support (DSMES) services, interventions can be more effective if they consider the unique needs of various populations.
- For example, people with diabetes who are
 - racially or ethnically diverse
 - of sexual and/or gender minority
 - have limited English proficiency or literacy
 - deaf or hard of hearing
 - blind or have low vision
 - neurodiverse
 - live with learning disabilities or intellectual or developmental disabilities or other cognitive impairment

Today's Objectives

 Understand how diabetes can affect the vision and eye health of people with diabetes.

 Explain the benefits of regular eye health screenings and education for people with diabetes as part of diabetes care and self-management, including through the provision of DSMES services, and in community or team based clinical settings.

Today's Objectives (continued)

 Recognize the patient perspective of how providers can assist a person living with diabetes and vision loss.

 Utilize strategies and resources for delivering DSMES services to people with low vision/limited vision/no vision.

Today's Presenters







Nita Sinha, OD, MPH Director Public Health **Prevent Blindness**

Serena Valentine, MBA, CHW **Executive Director CORE** Initiative

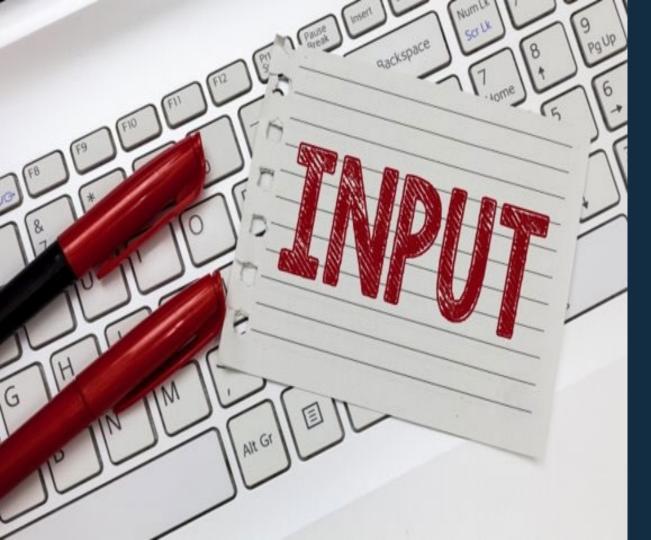
Lisa Golden, MA.Ed.HD, CRC, CDCES **Diabetes Program Specialist** Texas Workforce Commission 11

Current Landscape of Vision Health for People with Diabetes



Nita Sinha OD, MPH

Director, Public Health Prevent Blindness



Go to Menti.com and enter the code [1971 7349] or use the link in the chat to answer the poll question.

Different words, same meaning

Diabetes-related eye disease = Diabetic eye disease

Diabetes-related retinopathy = Diabetic retinopathy

Diabetes-related macular edema = Diabetic macular edema

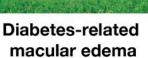
Diabetes + eye disease

What is diabetes-related eye disease?

What are other common eye diseases?



Diabetes-related retinopathy





Cataract



Glaucoma

Diabetes and Blindness in the United States

- Diabetic retinopathy is the leading cause of blindness in working-age adults.
- Glaucoma, cataracts, and other eye disorders occur earlier and more often in people with diabetes.
- Intensive management of blood glucose levels can reduce the risk of diabetic retinopathy by 27%.

What is Vision Loss and Blindness?

- Vision loss or impairment
 - Also known as low vision
 - Loss of eyesight that cannot be corrected with glasses, medicine, or surgery
 - Visual acuity of 20/70 or worse in the better-seeing eye
- Blindness
 - Subset of vision loss or impairment group in which the vision with any correction is 20/200 or worse in the better-seeing eye

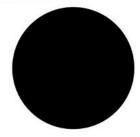
What are symptoms of diabetes-related retinopathy?



Sudden increase in eye floaters (spots and/or dark cobweb-like strands)



Blurred vision



Sudden loss of vision in one eye



Halos around lights



Flashing lights



Poor night and color vision

Risks for Diabetes-Related Retinopathy

- During of the disease
- Blood glucose management
- Racial and ethnic groups*

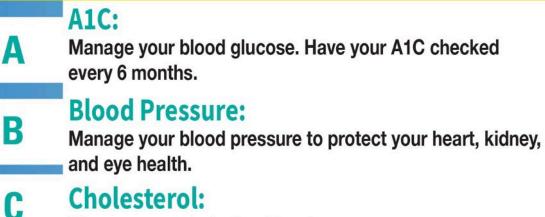
- Blood pressure
- Cholesterol levels
- Pregnancy
- Kidney disease

Smoking

*Learn more: <u>Racial disparities in the screening and treatment of diabetic</u> <u>retinopathy</u> (*Journal of the National Medical Association, April 2022*)

How to keep eyes healthy when living with diabetes?

Know Your ABCs of Diabetes to Protect Your Eye Health



Cholesterol:

Manage your cholesterol levels.

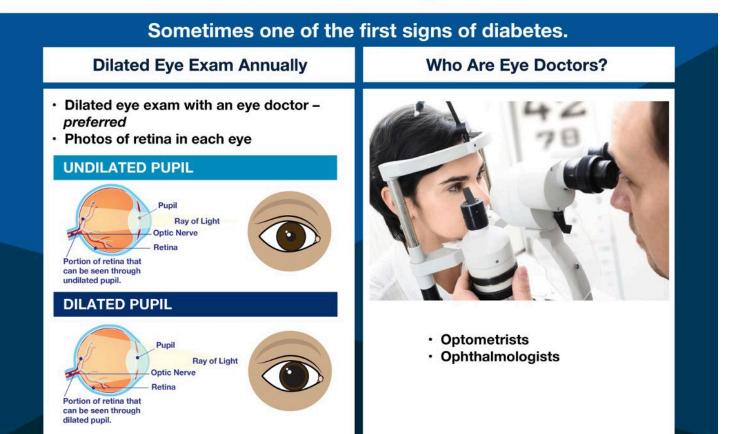
Don't Smoke:

Don't start smoking and if you smoke, guit.

Eyes:

Get a comprehensive dilated eye exam annually.

How is diabetes-related retinopathy diagnosed?



How Can You Help?

Ask questions about eye health:



- Do you get a comprehensive eye exam with dilated pupils at least once a year?
- Do you know how diabetes can affect your eyes?
- Have you noticed any changes to your vision?
- Do you know what to do if you suddenly have a change in your vision?

Make a Connection to Eye Health Care

- Refer your participants to an eye care professional.
- Share resources about recommended eye care for people with diabetes.
- Follow up to help track how well they are managing their diabetes and connecting with their health care team.





Diabetes Diabetes Home

Take Charge of Your Diabetes: Healthy Eyes

Did you know that diabetes can harm your eyes? The good news is that you can take steps to help keep your eyes healthy. You've already taken an important step by finding this guide!

Tips To Keep Your Eyes Healthy

Get a dilated eye exam at least once a year and share the results with your primary care doctor.

 In this exam, you will get eye drops to make your pupils larger. Pupils are the black circles in the middle of your eyes. The drops are painless and help your eye doctor see inside your eyes to look for signs of health problems.



- A dilated eye exam can help your eye doctor find and treat problems to keep you from losing your vision from diabetes.
- Your eye doctor may take pictures of your eyes with a tool called retinal photography. This tool helps the doctor see your retina, which is at the back part of your eyes.
- Be sure to make and keep your next eye doctor appointment!

Visit your eye doctor right away if you:

- See little black lines or spots that don't go away.
- See any red spots or a red fog.
- Have a sudden change in how clearly you see.
- Take longer than usual to adjust to darkness.

Talk with all of your health care providers about ways to manage your diabetes.

- Ask your health care team to help you set and reach goals to manage your blood sugar, blood pressure, and cholesterol.
- Get regular A1C tests to measure your blood sugar over time because poor blood sugar can make eye problems happen faster.
- Ask about safe ways to be more active each day and foods that are healthy to eat.

Diabetes-Related Eye Disease and Mental Health

- Diabetes-related eye disease can cause loss of vision.
- For some, loss of vision can lead to feelings of depression, anxiety, and loss of independence.
- Share these steps to support mental health with people who are living with diabetes-related eye disease:
 - Talk to your primary care doctor, mental health professional, or eye doctor
 - Seek support and connect with others and things that bring you joy
 - Exercise
 - Seek vision rehabilitation services

Resources



https://www.youtube.com/ watch?v=nxXvk7vlZ9Q



https://www.youtube.com/ watch?v=RsvhzAA9lbA

Diabetes + Your Eyes Educational Toolkit

Factsheets (including one on *Diabetes-Relate Eye Disease and Mental Health*), scripted PowerPoint, videos (including one on *Diabetes, Vision Loss, and Mental Wellness*), infographics https://preventblindness.org/diabetes-and-the-eyes-

educational-toolkit/

Diabetes + Your Eyes https://preventblindness.org/diabetes

Resources (continued)

Living Well With Low Vision Resources for those with vision loss https://lowvision.preventblindness.org/

ASPECT Patient Engagement Program

The program aims to equip participants with knowledge, skills, and confidence to become advocates for vision and eye health. https://cvph.preventblindness.org/aspect-program/

Prevent Blindness https://preventblindness.org/



Supporting Patients with Vision Loss: A First-Person Perspective



Serena Valentine MBA, CHW

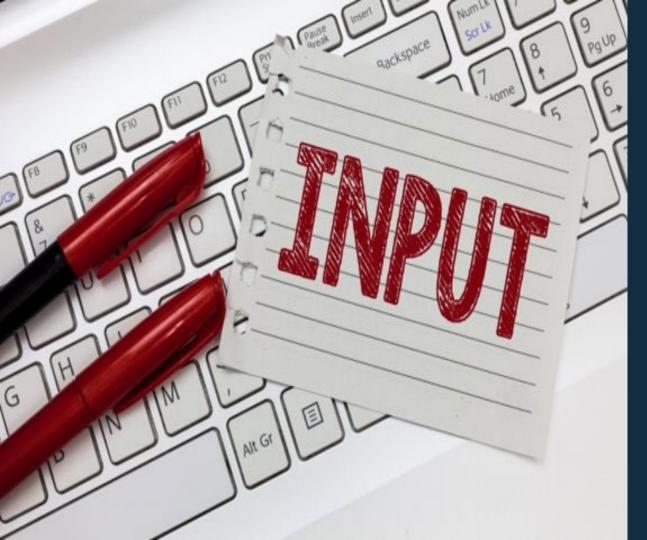
Executive Director CORE Initiative

Delivering DSMES Services to People with Low Vision, Limited Vision, or No Vision



Lisa Golden MA.Ed.HD, CRC, CDCES

Diabetes Program Specialist Texas Workforce Commission



Go to Menti.com and enter the code [1971 7349] or use the link in the chat to answer the poll question.

Talk about Vision Loss



 Managing your diabetes can delay or prevent further vision loss (and other complications of diabetes).

 Cataracts are common and can block the eye doctor from seeing other damage like macular edema or blood vessel growth.

Talk about Vision Loss (continued)

- Don't be afraid to discuss your eye status.
- If you have low vision or are blind, you need to know what to expect and how to proceed with everyday tasks.
- Think about how to describe your vision loss and abilities.
- If your eye doctor says that you "passed" your comprehensive eye exam, it is NOT a waste of your time or money.



Participant-Centered Approach



Teach the person living with vision loss, not the others who came to the training or appointment.



Allow the person with a vision loss to handle any equipment, teaching tools, or handouts.



Allow the person with the disability to make the decisions for their diabetes and health. **THINK ABILITY!**

Considerations for Providing DSMES Services

- Advanced technologies (insulin pumps, continuous glucose monitors, etc.) are only partially accessible.
 - Workarounds are not accessibility.
- Even though they are not fully accessible, you can still offer technology solutions and talk about all the features.
- Consider new technologies and medications (and access – i.e., prescription assistance or discount programs)



Considerations for Providing DSMES Services (continued)

- Use their other technologies and tools to assist in self care tasks.
 - CCTVs, Braille displays, smart phones
 - Example visual interpretation and support apps: AIRA, Be My Eyes, TapTapSee, Seeing AI
 - Many online retailors of vision-aids and supports; recommendations can often be made through national organizations.
- Consumer Guides <u>https://consumerguide.diabetes.org/</u>
- Diabetes Technology <u>https://www.diabeteseducator.org/danatech/home</u>

Resources for Low Vision

- American Foundation for the Blind <u>https://www.afb.org/</u>
- American Council of the Blind <u>https://www.acb.org/</u>
- ACB Diabetes in Action (Podcast) <u>https://www.acbda.org/</u>
- National Federation of the Blind <u>https://www.nfb.org/</u>
 - Diabetes Action Network for the Blind (DAN)
 - <u>nfb.org/about-us/divisions-committees-and-groups/divisions/diabetes-action-network</u>
 - Mailing List: <u>nfbnet.org/mailman/listinfo/diabetes-talk_nfbnet.org</u>
 - (Diabetic Living, Diabetes Forecast, Diabetes Self Management)
 - <u>https://nfb.org/programs-services/nfb-newsline</u>
 - Hadley School for the Blind <u>https://hadley.edu/</u>
- Talking Books and Reading Disabilities <u>https://www.loc.gov/nls/about/eligibility-for-nls-services/talking-books-reading-disabilities/</u>

Vocational Rehabilitation

- Vocational Rehabilitation (VR) is a federal-state program that helps people who have disabilities get or keep a job or advance in employment.
 - 14 years old or older
 - Physical or mental disability which is a substantial impediment to employment
- List of state vocational rehabilitation agencies <u>https://askjan.org/concerns/State-Vocational-Rehabilitation-Agencies.cfm?csSearch=4524079_1</u>

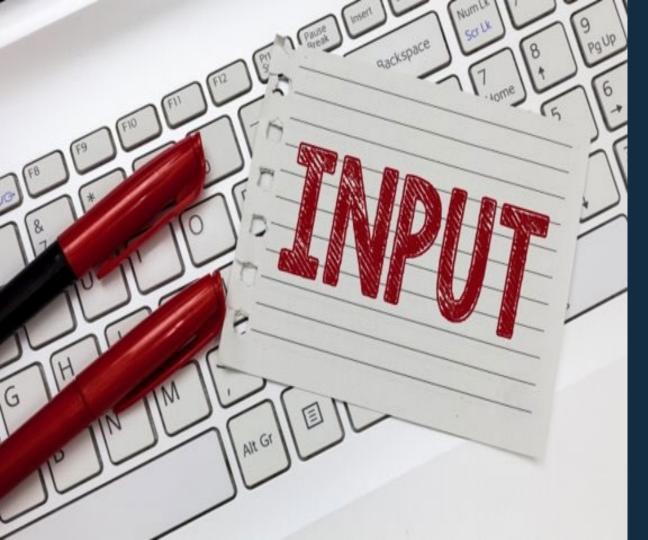
Vocational Rehabilitation Services

- Job exploration
- Counseling for adjustment to blindness or support
- Career planning
- Social Security Disability Insurance benefits planning
- Work-based learning experiences
- Orientation and mobility support
- Teacher services for visually impaired
- Deafblind services
- Assistive technology selection and training



Independent Living for Older Individuals Who are Blind (OIB program)

- 55 or older whose severe visual impairment makes competitive employment difficult but for whom independent living goals are feasible
- Services may include adaptive aids, independent living skills training, community resources, large print items, peer support
- Mississippi State Lessons for Living (<u>https://www.oib-</u> <u>tac.org/technical-assistance/direct-service/lessons-living</u>)
- Refer to the list of state agencies on previous slide or search for your state and "older blind independent living"



Go to Menti.com and enter the code [1971 7349] or use the link in the chat to answer the poll question.

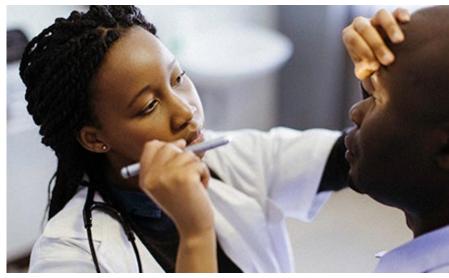
Question and Answer

Send questions after the webinar to: DDT_DiabetesWebinar@cdc.gov



CDC Eye Health Resources

- Vision Health Initiative (VHI) <u>https://www.cdc.gov/visionhealth/index.htm</u>
- Take Charge of Your Diabetes: Healthy Eyes <u>https://www.cdc.gov/diabetes/library/factshee</u> <u>ts/diabetes-and-healthy-eyes.html</u>
- How to Promote Eye Health for People With Diabetes:
 5 Actions for Health Care Teams <u>https://www.cdc.gov/diabetes/professional-</u> info/health-care-pro/diabetes-eye-health.html



Thank You

Send questions after the webinar to:

DDT DiabetesWebinar@cdc.gov

For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov Link for this webinar continuing education (CE) on TCEO: <u>https://tceols.cdc.gov/Course/Detail2/9116.</u>

In order to receive CE for WC4371-062023 - Innovations in Diabetes Behavior Change - Sharpening Your Vision: DSMES Services as a Connector to Better Eye Health - June 20, 2023 (Webcast), please visit TCEO and follow these 9 Simple Steps <u>https://tceols.cdc.gov/Home/Steps</u> before July 24, 2023.

The Course Access Code is Diabetes.

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

