This Evidence-Based Companion Guide on diabetes care explores the evidence-based steps for managing patients with diabetes. Used alongside the Evidence-Based Care Action Guide, it offers health centers an actionable road map to track and control diabetes within the context of whole person care.
**DIABETES CONTROL**

Community health centers play a critical role in providing care and preventive services to the nation’s most vulnerable populations. They serve approximately 28 million people—more than two-thirds of whom are uninsured or on Medicaid. As evidenced by 2018 UDS data showing that only 56% of women age 23-64 were screened for cervical cancer, and 44% of patients age 50-75 for colorectal cancer, identifying effective ways to improve screening rates can help health centers achieve Healthy People 2020 goals, better health outcomes and experiences, and reduced costs.

**WHAT are the clinical guidelines for managing diabetes?**

The U.S. Preventive Services Task Force (USPSTF) recommends screening for abnormal blood glucose in adults aged 40 to 70 years who are overweight or obese. If patients have abnormal blood glucose levels, they should be offered, or referred to, intensive behavioral counseling interventions to promote healthy lifestyles including changes to diet and physical activity. USPSTF recommends that clinicians screen earlier for patients at increased risk (see below).

The American Diabetes Association (ADA) Standards of Medical Care in Diabetes recognizes that “optimal diabetes management requires an organized, systematic approach and the involvement of a coordinated team of dedicated health care professionals working in an environment where patient-centered high-quality care is a priority.” Additionally, the ADA recommends tailoring treatment for social context by assessing social determinants of health; referring patients to local community resources when available; and providing patients with self-management support from lay health coaches, navigators, or community health workers.

**USPSTF RECOMMENDATIONS: GRADE B**

| Adults age 40 - 70 | • Screen for abnormal blood glucose as part of cardiovascular risk assessment in adults aged 40 to 70 years who are overweight or obese.  
| | • Clinicians should offer or refer patients with abnormal blood glucose to intensive behavioral counseling interventions to promote a healthful diet and physical activity.  
| Patients <40 | • Consider screening earlier than age 40 in persons with 1 or more of the following characteristics (regardless of body mass):  
| | ✓ Family history of diabetes,  
| | ✓ History of gestational diabetes or polycystic ovarian syndrome,  
| | ✓ Members of certain racial/ethnic groups (African Americans, American Indians or Alaskan Natives, Asian Americans, Hispanics or Latinos, or Native Hawaiians or Pacific Islanders)  

U.S. Preventive Services Task Force, Final Recommendation Statement, Abnormal Blood Glucose and Type 2 Diabetes Mellitus: Screening
**DIABETES CONTROL**

**HOW**

can health centers impact diabetes?

Diabetes is a complex chronic condition that requires a multifactorial approach to care along with the transformation of health care systems. Evidence-based interventions outlined in this Action Guide have proven to help control this disease and are consistent with ADA recommendations and the Guiding Principles for the Care of People with or at Risk for Diabetes supported by more than a dozen federal agencies and professional organizations.

NACHC's Value Transformation Framework can guide health centers in coupling diabetes-specific interventions with systems-level interventions to improve health outcomes, improve patient and staff experience, and reduce costs (the Quadruple Aim).

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**EVIDENCE-BASED COMPANION GUIDE: DIABETES CONTROL**

This Action Guide takes the ten (10) systems-level intervention from the Evidenced-Based Care Action Guide and expands those steps specifically for diabetes.

**STEP 1** Engage Leadership: Prioritize diabetes management; set organizational goals for improvement.

**STEP 2** Apply Population Health Management Strategies: Segment your patient population into target subgroups and use registries to identify and track patients with diabetes within each target segment.

**STEP 3** Design Models of Care that Incorporate Diabetes Evidence-Based Interventions: Define a core set of diabetes interventions that your health center will focus on. Target interventions to the needs of complex, high-risk, medium-risk, and low-risk diabetes patients.

**STEP 4** Create/Update Diabetes Clinical Policies and Standing Orders: Create diabetes clinical policies, procedures, and standing orders based on current evidence-based best practices. Integrate clinical policies and standing orders into routine care.

**STEP 5** Deploy Care Teams in New Ways: Enhance the delivery of diabetes interventions by maximizing the role of each member of the care team to work in new, efficient ways.

**STEP 6** Optimize Health Information Systems: Leverage health information technology to track, improve, and manage diabetes activities. Capture the data needed for care delivery, reimbursement, and reporting.

**STEP 7** Engage Patients and Support Self-Management: Tap into a variety of resources for engaging patients in diabetes care and management.

**STEP 8** Develop/Enhance Community Partnerships: Create a list of community partners to support “whole person” diabetes care. Establish memorandums of understanding to formalize collaboration.

**STEP 9** Tailor Treatment for Social Context: Incorporate social risk assessment into patient processes. Create an inventory of referral sources that match the social determinants of health impacting your community.

**STEP 10** Maximize Reimbursement for Diabetes Management and Prevention: Identify sources of reimbursement for diabetes care and incorporate billing codes into your EHR and billing systems. Explore the addition of services lines (e.g., care management) that support diabetes control and generate additional revenue.
DIABETES CONTROL

STEP 1  
Engage Leadership
Identify a set of priority clinical conditions for improvement that includes diabetes control. Name a clinical lead to pursue diabetes management as a top organizational priority and who is supported by health center leadership through messaging, protected time, and other resources. Leadership, in partnership with staff, should set short and long-term targets for improvement. Short-term goals may include staff training on new policies, and changes in the roles and responsibilities of care team members. Longer-term measures can include diabetes control rates and follow-up on patients with high HbA1c levels.

**Action Item:** Leadership incorporates diabetes control within the larger business case for value transformation. See NACHC’s Leadership Action Guide\(^{15}\) and Evidence-Based Action Guide\(^{16}\) for more information. Set targets, benchmark success, and commit to improving diabetes control as part of local, state, or national initiatives.

STEP 2  
Apply Population Health Management Strategies, including Risk Stratification and Registries
Utilize data on your patient population to target diabetes interventions. Start with a high-level view—the number and percent of patients with type 2 diabetes and the percent of patients with diabetes that have poor glycemic control (defined as > 9% HbA1c) in your patient population—and note how they compare to county-level trends. The Agency for Healthcare Research and Quality (AHRQ)’s diabetes snapshot tool allows you to view measures of quality, cost, and treatment disparities for diabetes in your state compared to regional and national outcomes.

Next, use risk stratification to segment your patient population into target groups (see NACHC’s Risk Stratification Action Guide\(^{17}\) for more details).\(^\) Diabetic registries or reports from your electronic health record (EHR) will help to identify patients with diabetes in each target group.

**Action Item:** Risk stratify your patient population into target groups and utilize diabetes registries to identify patients with diabetes within each group. Use health center, local, and national data to support clinic-based quality improvements related to diabetes management and other priority conditions.

STEP 3  
Design Models of Care that Incorporate Evidence-based Diabetes Guidelines and Interventions
Amidst competing priorities and limited resources, health centers can improve diabetes control by coupling and streamlining a core set of evidence-based diabetes interventions with systems-level interventions (e.g., changes to infrastructure, care delivery, or people). This requires “packaging” diabetes care as one important part of overall care. Approaching from this systems perspective can also help manage the limited time of providers and not overwhelm patients. Many of the evidence-based diabetes interventions outlined in this guide may already be common practice for some health centers, others require changes in processes or services. The key is to weave diabetes-specific interventions within larger system change, while balancing the overall needs of each patient and without overwhelming providers.

**Action Item:** Design a model of care that incorporates a core, actionable set of evidence-based diabetes interventions.
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(3.1) Depression Screening: Having diabetes doubles the odds of depression.18 Depression impacts self-care which, in turn, impacts patients' ability to maintain glycemic control.18,19 The USPSTF recommends depression screening for the general adult population,20 and the ADA specifies annual depression screening for all patients with diabetes.10 Screening should be implemented with adequate systems in place for diagnosis, treatment, and appropriate follow-up. The Patient Health Questionnaire (PHQ) is an effective tool that can be self-administered by patients in the waiting room or exam room.

- The PHQ-2: A 2 question tool that measures the frequency of depressed mood over the past two weeks. Patients who screen positive (a score of 3 or above) should be further evaluated.21
- The PHQ-9: A 9 question tool that can reliably and validly measure depression severity.21–23

<table>
<thead>
<tr>
<th>Over the past 2 weeks, how often have you been bothered by any of the following problems?</th>
<th>Not At All</th>
<th>Several Days</th>
<th>More Than Half The Days</th>
<th>Nearly Every Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Little interest or pleasure in doing things</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2. Feeling down, depressed or hopeless</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

Action Item (Depression Screening): Incorporate depression screening into routine primary care visits. Have plans in place for follow-up/referral for patients who screen positive.

(3.2) Weight Management: Modest and sustained weight loss in overweight or obese patients with type 2 diabetes has been shown to reduce the need for glucose-lowering medications24,25 and improve cardiovascular risk factors.26 Weight-loss induced improvements are greatest earlier in the natural history of type 2 diabetes, making early action especially impactful.25,27,28 As little as 3% weight loss can improve glycemic control.29 Lifestyle management that includes weight loss in individuals with type 2 diabetes can reduce HbA1c levels, improve glycemic and lipid control, reduce depression, reduce the need for diabetes medications, and reduce costs.30 Obesity management can also delay the progression from prediabetes to type 2 diabetes.10,31

Diet: Ensure processes are in place to measure patients' body mass index (BMI) per UDS guidelines and implement a care plan for diabetic patients with a BMI outside normal parameters. If a nutritionist or dietician is not available in your health center, an appropriate member of the care team member can develop a personalized menu of nutrition/diet options. Train staff in beneficial diet strategies like USDA's MyPlate and incorporate MyPlate education into discussions with diabetic patients.

- Develop a menu of nutrition/diet options targeted to different patient segments. Interventions should be individualized.
- Train at least one care team member to discuss basic tools for portion control and healthy food choices. Aim for a reduction of 500-750 calories per day.32
- Show a video on MyPlate in your waiting room.
- Use visual prompts as conversation starters. For example: place an empty 16 oz. soda bottle in the exam room that is filled only with 16 teaspoons of sugar (the amount of sugar in one serving of soda). Teach patients that consuming one less soda (approximately 190 calories) a day could potentially result in weight loss of 20 pounds in one year.
### Action Item (Diet): Incorporate measurement of patients’ body mass index (BMI) at each visit. Train staff to use MyPlate in discussions with diabetic patients. Develop a menu of nutrition/diet options targeted to different patient segments.

### Exercise Promotion: Structured exercise that lasts eight weeks or more has been shown to lower the HbA1c of patients with type 2 diabetes by an average of 0.66%.33,34

- Provide patients with “prescriptions” for exercise. Start with patient specific goals. Target patient weight loss and exercise goals based on losing at least 5 to 10% of their body weight within a reasonable timeframe. Consider that people with diabetes have better glucose control if they walk for 15-minutes after each meal, than if they get one 45-minute workout per day.36 For a sample exercise prescription, see the Minneapolis American Indian Center’s Exercise Prescription Release Form.

### Action Item (Exercise): Provide patients with “prescriptions” for exercise. Target patient weight loss goals toward at least 5 to 10% of a patient’s body weight.

### (3.3) Heart/Cardiovascular Health: “Cardiovascular disease is the leading cause of death for people with diabetes and a major contributor to health care costs related to diabetes”.29 Large benefits can be seen in reducing cardiovascular disease when multiple risk factors are addressed simultaneously.36 Risk factors include high blood pressure, high cholesterol/lipid levels, and smoking. Actions should be taken for each of these risk factors.

#### Blood Pressure Screening: Measure blood pressure for each patient at every office visit. Train staff in accurate BP measurement and track results in the electronic health record.

- BP should be less than 140/90 for most patients. Blood pressure should be measured while patients are seated, with feet on the floor and back supported, after at least 5 minutes of rest and arm supported at heart level.37
- Use the average of >2 office readings (>3 if using an unattended automatic blood pressure machine); separate measurement by 1-2 minutes.37
- Home blood pressure self-monitoring can be helpful in evaluating differences that occur between blood pressure measurements taken at home compared to blood pressure taken in the clinic setting (e.g., “white coat” hypertension) and evaluating the effectiveness of antihypertensive treatment. There is evidence that home blood pressure monitoring improves medication adherence, thereby reducing cardiovascular risk.38
- If blood pressure is elevated, consider initial therapy, which may include: thiazide diuretic, calcium channel blocker, ACE inhibitor, or an ARB.
- Several instructional tools for proper blood pressure measurement include:
  - American Medical Association (AMA) instruction on accurate measurements: BP instructional page or in this video: 7 simple tips to get an accurate blood pressure reading.
  - Tools to teach hypertensive patients to monitor their BP at home: AMA Target: BP video for care teams and patients and this training video by NACHC.

### Action Item (Blood Pressure): Train staff in accurate BP measurement. Measure blood pressure for each patient at every office visit and track results in the electronic health record.
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**Lipids/Cholesterol Management:** Diabetic patients should know their overall cholesterol level and their LDL ("bad") and HDL ("good") levels. People with type 2 diabetes often have lipid abnormalities, which contribute to increased risk for cardiovascular disease.⁵ Weight loss, physical activity, and diet changes can help with cholesterol control. Where appropriate, medications should be used to bring lipid levels into control. Numerous studies and data analyses show significant beneficial effects of statin therapy in preventing cardiovascular disease.³⁹-⁴¹

- **Action Item (Lipid/Cholesterol Management):** Develop clinical protocols for the use of statin and combination treatment in adults with diabetes. Take steps to ensure your electronic health record can capture and report data on the new UDS reporting requirement around statin therapy in diabetics.

**Tobacco Cessation:** “Smokers with diabetes (and people with diabetes exposed to secondhand smoke) have a heightened risk of CVD, premature death, and microvascular complications. Smoking may play a role in developing type 2 diabetes.”³³,⁴²,⁴³ Smoking is the leading cause of preventable disease, disability, and death in the U.S., costing over $300 billion.⁴⁴ Providers can deliver strong, clear messages urging tobacco users to quit. Incorporate tobacco use assessment into the routine vitals process, and document status in the electronic health record. Create a protocol to identify and treat patients who use tobacco.

- Assign a care-team member to deliver and document brief tobacco cessation counseling (1-3 minutes) and refer to a Quitline (use a “Quitline Rx”). Quitlines (available in all 50 states free of charge), are staffed by individuals trained in evidence-based smoking cessation strategies and have been shown to significantly increase abstinence rates. Some states offer mailing of over-the-counter medications.
- State-specific information is available online or by calling 1-800-QUIT-NOW (1-800-784-8669). Research indicates that 69% of people who currently smoke would like to quit smoking, and 52% try to quit at some point in the course of a year.⁴⁵

- **Action Item (Tobacco Cessation):** Incorporate tobacco use assessment into the routine vitals process and document status in the electronic health record. Create a protocol for identifying and treating patients who use tobacco.⁴⁶ Deliver and document brief tobacco cessation counseling (1-3 minutes). Develop a script for providers to personalize that delivers a strong, clear message urging every tobacco user to quit. Refer to the telephone Quitline: 1-800-QUIT-NOW.

**Heart Health – Aspirin Therapy:** Low dose aspirin (75-162 mg/day) in patients with diabetes has been shown effective in diabetic patients with previous cardiovascular events but is less conclusive in preventing cardiovascular disease among patients with no previous risk. Decisions regarding aspirin use should be considered by the provider and an informed patient.

- **Action Item (Aspirin Therapy):** Consider use of low dose aspirin therapy for patients with diabetes who have, or are at risk for, cardiovascular disease.

**Foot care:** Diabetic foot ulcer is one of the most costly and difficult complications of diabetes mellitus, affecting about 15% of diabetic patients during their lifetime.⁴⁷ Early effective management of foot ulcers can reduce the severity of complications, including amputation and possible death. Comprehensive foot evaluations (skin inspection, assessment of foot deformities, neurological assessment and pulse checks on legs and feet) should be performed annually.¹⁸ Diabetic patients
with sensory loss or ulceration should have a visual inspection of their feet at each visit. This can be built-into the visit by instructing patients, upon rooming, to remove shoes and socks. Medicare Part B may cover the cost of special shoes or inserts which help prevent foot ulcers.

Several tools exist to support foot care for patients with diabetes, including:

- Competency assessments for diabetic foot exams: see the [AMA’s Competency assessment for diabetic foot exams](#).
- Electronic prompts in the medical record for annual foot evaluations: see the [ADA’s Instructions for staff in methods for proper comprehensive foot evaluations](#).
- Instructional videos: see the [Indian Health Service instructional video on how to perform a complete diabetic foot exam](#).

**Action Item (Foot Care):** Incorporate visual inspection of feet into the patient visit process for diabetic patients. Create a list of tasks to be completed by each member of the care team; include instruction for removal of socks and shoes by staff responsible for rooming patient.

### (3.5) Eye care/retinopathy:

Diabetic retinopathy is the most frequent cause of new cases of blindness among adults aged 20–74 years.\(^{48}\) Diabetic retinopathy is related to both the duration of diabetes and level of glycemic control.\(^{49}\) During the first two decades of disease, nearly all patients with type 1 diabetes and 60% of patients with type 2 diabetes will have retinopathy.\(^{50}\) Patients with type 2 diabetes should have an initial dilated and comprehensive eye examination by an ophthalmologist or optometrist shortly after diabetes diagnosis. Strategies to prevent or slow the progression of diabetes retinopathy include optimizing glycemic control, blood pressure, and serum lipid control.\(^{10}\)

**Action Step (Eye Care/Retinopathy):** Implement action steps to improve glycemic control, blood pressure, and serum lipid control as a preventive measure against retinopathy. Create and maintain a list of ophthalmologists/optometrists for referrals to comprehensive eye exams.

### (3.6) Medication Use:

It is critical for patients with diabetes to use prescribed medications as directed. For type 2 diabetes, Metformin is the preferred initial treatment, if not contraindicated and if tolerated.\(^{10}\) Evidence also shows Metformin can be effective in preventing diabetes among individuals with prediabetes, although the drug is not yet approved for diabetes prevention by the U.S. Food and Drug Administration.\(^{10}\) Patients should be told about side effects, like temporary diarrhea. Review medications at each visit. Alternate medications can be offered if weight gain becomes a problem which may happen with some antipsychotics (e.g., clozapine, olanzapine, risperidone), antidepressants (e.g., tricyclic antidepressants, selective serotonin reuptake inhibitors, and onoamine oxidase inhibitors), glucocorticoids, oral contraceptives that contain progestins, anticonvulsants, and some antihistamines and anticholinergics.\(^{51}\) ADA’s [Antihyperglycemic Therapy in Adults with Type 2 Diabetes](#) provides recommendations and considerations for mono, dual, and triple therapy.

A variety of tools exist to support medication adherence:

- The American Association of Diabetes Educators' (AADE) [Fostering Medication Adherence Tips and Tricks](#).
- AMA Stepsforward [Medication Adherence](#) care team training.
- Merck & Co. Inc.’s [Adherence Estimator](#) can be used (validated for oral medications prescribed for chronic, asymptomatic conditions such as diabetes).
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- **AARP** has created [My Personal Medical Record](#) that can assist patients in tracking medications.
- **AHRQ** has created [How to Create a Pill Card](#) that uses visuals and simple phrases to show the medications a patient needs to take on a regular basis.
- **CDC’s Million Hearts®** has created a [Drug Adherence Work-up Tool](#) to assess patient adherence to blood pressure medications that could be adapted for use with diabetes or other medications.

**Action Item (Medication Adherence):** Add a “tickler” to the electronic health record to talk about medication adherence and review medications with patients. Ask about side effects; talk through alternatives if side effects (like weight gain) become a problem.

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**STEP 4**

**Create/update diabetes clinical policies and standing orders**

Evidence-based clinical policies and protocols for patients with diabetes are critical for standardizing effective care. They should be updated regularly at the health center based on clinical guidelines for diabetes such as the [ADA Standards of Medical Care](#). Additional diabetes practice guidelines are available from the [American Academy of Family Physicians Clinical Practice Guidelines](#), [American Association of Clinical Endocrinologists](#), [American College of Physicians](#), and the [Endocrine Society](#). A sample health center diabetes policy ([Management of Diabetes Mellitus](#)) is available from Coastal Community Health Services in Georgia.

Consider using standing orders to authorize certain staff to carry out medical orders without a clinician’s examination. Standing orders can improve clinical measures and may be implemented for orders such as HbA1c testing, serum lipid testing, referral for dilated eye exam, and annual referral to diabetic educators. See sample diabetes standing orders in the “resources” section of the following [AMA Steps Forward](#) module.

**Action Item: Create/update clinical policies and standing orders for diabetes and associated conditions based on evidence-based practice guidelines.** See NACHC’s [Evidence-Based Action Guide](#) for more information on systems-level interventions.16

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**STEP 5**

**Deploy care teams in new ways**

Care teams that are high-functioning and patient-centered have been shown to improve the care of patients with diabetes and improve health outcomes. Disease management programs have been shown to have a significant impact on HbA1c levels. More specifically, care managers with a high frequency of patient contact and the ability to adjust treatment (with or without prior physician approval) have been found to substantially help patients with diabetes.

Create a diabetes proficiency checklist for key care team positions; evaluate staff proficiency and address gaps. Train staff in diabetes screening and control, including skills such as diabetes education and weight management. If a diabetes educator is not on staff, create a list of educators in your area. Incorporate diabetes interventions as a part of pre-visit planning. (See the [AMA Steps Forward’s “Pre-Appointment Questionnaire.”](#) Prac) Practices may increase their panel size by assigning a subpanel of patients with uncomplicated chronic conditions such as diabetes to nurses or pharmacists who manage the chronic condition using standing orders.

Consider group visits for patients with diabetes. Group visits are a patient-centered way to optimize time and reduce health care associated costs, while keeping patients engaged in an interactive and empowering environment. These visits have been found to reduce participants’ HbA1c, cholesterol, and blood pressure levels. See the [University of Colorado’s Diabetes Group](#).
Visits Leader’s Manual. Provider and staff training in motivational interviewing has been shown to improve patient engagement.8

Action Item: Assess, train, and support care team members around core competencies for diabetes care. Include diabetes interventions as part of pre-visit planning and consider offering group visits for patients with diabetes. Implement interventions outlined in NACHC’s Care Teams Action Guide and NACHC’s Care Management Action Guide.62,63

Optimize health information systems

Document and track diabetes care in the EHR. Create provider guidance for documentation as part of a primary care visit. This requires documenting diabetes management using structured fields within the EHR. Structured data refers to any data in a fixed field within the patient record used for relational databases and spreadsheets. Take steps to also ensure your EHR can capture and report data on the new UDS reporting requirement around statin therapy in patients with diabetes.

Configure your EHR to create gap reports, which provide information on the management of chronic conditions such as diabetes as well as preventive care needs. Gap reports are a helpful tool to organize and prioritize the care team’s work around an upcoming patient visit.

Implement automated reminders with electronic alerts/flags in the EHR to prompt the clinical team. These alerts can be tailored by age and condition, and used to document historical screenings, patient education, and patient refusals. Reminders are needed not only to measure HbA1c or other diabetes tests, but also to recall patients in need of follow-up.

Action Item: Configure diabetes management prompts, as appropriate, for the care team. Create/update EHR templates to capture data on diabetes-related care items in addition to UDS and other measures. This includes screening for blood pressure, tobacco use, weight management, glucose tracking, foot checks, eye care, and medications. Use the data collected to support your health center’s billing claims for diabetes-care.

Engage patients and support self-management

Diabetes self-management education and support (DSME/S) has been shown to improve health outcomes64 and reduce costs by reducing hospital admissions and readmissions.65,66 DSME/S is most effective when group and individual interventions are combined, using team-based approaches, and at least 10 hours of patient education.67 Patient education can be delivered in-person, online, or through a combination of formats. Collaborative goal setting with patients has been found to reduce HbA1c, blood pressure, and/or LDL cholesterol.68,69 Community health workers (CHWs), peer supporters, and lay leaders may assist in the delivery of DSME/S services, and can be part of a cost-effective, evidence-based strategy to improve the management of diabetes.

The ADA’s DSME/S Algorithm identifies four “critical” points in time to provide education: at diagnosis; during annual assessment of education, nutrition, and emotional needs; when new complicating factors influence self-management; and when transitions in care occur.64 View the algorithm for a checklist of action steps at each of the four points in care.

Teach patients the difference between a reading from a glucometer (which measures blood sugar level at the time of the test) versus an HbA1c test (which measures average sugar levels over the previous two to three months). Work with patients to set an HbA1c goal and a plan to achieve this goal. Check HbA1c levels at least 2 times a year.
The National Diabetes Education Program (NDEP) maintains a national repository of diabetes education tools that are high quality, science- and audience-based, culturally and linguistically on target, and available for free. Create or adopt a limited literacy and culturally competent educational tool for patients to understand HbA1c and take a role in developing their care plans. Such resources include:

- Association of Clinicians for the Underserved Blood Sugar Too High or Too Low? (Spanish)
- Connecticut Department of Public Health Live Free with Diabetes: Blood Sugar
- MHP Salud Know Your A1C Tool (all in English/Spanish).
- Migrant Clinicians Network Diabetes Program
- National Center for Farmworker Health Keeping Diabetes: Information for Healthy Living
- Shared decision-making aids can help, like the Diabetes Medication Choice decision making tool created by the Mayo Clinic
- The ADA, the AADE, and the Academy of Nutrition and Dietetics algorithm for self-management

Use patient reminders and telephone and text messaging systems to emphasize provider recommendations and facilitate the health center’s integrated approach to diabetes management. For example, a script can be created to communicate plans for an upcoming visit, including provider recommendations for HbA1c or other testing, as appropriate.


**STEP 8**

**Develop/Enhance Partnerships**

Partnerships with a wide range of external organizations are key to building community support for diabetes self-management. Linkages with organizations that offer nutrition counseling, behavioral or mental health services, or employment, can provide avenues to address the health and social needs of patients. Work by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) recognizes the importance of community partnerships for clinics to help patients successfully manage their diabetes: “…Clinic-community partnerships have demonstrated benefits at the individual, organizational, and community levels. For example, clinic-community partnerships result in better clinical outcomes; increased capacity for outreach; improved access to community resources; enhanced community engagement in diabetes support; and, ultimately, reductions in morbidity and mortality and improvements in quality of life related to diabetes.”

The NIDDK’s “Community Partnerships” page outlines steps for health care practices to develop partnerships with outside organizations to deliver better diabetes care and education. They range from identifying available resources and exploring ways to listen to community members’ diabetes care needs, to periodically reviewing your partnerships and pursuing public policy that supports healthy lifestyles.

The National Diabetes Prevention Program (NDPP) exemplifies a successful community partnership for community health centers. It aims to prevent type 2 diabetes by offering patients a curriculum on healthy eating, physical activity, and stress management through regular group meetings and support over the course of a year. The program can be delivered in-person and/or online. Visit the NDPP locator to locate a program near your health center. Additional resources may also be available through the AADE’s diabetes education program locator tool which provides listings of
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accredited diabetes education programs in your area.

**Action Item:** Develop/leverage partnerships in support of “whole person” diabetes care. Maintain a list of partners and key points of contact within each organization. Establish memorandums of understanding to formalize collaboration.

**STEP 9**

Tailor Treatment for Social Context

Health inequities related to diabetes and its complications are well documented and are heavily influenced by social determinants of health. ADA Standards of Care recommend that “providers should assess social context, including potential food insecurity, housing stability, and financial barriers, and apply that information to treatment decisions”. Tools such as NACHC’s Protocol for Responding to and Assessing Patients’ Assets, Risks, and Experiences (PRAPARE) can be applied by health centers to assess and then respond to social risk factors.

**Action Item:** Incorporate social risk assessment into patient visit process. Assess potential food insecurity, housing instability, and financial barriers, and apply that information to treatment decisions. Refer patients to community resources in your inventory list, as appropriate.

**STEP 10**

Maximize reimbursement for diabetes management and prevention

High-quality, sustainable diabetes care can only be delivered with proper reimbursement. Laws requiring health insurance coverage for diabetes treatment are in place in 46 states and the District of Columbia. The laws in Mississippi and Missouri only require that insurers offer coverage, but do not require that all active policies include it. Alabama, Idaho, North Dakota, and Ohio are the only four states that do not have a mandate or insurance requirement for diabetes coverage.

The Centers for Medicare and Medicaid Services (CMS) covers intensive behavioral therapy and nutrition counseling for Medicare beneficiaries with or without diabetes who have obesity (BMI>30 kg/m2). Care must be provided by a qualified primary care physician, nurse practitioner, clinical nurse specialist, or physician's assistant and may be covered for up to 12 months if a weight loss of at least 3 kg is achieved within the first 6 months. Medicare also covers up to 3 hours of medical nutrition therapy initially, and up to 2 hours annually, thereafter.

CMS reimburses for 10 program hours of initial diabetes education in the first year and 2 hours each subsequent year. Referrals for DSME/S must be made by a health care provider and include specified indicators. Sample referral forms and information on reimbursement can be found on the ADA’s website Make a Referral.

Reimbursement is also available in some cases for diabetes prevention efforts. Select payers reimburse health centers that participate in the National DPP. The National DPP Coverage Toolkit describes coverage options through Medicare, Medicaid, and commercial payers. Medicare reimburses NDPP “suppliers” up to $165 per patient for core sessions, plus $160 if the patient attained the minimum weight loss of 5%, and an additional $25 if the patient attained 9% weight loss. To bill Medicare, health centers must obtain CDC-recognition and register as a Medicare Diabetes Prevention Program (MDPP) supplier. NDPP is also covered by over 30 health plans and is a Medicaid covered benefit in six states.

**Action Item:** Maximize reimbursement for diabetes management and prevention. Identify sources of reimbursement for both diabetes care and prevention efforts and incorporate billing codes into your EHR and billing systems.
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References


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