Section 5:



Facilitating Positive Health Behaviors and Well-Being to Improve Health Outcomes

Building positive health behaviors and maintaining psychological well-being are foundational for achieving diabetes management goals and maximizing quality of life.

Essential tasks to help people with diabetes achieve their health goals: Refer for diabetes self-management education and Counsel on and support cessation of tobacco support (DSMES) products and vaping Refer for medical nutrition therapy (MNT) Counsel on health behaviors Support and refer to behavior health professionals for Counsel on routine physical activity psychosocial care

DSMES Is Critical

People Who Benefit

All people with diabetes



Advantages

- Ensures informed decision-making
 - Promotes self-care behaviors
 - Facilitates problem-solving
 - Improved collaboration with the health care team
 - Imparts knowledge and self-care skills
- Incorporates needs, goals, and life experiences

Times to Refer

- Annually
- At diagnosis
- When not meeting treatment goals
- When complicating factors develop
- When transitions in life and care occur

Appropriate Settings Group or individual visits

- In-person, telehealth, or digital platforms

Essential Components

- Provide culturally appropriate content
- Be responsive to individual preferences, needs, and values
- Use positive, strength-based language that puts people first.
- Consider social determinants of health with a focus on health equity.

Proven Outcomes

- Improved diabetes knowledge, self-care, and quality of life
- Lower A1C and self-reported weight reductions
- Reduced all-cause mortality risk, acute care and hospital services utilization, and lower health care
- Increased use of primary care and preventive services
- Positive coping behavior

Psychosocial Care for All People With Diabetes: Considerations and Recommendations

- Clinically significant mental health diagnoses are considerably more prevalent in people with diabetes than in those without.
- Clinicians should implement psychosocial screening protocols, including for diabetes distress.
- People with diabetes, caregivers, and family members should be screened at least annually or when changes in disease, treatment, or life circumstances occur.
- Address both clinical and subclinical psychological symptoms, which can affect the ability to carry out self-management, shortterm glycemic stability, as well as mortality risk.

Interventions

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- Interventions should be collaborative, person-centered, and culturally informed.
- Refer to behavioral health professionals or other trained health care professionals, ideally with experience in diabetes.
- Consider individuals' treatment burden, confidence and self-efficacy in management, and social and family support





Resources are available to help health care professionals support behavioral and mental health in people with diabetes. Find them at https://professional.diabetes.org/meetings/behavioral-health-toolkit.

Suggested citation: American Diabetes Association Primary Care Advisory Group. 5. Facilitating positive health behaviors and well-being to improve health outcomes: Standards of Care in Diabetes—2024 abridged for primary care professionals. Clin Diabetes 2024;42:193-195 (doi: 10.2337/cd24-a005). ©2024 by the American Diabetes Association.

Diabetes Distress

The ongoing demands of diabetes self-care and the possibility or reality of disease progression are directly linked to reported diabetes distress.

High levels of distress:

- Significantly affect medication-taking behavior
- Are linked to higher A1C, lower self-efficacy, and less-optimal eating and exercise behavior



MNT

There is a no one-size-fits-all eating pattern. Successful MNT programs are:



Flexible, realistic, and sustainable



Provided by a registered dietitian nutritionist



Offered to all people with type 1 or type 2 diabetes, prediabetes, and gestational diabetes mellitus

Screen for:



Disordered eating



Food insecurity



History of dieting

Key Nutrition Principles:

Include

- Nonstarchy vegetables
- · Whole grains
- Nuts/seeds
- Low-fat dairy products
- Whole fruits
- Legumes

Minimize

- Meat
- Sugar-sweetened beverages
- Sweets
- Refined grains
- Ultra-processed foods

Data do not support a specific distribution of macronutrients. People with diabetes may choose from a variety of healthy eating patterns to fit their needs and preferences.

Support positive health behavior through:

	white the state and the state						
30 <u>데</u> (소)36	Motivational interviewing	<u>ns</u>	Problem-solving				
SE	Patient activation	~~~~	Encouragement of health behavior self- monitoring, with or without clinician feedbac				
	Goal-setting and action-planning	ů (i)	Identification of social support resources				

STOP

- Cigarettes
- E-cigarettes/vapes
- All tobacco products





With counseling and/or pharmacologic treatment

Downloaded from http://diabetesjournals.org/clinical/article-pdf/42/2/193/758585/diaclincd24a005.pdf by guest on 29 April 2024

Importance of 24-Hour Physical Behaviors for Type 2 Diabetes

SITTING/

BREAKING UP

PROLONGED

SITTING

STEPPING

SWEATING

SITTING/BREAKING UP PROLONGED SITTING

SWEATING (MODERATE-TO-VIGOROUS ACTIVITY)

Limit sitting. Breaking up prolonged sitting (every 30 min) with short regular bouts of slow walking/simple resistance exercises can improve glucose metabolism.

Encourage ≥150 min/week of moderate-intensity physical activity (i.e., uses large muscle groups, rhythmic in nature) OR ≥75 min/week vigorous-intensity activity spread over ≥3 days/week, with no more than 2 consecutive days of inactivity. Supplement with two to three resistance, flexibility, and/or balance sessions.

PHYSICAL

FUNCTION

As little as 30 min/week of moderateintensity physical activity improves metabolic profiles.



STEPPING

- An increase of only 500 steps/day is associated with 2-9% decreased risk of cardiovascular morbidity and allcause mortality.
- A 5-to 6-min briskintensity walk per day equates to ~4 years' greater life expectancy.



SLEEP

Aim for consistent, uninterrupted sleep, even on weekends.



Quantity -Long (>8 h) and short (<6 h) sleep durations negatively impact A1C.



Quality - Irregular sleep results in poorer glycemic levels, likely influenced by the increased prevalence of insomnia, obstructive sleep apnea, and restless leg syndrome in people with type 2 diabetes.



24 HOURS

STRENGTHENING

SLEEP **QUANTITY** PHYSICAL FUNCTION/ FRAILTY/SARCOPENIA

The frailty phenotype in type 2 diabetes is unique, often encompassing obesity alongside physical frailty, at an earlier age. The ability of people with type 2 diabetes to undertake simple functional exercises in middle age is similar to that in those over a decade older.

RENGTHENING

ercise (i.e., any activity on's own body weight istance) also improves ucose levels; activities nompass elements of flexibility and balance.

Quality of life

epression Quality of life





Resistance exercise (i.e., any activity that uses the person's own body weight or works against a resistance) also improves insulin sensitivity and glucose levels; activities like tai chi and yoga also encompass elements of



Chronotype - Evening chronotypes (i.e., night owl: go to bed late and get up late) may be more susceptible to inactivity and poorer glycemic levels vs, morning chronotypes (i.e., early bird: go to bed early and get up early).



			Glucose/ Insulin	Blood pressure	A1C	Lipids	Physical function	Depression	Quality of life	on 29 Apr
		SITTING/BREAKING UP PROLONGED SITTING	4	\	\	4	↑	4	↑	ril 2024
		STEPPING	V	\	\	\	↑	4	↑	4
		SWEATING (MODERATE-TO-VIGOROUS ACTIVITY)	\	+	\	•	↑	4	↑	
		STRENGTHENING	1	\	\	1	↑	4	↑	
	+C+	ADEQUATE SLEEP DURATION	+	\	\	4	?	4	↑	
		GOOD SLEEP QUALITY	V	+	\	1	?	↓	↑	
		CHRONOTYPE/CONSISTENT TIMING	\	?	\	?	?	\	?	

Impact of physical behaviors on cardiometabolic health in people with type 2 diabetes

↑ Higher levels/improvement (physical function, quality of life); ↓ Lower levels/improvement (glucose/insulin, blood pressure, A1C, lipids, depression); ② no data available; ↑ Green arrows = strong evidence; ↑ Yellow arrows = medium strength evidence; ↑ Red arrows = limited evidence.

Davies MJ, Aroda VR, Collins BS, et al. Management of hyperglycemia in type 2 diabetes, 2022. A consensus report by the American Diabetes Association (ADA) and the European Association for the Study of Diabetes (EASD). Diabetes Care 2022;45:2753-2786.