## South Carolina Adult Guidelines for Diabetes Care - 2018

Key concepts: goals should be individualized; certain populations (children, pregnant women, and elderly) require special considerations; less intensive glycemic goals may be indicated in patients with severe or frequent hypoglycemia; more intensive glycemic goals may further reduce microvascular complications at the cost of increasing hypoglycemia; postprandial glucose may be targeted if A1C goals are not met despite reaching preprandial glucose goals.

Care of the Person with Type 2 Diabetes

Care of the Person with Type 1 Diabetes

**Screening for** Diagnosis of **Diabetes** At age 45, all adults should be screened regardless of weight. To test for diabetes or to assess risk of future diabetes, either A1C, Fasting Plasma Glucose (FPG), or 2-h 75 q Oral Glucose Tolerance Test (OGTT) are appropriate. An A1C level of 5.7% to 6.4% indicates increased risk for diabetes. The presence of diabetes is indicated by: A1C level of 6.5 % or higher; FPG level of > 126 mg/dL; OGTT level > 200 mg/dL.

Exam/Test

Prevention/delay of type 2 diabetes: refer to support program targeting weight loss of 7% of body weight and physical activity to at least 150 min/week (i.e. National Diabetes Prevention Program).

In those identified with prediabetes, identify and if appropriate, treat other CVD risk factors. Test youth who are overweight or obese and have at least one additional risk factor.

\* Reference: International Diabetes Federation (IDF) Consensus Worldwide Definition of the Metabolic Syndrome

Body Mars Index Weight each visit. Height Tulyear)  ATC Goal ATC < 7.0%  Courterly, then 2 byear if meeting goal more stringent goals (< 6.5%) may further reduce complications at the cost of increased risk of thypogramic goal may be 7.5 % weight loss of the goal may be 7.5 % weight loss of the goal may be 7.5 % weight loss of the goal and goal				31			31		
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Weight each visit. Height Taylear)  with type 2 DM ready to achieve weight loss. FDA approved weight loss sendications are available to be used as adjuncts in patients with Metabolic surgery should be recommended to test type 2 DM in appropriate surgical candidates with BMI > 40 kg/mz/ (EMI) > 37.5 kg/mz / 14A.  ATC  Goal ATC < 7.0%  Blood pressure Systolic < 140 mm/g, Diasbolic < 90 mm/g  Systolic < 140 mm/g, Diasbolic < 90 mm/g  Elipid profile Screening at diabetes diagnosis, imitial medical evaluations or initial file expectancy. Unlike operating, Unlike Systolic < 140 mm/g, Diasbolic < 90 mm/g  Elipid profile Screening at diabetes diagnosis, imitial medical evaluation, and/or et age 40. Thereafter every 5 years in find on a station of network of its ordination of the station of the stat									
onsidered in individual patients. In older adult with hypodycemia, goal may be 7.5-8% to avoid hypodycemia episodes, if history of severe in complications or imitted life speciations. Utilities are mitted cell the properties of the properties of the patients of the properties of the patients of the p			Metabolic surgery should be recommended to treat type 2 DM in appropriate surgical candidates with BMI > 40 kg/m2 (BMI > 37.5 kg/m2 in Asian Americans), regardless of the level of glycemic control or complexity of glucose-lowering regimens, and in adults with BMI 35.0–39.9 kg/m2 (32.5–37.4 kg/m2 in Asian Americans) when						
Systolic < 140 mmHg. Diastolic < 90 mmHg   Calcium channel blockers. If using combination therapy to achieve target, then examine risks vs. benefits of goal of < 140,90 and monitor for scardiovascular risk. the Plarget should be < 130,80 mmHg. All hypertensive palients should monitor BP at home.			' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '						
Age   Risk Factors   Recommended Statin   Monitoring		Systolic < 140 mmHg; Diastolic < 90 mmHg	Each visit. Prescribe medications for BP > 140/90 mmHg along with lifestyle change. Recommended treatment: ACE-I or ARB, thiazide - like diuretics, or dihydropyridine calcium channel blockers. If using combination therapy to achieve target, then examine risks vs. benefits of goal of < 140/90 and monitor for side effects. With increased cardiovascular risk, the BP target should be < 130/80 mmHg. All hypertensive patients should monitor BP at home.						
If not on a statin or frequently if on a statin or indicated.   Note the party   Na SCVD risk factors include LDL >100 mg/dL, high blood pressure, smoking, overweight, and obesity, and family history of premature ASCVD.   Overt ASCVD   High		Screening at diabetes diagnosis, initial medical	Age	Risk Factors			Monitoring	7	
"in addition to lifestyle therapy.   "MaSCVD risk factors (risk facto			<40	0	none		Annually or as needed to check adherence	1	
Asception pressure, smoking, overweight, and obesity, and family history of premature ASCVD.   Asc and LDL cholesterol >50mg/dL (1.3 mmol/L)   high   high   history of premature ASCVD.   Asc and LDL cholesterol >50mg/dL (1.3 mmol/L)   high   history of premature ASCVD.   Asc and LDL cholesterol >50mg/dL (1.3 mmol/L)   high   history of premature ASCVD.   Asc and LDL cholesterol >50mg/dL (1.3 mmol/L)   high   history of premature ASCVD   Asc and LDL cholesterol >50mg/dL (1.3 mmol/L)   high   history of premature ASCVD   high   high   ASC and LDL cholesterol >50mg/dL (1.3 mmol/L)   high   history of premature ASCVD   high   history of premature ASCVD   high   high   high   history of premature ASCVD   high   high   history of premature ASCVD   high   high   high   history of premature ASCVD   high   high   high   high   high   history of premature ASCVD   high		* In addition to lifestyle therapy.		ASCVD risk factor(s)***	Moderate o	r high		1	
ASCVD risk factors   Nigh   High				Overt ASCVD	High				
Over ASCVD   High   Moderate plus			40 – 75	0	Moderate		As needed to check adherence		
ACS and LDL cholesterol >50mg/dL (1.3 mmol/L)   Moderate plus	1	amily history of premature ASCVD.		ASCVD risk factors	high				
in patients who cannot tolerate high-dose statins    Solid patients   Sol					High				
375   0   Moderate   As needed to check adherence   ASCVD risk factors   Moderate or high   High   High   ACS and LDL cholesterol >50mg/dL (1.3 mmol/L)   Moderate plus   Pith   High   Moderate plus   Pith   Pith   Moderate plus   Pith				ACS and LDL cholesterol >50mg/dL (1.3 mmol/L)	Moderate p	lus			
ASCVD risk factors				in patients who cannot tolerate high-dose statins	ezetimibe				
Diabetic Kidney disease   Assess spot urine albumin creatinine ratio (UACR) and estimated glomerular filtration rate eGFR   In all patients with comorbid hypertension. If UACR < 30 mg/g Cr → refer to nephrologist. ACE-I or ARB recommended for treatment of microalbuminuria when 2 of 3 tests are elevated within a 6-month period. Should begin after five years duration then annually.   At diagnosis and annually.   At diagnosis and annually.			>75	0	Moderate		As needed to check adherence		
Diabetic Kidney disease Assess pot urine albumin creatinine ratio (UACR) and estimated glomerular filtration rate eGFR  Aspirin therapy 75-162 mg/day  Diated eye exam By an ophthalmologist or experienced optometrist in diabetic retinopathy Foot examination  Visual inspection at each visit. Comprehensive exam annually should include inspection of the skin, neurological assessment (10-g mono one other assessment: plinprick, temperature; vibrallon, and self-monitored blood glucose (SMBG) Goals: Preprandial glucose 90-130 mg/dL  In all patients with comorbid hypertension. If UACR < 30 mg/g Cr → refer to nephrologist. ACE-1 or ARB recommended for treatment of microalbuminuria when 2 of 3 tests are elevated within a 6-month period. Should begin after five years duration then annually Yearly measurement of UACR, serum Cr, potassium; more frequent monitoring depending on the eGFR at the time.  Aspirin therapy 75-162 mg/day  All patients with type 1 or type 2 (unless contraindicated) with increased CV risk for primary prevention, including most men and women ≥ ag additional CVD risk factor. As secondary prevention for all with history of CVD. For patients with atherosclerotic cardiovascular disease and decipidogrel 75mg/d should be used.  Within 5 years after onset of diabetes, then annually; less frequent exams (every 2 and diagnosis of diabetes, then annually: less frequent exams (every 2 may be considered when eye exam normal.  Visual inspection at each visit. Comprehensive exam annually should include inspection of the skin, neurological assessment (10-g mono one other assessment: plinprick, temperature, vibration, or ankle reflexes), and vascular assessment including pulses in the legs and feet, asset (focal lesions, interdigital calluses, maceration, nails) musculoskeletal (ROM, foot type, digits), sony prominences). Specialized therapeutic foot high-risk patients with diabetes including those with severe neuropathy, foot deformities, or history of amputation.  Self-monitored blood glucose (SMBG) Goals:  Three or				ASCVD risk factors	Moderate o	r high			
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Assess spot urine albumin creatinine ratio (UACR) and estimated glomerular filtration rate eGFR  Management of CKD with calculated eGFR  Aspirin therapy 75-162 mg/day  Dilated eye exam By an ophthalmologist or experienced optometrist in diabetic retinopathy  Foot examination  Visual inspection at each visit. Comprehensive exam annually should include inspection of the skin, neurological assessment (10-g mone other assessment) injer-risk patients with diabetes including those with severe neuropathy, foot deformities, or history of amputation.  Aspirant therapy 75-162 mg/day  All patients with type 1 or type 2 (unless contraindicated) with increased CV risk for primary prevention, including most men and women ≥ ag additional CVD risk factor. As secondary prevention for all with history of CVD. For patients with atherosclerotic cardiovascular disease and diabetic retinopathy  Foot examination  Visual inspection at each visit. Comprehensive exam annually should include inspection of the skin, neurological assessment (10-g mone other assessment) including pulses in the legs and feet, asset (focal lesions, interdigital calluses, maceration, nails) musculoskeletal (ROM, foot type, digits, bony prominences). Specialized therapeutic fool high-risk patients with diabetes including those with severe neuropathy, foot deformities, or history of amputation.  Self-monitored blood glucose (SMBG) Goals: Preprandial glucose 80-130 mg/dL  Ac E-i or ARB recommended for treatment of microalbuminuminum micro manually At diagnosis and annually At diagnosis and annually At diagnosis of diabetes, then annually; less frequent exams (every 2 years) may be considered when eye exam normal.  Wisual inspection at each visit. Comprehensive exam annually should include inspection of the skin, neurological assessment (10-g mone other assessment including pulses in the legs and feet, asset (focal lesions, interdigital calluses, maceration, nails) musculoskeletal (ROM, foot type, digits, bony prominences). Specialized therapeutic fool high-risk				in patients who cannot tolerate high-dose statins	ezetimibe				
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Self-monitored blood glucose (SMBG)  Three or more times daily for patients using multiple insulin injections or insulin pump Goals:  Preprandial glucose 80-130 mg/dL  Three or more times daily for patients using multiple insulin injections or insulin pump therapy, including before meals or snacks, and occasionally postprandial, at bedtime, and prior to exercise, if suspect low BG and critical tasks such as driving. CGM is		Foot examination							
Goals: therapy, including before meals or snacks, and occasionally postprandial, at bedtime, and prior to exercise, if suspect low BG and critical tasks such as driving. CGM is									
Prior to driving > 90 mg/dL		Goals: Preprandial glucose 80-130 mg/dL Peak post-prandial glucose < 180 mg/dL	therapy, including before meals or snacks, and occasionally postprandial, at		t bedtime,	ne, frequent insulin injections or non-insulin therapies.			

Page 2: South Carolina Adult Guidelines for Diabetes Care – 2018

Key concepts: goals should be individualized; certain populations (children, pregnant women, and elderly) require special considerations; less intensive glycemic goals may be indicated in patients with severe or frequent hypoglycemia; more intensive glycemic goals may further reduce microvascular complications at the cost of increasing hypoglycemia; postprandial glucose may be targeted if A1C goals are not met despite reaching preprandial glucose goals.

Reference
unless otherwise
noted:
Reference: American
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2018. Diabetes Care.
Volume 41,
Supplement 1.
January 2018
http://care.diabetesjo
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\*Physical activity recommendations http://journals.lww.com /acsmmsse/Fulltext/2010/120 00/Exercise\_and\_Type \_2\_Diabetes\_America n\_College\_of.18.aspx \*\*Dietary approaches to Stop Hypertension Eating Plan (DASH) http://www.nhlbi.nih.go v/health/public/heart/hb p/dash/introduction.ht

Adopted: 9/2/11 **Updated Guidelines** adopted: 3/23/12, 1/11/13, 3/16/15, 3/4/16, 5/24/17, 3/9/18

Exam/Test	Care of the Person with Type 1 Diabetes	Care of the Person with Type 2 Diabetes					
Hypoglycemia	The preferred treatment is glucose (15-20 grams) for a conscious individual; any glucose containing carbohydrate is appropriate. Repeat treatment if SMBG in fifteen shows persistent hypoglycemia. When SMBG returns to normal, the person should eat a meal or snack to prevent hypoglycemia recurrence. Prescribe glucagon 1 mg SC/IM for all individuals at significant risk of severe hypoglycemia.  If patient drives, assess patient's medical history for loss of consciousness and ability to drive.						
Review self-management goals	Each visit emphasizes glycemic and hypertensive control; weight loss recommended for all overweight or obese individuals at risk for or with diabetes using Mediterranean, low fat/calorie restricted or low-carbohydrate diet. At least 150 minutes per week of moderate-intensity aerobic physical activity*; if no contraindications, encourage people with type 2 DM to perform resistance training ≥ 2 times/week; review eating patterns with emphasis on carbohydrate -key strategy in glycemic control, if hypertensive- encourage DASH** style dietary pattern including reducing sodium and increasing potassium intake, and saturated fats; (should be < 7% of total calories); minimize intake of <i>trans</i> fat; substitute monounsaturated for saturated and <i>trans</i> fat (AACE). Encourage dietary fiber of 14 gm of fiber/1,000 kcal and whole grain foods Limit daily alcohol to 1 drink or less for women and 2 drinks or less for men. For lipids, increase omega 3 fats, viscous fiber, and plant stanols/sterols; reduce saturated, <i>trans</i> fat and dietary cholesterol.						
Diabetes self-management education and support (DSMS)  DSMS focuses on education and the importance of support which is ongoing for people with diabetes. American Association of Diabetes Educators (AADE) Position Statement: AADE7™ Self-Care Behaviors. Diabetes Educ. 2008; 34: 445-449.)	changes and addressing psychosocial co Taking Medication - safe and effective us recognition of hypoglycemia.  Healthy Eating - Importance of nutrition no Monitoring - Role of self-monitoring of blo Reducing Risks - Cardiovascular risk red of feet, preconception counseling, dental	owards an appropriate BMI. byledge, attitudes, self-management skills and health status; strategies for making health behavior terns. If medications; prevention, detection and treatment of acute and chronic complications, including agement and healthy diet. glucose in glycemic control. on, smoking cessation intervention and secondhand smoke avoidance, sexual dysfunction, self-care e. goals and provide encouragement and coping strategies.					
Assessment of patient's psychological & social	Initial and ongoing part of medical management of diabetes.	same according to the many pro-mour should gradeco and annopaled activity.					
situation  Mental health screen:Depression screenAnxiety screenDisordered eating behavior	questions: 1. "Over the past 2 weeks have you felt down, depress positive for the 2 questions, screen further for depression.) Depreconjunction with collaborative care with the patient's diabetes treatinsulin injections or infusion, taking medications, and/or hypoglyce	r depression <u>using any screening method that the provider prefers</u> *** or asking the following two sed, or hopeless?" 2. "Over the past 2 weeks have you felt little interest or pleasure in doing things?" (It isssion: Referrals for treatment of depression should be made to experienced mental health providers in the theam. Anxiety: Consider screening in people exhibiting anxiety regarding diabetes complications, amia that interferes with self-management behaviors. Disordered eating behavior: Consider reevaluating ered eating behavior, an eating disorder, or disrupted patterns of eating. ***Zung, Beck, PHQ-9, CES-D					
Immunizations: Influenza Pneumonia: 2 pneumococcal conjugate vaccines available (PCV13 and PPSV 23) Hepatitis B	Influenza: Annually for all patients > 2 years of age. Pneumonia: All people with diabetes, 2 through 64 years of age, with pneumococcal polysaccharide vaccine (PPSV23). At age > 65 years, administer (PCV13) at least year after vaccination with PPSV23, followed by another dose of vaccine PPSV23 at least 1 year after PCV13, and at least 5 years after the last dose of PPSV23. Hepatitis B: Consider administering 3-dose series of hepatitis B vaccine to unvaccinated adults with diabetes who are age > 60 years.						
Smoking cessation	Advise smoking/tobacco cessation counseling and other forms of treatment. Advise all patients not to smoke. Refer to SC Quit Line available at 1-800-QuitNow. Ecigarettes <a href="SHOULD NOT">SHOULD NOT</a> be used as an alternative to smoking.						
Others: Oral Health, Obstructive Sleep Apnea, Liver function tests	Consider Oral exam every 6 months, screening for OSA in symptomatic patients.  LFTs annually						
Preconception and family planning counseling	Preconception counseling for all women of childbearing age. Women with gestational diabetes should be screened for diabetes 6 to 12 weeks postpartum and should have subsequent screening for the development of diabetes or prediabetes at least every 3 years.						
Autoimmune disease screening	Screen for thyroid disease (TSH), Celiac disease, Pernicious Anel years or with symptoms of thyroid dysfunction. Free T4 should be	mia in persons with type 1 soon after diagnosis and as appropriate. TSH can be rechecked every 1-2					







