

Topics

- Qualifications to take the exam
- ▶ Applying for exam
- ▶ Exam content
- Study strategies
- ▶ Test taking tips
- ▶ Resources



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Diabetes Education

Why Take the BC-ADM Exam?



- Validates a healthcare professional's specialized knowledge and expertise in the management of people with diabetes.
- May provide future opportunities to work more independently and be reimbursed for advanced level care?



Role of BC-ADM

Skillfully manages complex needs and assists with therapeutic problemsolving.

Within their scope of practice, the BC-ADM:

- Adjust medications,
- ▶ Treat & monitor acute & chronic complications and co conditions
- ▶ Counsel participants on lifestyle modifications
- Address psychosocial issues,
- Participate in research and mentoring.



Professional Qualifications to take BC-**ADM- excerpted from ADCES** 500 clinical practice hours in advanced diabetes management within 48 months prior to taking certification examination Other Advanced degree (master's degree or higher in relevant field) Assessment and Diagnosis (47) Planning and Intervention (48) Evaluation and Follow-up (37) Leadership and Advanced Profe Diabetes Education ://www.diabeteseducator.org/education/certif

Quick Question

- ▶ What best describes the difference between a CDCES and a BC-ADM?
- A. BC-ADMs are responsible for increased complexity in decision making
- ▶ B. A bachelor's degree or higher is required to obtain a CDCES
- ▶ C. The main difference is that BC-ADM's prescribe medications based on diagnosis
- D. With an advanced degree, BC-ADM's are qualified to set up an independent practice



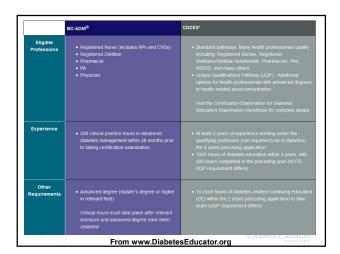
CDCES Vs BC - ADM

CDCES

- Supports and educates Must have Master's people with prediabetes and diabetes to understand and self-manage
- Individualize behavior and treatment goals to optimize health outcomes.

BC-ADM

- ▶ Management of diabetes and comorbidities
- Increased complexity of decision making





Bev's Perspective – CDCES since 1992

- First took BC-ADM exam in 2001 (before kids)
- ▶ Strong background in inpt management
- Passed test but opened another professional door expanded my perspective, encouraged learning
- Created Critical Assessment Course as result
- Member of ANCC team, provided "Review Course'
- ▶ Retook exam in 2006
- Renewed by completing a bunch of stuff -2011
- ▶ Declined to participate in committee to update exam in 2011 (although I really wanted to)
- Renewed again in 2016 and 2021



Board Certification - Advanced Diab Management (BC-ADM) Description

- "The depth of knowledge and competence in advanced clinical practice and diabetes skills affords as increased complexity of decision making which contributes to better care."
 - Excerpted from AADE webs



Recent Roles

- ▶ Diabetes Program Manager
 - Inpatient diabetes management
 - ADA Recognized Outpt Program
 - Outcome Measurement
 - Training of Staff
 - Policies and **Procedures**
 - Teach Classes
 - Write articles

- Diabetes Sp
 - Consulta providers
 - CV Risk N
 - Work on improven
 - Starting s group
 - Staff train Medication Adjustme

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Becoming a BC-ADM	
provides opportunities for health care professionals to expand their roles beyond	
traditional boundaries and to demonstrate their effectiveness	
in performing at an advanced level of practice	
Anne Daly, MS, RD, BC-ADM, CDE ADVANCED Practice in Diabetes Care Diabetes Spectrum January 2003 vol. 16 no. 1 24-26	
Dialetes Education	
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2021 – Qualifications	
Clinical licensure plus advanced	
degree as outlined AND	
► 500 clinical practice hours in	
advanced diabetes management within 48 months prior to taking	
the exam	
Diabetes Shication	
Your questions	
For the 500 hours, what is considered	
advanced diabetes management?	
How do you document your hours?	
As a CDCES (CDE), how will this expand my role?	
Is the AADE version of the BC-ADM	
Exam is very much like the CDCES Exam?	
LAGIII:	

Advanced Level Activities of BC-ADM

- Management skills such as
- medication adjustment,
- medical nutrition therapy,
- exercise planning,
- counseling for behavior management and psychosocial issues.
- Attaining optimal metabolic control in the diabetic client may include treatment and monitoring of acute and chronic complications.
- Research and mentoring



Diabetes Education

Application Process

- Complete app 60 days prior to desired testing month
- Window to apply for Summer
 - May 1- Take test in June
- Window to apply for Winter
 - November 1- Take test in December
- Once you receive confirmation of eligibility
 - schedule an appointment to take the examination on a first-come, first-served basis through Castle's online scheduling system

Application Received By:	Application (Including \$50 Late Fee) Received By:	Testing Window:
May 1	May 15	June
November 1	November 15	December

Diabetes Education

Applying to take the BC-ADM Exam



First, register with Scantron Approved Testing Centers

- www.castleworldwide.com/aade
- ▶ Apply online
- ▶ Applications accepted on a continual basis
- A percentage of candidates will be audited to ensure compliance with eligibility criteria.
- Questions?
 - ▶ ibt@castleworldwide.com
 - **)** (919) 572-6880

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What application materials do I need to submit?

- ▶ Completed application including
 - Proof of Licensure
 - > Documentation of 500 Advanced Practice Clinical Hours (within last 48 months)
 - Diploma of Master's level (or higher)
 - Payment
 - ▶ ADCES (AADE) Members = \$600
 - ▶ Non ADCES Members = \$900
 - Recertification \$500 / \$800 + 1000 practice hours + professional development



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Overview of BC-ADM Exam BC-ADM CDCES 175 multiple choice questions, including 25 prefest/functored Time allowed 3 hours and 30 minutes Major Exam Content Areas (# of Hems!) Area Assessment and Diagnoss (47) Evaluation and Follow-up (37) Leadesting and Intervention (48) Evaluation and Follow-up (37) Beautiful Diagnoss (48) Diagnoss (48) Diagnoss (48) Diagnoss (48) Diagnoss (48) Diagnoss Management (28) Results will be mailed within 6-8 weeks after the close of the testing window Can retake test for fee 2xs in yr Questions? — AADE (919) 572-6880 or website

Test NOW at Scantron Site or Live Online Proctoring (LOP) Scheduling and Cost Information for Bc-ADM Exam Changes 1. Charges for Changes in Scheduling When you get your notification to schedule email from Scantron, click on the link to schedule online and you will be provided with the option to select either an onsite Scantron site or the live online proctoring option (LOP). If you schedule for the LOP option, and then decide you want to reschedule to an onsite Scantron site, there is no charge. However, if you schedule for an onsite Scantron site, then want to reschedule to an LOP, there's a \$50 rescheduling fee. LIVE ONLINE-PROCTORED TEST ADMINISTRATION Live Information-for-bcadm.pdf'?sfvrsn-fba89658_2 LIVE ONLINE-PROCTORED TEST ADMINISTRATION Live Information-for-bcadm.pdf'?sfvrsn-fba89658_2 Live Online proctoring enditions. Scantron uses to propriety violence, Scantron pasts are available 347/186, Issued on scantron was to propriety violence, Scantron pasts are available 347/186, Issued on scantron was to an adequate internet connection as a time and space of their connections, for some their lower should be quiet to avoid distractions and some one was that the online proctor can be recompleted by the propriety on scants the candidate's computer much that the castion can proceed without internet disruption. Candidates are informed of the computer specifications in advanced in the testing session.

Exam Details

- ▶ 25 of the 175 questions are pretest questions and are **not** counted in the determination of individual examination scores.
- Candidates score is based solely on the 150 scored questions



Diabetes Education

213 Questions – Test Taking Toolkit

- > 213 Question Practice Exam
- Includes 4 tests of 50 multiple choice test questions written by Coach Beverly inspired by the American Diabetes Standards of Care. Plus 105 general questions.
- Designed to test your knowledge of the Critical Content areas and help prepare for the Exam.



\$49.00 - Includes 213 Questions plus Test Taking Tips Online Course



BC-ADM Exam Content - 2021 Exam Blue Print (Complete exam outline can be found in the Candidate Handbook) Category Domains of Practice No. of Questions Percent Assessment and Diagnosis Planning and Intervention Planning and Intervention Planning and Intervention Very State of S

I - Assessment & Diagnosis – 47 questions Subdomains listed below

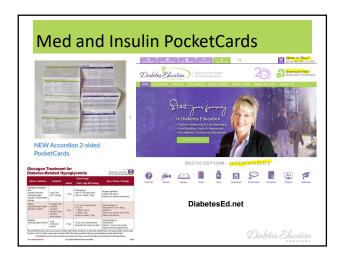
- ▶ Therapeutic interviews 4
- ▶ History, physical exam across lifespan 6
- ▶ Physiology and pathophysiology relating to prediabetes, diabetes and comorbidities 5
- ▶ Self-care behavior, mental health assessment 5
- ▶ Health care resource assessment 3
- ▶ Standards of diabetes care ADA /AACE 5
- ▶ Analysis of complex data sets 5
- ▶ Screening and diagnostic criteria 4
- ▶ Synthesis of information from test/assess 6
- ▶ Differential diagnosis/ problem list 4

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II. Planning and Intervention - 48

- ▶ Standards of Care re: intervention 8
- ▶ MNT and Exercise prescription 7
- ▶ Pharmacologic therapy 10
- ▶ Surgical Options for DM Management 4
- ▶ Technology Options (Pump, CGM, etc) 7
- ▶ Individualization/ Priority of Care 7
- ▶ Collaboration, Referral and Coordination 5





Evaluation and Follow-Up - 37



- ▶ AADE 7 Self-Care and Goal Setting 6
- ▶ Standards of Care AACE, ADA 8
- ▶ Outcome and treatment results 8
- ▶ Goal Achievement (SMART) 7
- ▶ Plan Modification 8

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Leadership and Professional Practice -18

- Regulatory, accreditation/recognition disease management, reimbursement and standards - 5
- ▶ Program development and CQI 3
- National Health Initiatives, Prevention and Public Health
- Scholarship (research, dissemination, mentoring) – 4
- ▶ Community Programs / Outreach -4

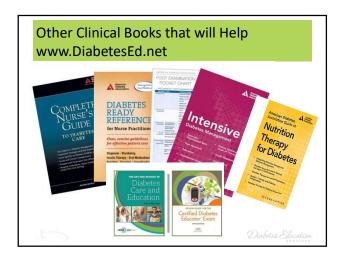


Your questions

- What standards are used? ADA, AACE and from which year?
- ▶ What are the most important study tools?
 - ▶ ADA and AACE Stds / Clinical Guidelines
 - Nurses Complete Guide to Diabetes Care
 - ▶ Levels 1-3 and Test Taking Toolkit
- What is best source of info on newer diabetes medications?
- ▶ Passing score?
- ▶ Passing rate? ~ 70%

	Minimum	Maximum	Passing
	Score	Score	Score
BC-ADM	200	500	350

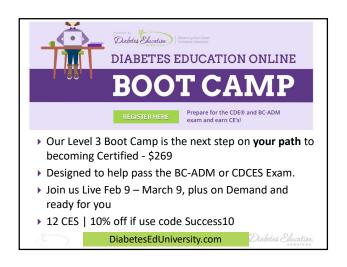




Resource	ces – DiabetesEd.net
COMPLETE NURSE'S GUIDE TO DIABETES CARE	Nurses Guide to Diabetes Care. 3rd edition - Book (2017). Childs, B. (editor). An excellent reference for all health care professionals providing advanced level diabetes care and treatment. Great Study tool
	Links to Summary Pages Medications for Lipid Management Medications for Hypertension Management of Neuropathy Diabetes Medication PocketCards Online Courses
	Diabetes Sucation







From a student who passed her CDE and BC-ADM exam in 2019 "There are a bit more medication questions, but I just took your level 3 and level 4 Bootcamp plus I read over the Standards of Care. Your classes do well at recognizing the key points to the Standards of Care as well as getting to know those 'juicy' answers that the questions on the test provide to trick you. The main study guides for me were the ADA Standards of Care and your PowerPoints, pod casts, and the 100 question practice Even though I have been living with Type 1 Diabetes for 29 years and counting, you still need to know key points with Diabetes Care as person centered care as well as the ADA Standards of Care." DiabetesEdUniversity.com Diabetes Education UNIVERSITY BC-ADM Prep Bundle | Levels 2, 3, & 4 Earn 39+ CEs | \$449 Beverly has custom designed this course bundle to prepare you for the BC-ADM Exam. Sample Question -1 A healthy adolescent with 2 year history of type 1 DM returns for a quarterly appt. For the past month, he has experienced abdominal pain and diarrhea after some high carb meals. An advanced diabetes manager's first intervention is to order a:

A. 72-hour fecal fat collection

D. Transglutaminase Autoantibody Test

B. ColonscopyC. Stool Sample

Poll Question 2 Mrs. S is having trouble sleeping and complains of waking up with frequent nightmares. Her insulin dose includes 5-8 units of Novolog at breakfast and dinner and 12 units of NPH bedtime. She complains that her before bed blood sugar is often greater than 300, so she takes extra insulin before going to bed to bring it down. What is your best response? a. Instruct Mrs. S to decrease the NPH insulin by 2 units to prevent nocturnal hypoglycemia. b. Contact provider and request to discontinue NPH and start Lantus instead. c. Assess if Mrs. S is having a snack before checking her bedtime blood glucose level. d. Instruct how to safely adjust her dinner time Novolog to

prevent hyperglycemia at bedtime.

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Poll Question 3

- The American Diabetes Association recommends universal screening for at risk pregnancies as soon as possible after the confirmation of pregnancy. Criteria for high risk include:
 - a. glycosuria, BMI 30+, > 25 years of age, strong family history of diabetes
 - b. the same risk factors for type 2 as listed in the ADA standards of medical care.
 - c. BMI 30+, >35 years of age, member of high-risk ethnic group, strong family history of diabetes.
 - d. Glycosuria, > 25 years of age, member of high-risk ethnic group, strong family history of diabetes

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Poll Question 4

- Hyperglycemia during hospitalization is associated with poor outcomes due to
 - Decreased insulin resistance, increased insulin secretion and increased counterregulatory hormones.
- b. Increased free fatty acids, ketones, lactate, inflammatory cytokines.
- c. Increased nitric oxide levels
- d. Increased risk of alkalosis



5. A 40-year-old female has a 10-year history of diabetes

- ▶ Injects 16 units of NPH and 8 units lispro (Humalog) before breakfast, and 8 units of NPH, and 4 units of lispro (Humalog) before dinner. BG pattern is:
 - fasting blood glucose is 100
 - pre-lunch is 240 mg/dL;
 - > pre-dinner is 210 mg/dL
 - bedtime is 150 mg/dL.

The advanced diabetes manager recommends:

- a. Adding 2 units of Humalog before breakfast.
- b. Adding 4 units of Humalog before dinner.
- c. Adding 2 units of Humalog before lunch.
- d. Decreasing the evening NPH insulin by 2 units.



Diabetes Education

Sample Question 6

Mr. L takes 16 units glulisine before breakfast and lunch. He takes 16-20 units before dinner depending on BG levels. Mr. L also takes 42 units of glargine at hs. How many vials of glulisine does he need a month?

- A. **1.5 vials**
- в. 2 vials
- c. 2.8 vials
- D. 3 vials

16 + 16 + 20 = 52 units a day 52 units x 30 days = 1560 units

1000 units per vial = 2 vials

Sample question 7

- ▶ A 54-yr-old male, BMI 32 with type 2 diabetes, A1c 10.3%, smokes cigarettes and not exercising. Meds include Glipizide, Metformin and levothyroxine. Given his risk status, which 3 classes of meds should he be taking according to ADA?
- a. Insulin, aspirin and ACE Inhibitor.
- b. TZD, ARB and bolus insulin.
- c. Beta blocker, insulin analog and statin.
- d. Insulin, statin, aspirin



Sample question 8

Current recommendations for screening for Type 2 diabetes and prediabetes in asymptomatic young adults include:

- a. Individuals with a HDL of 52 mg/dl
- b. Individuals with a history of Addison's disease
- c. Offspring with a parent with type 1 diabetes
- d. Women with polycystic ovary disease



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Sample question 9

RS observes Ramadan and fasts from sunrise to sunset. RS is 13 years old, has type 1 diabetes, uses an insulin pump and CGM. RS's insulinto-carb ratio is 1:12 and correction is 1:45. Basal settings range from 0.5 -1.2 units an hour. What would be the best recommendation for RS to keep blood sugars in target range during Ramadan?

- a. See if RS can get a note from their doctor to allow eating during the day $% \left(1\right) =\left(1\right) \left(1$
- b. Take bolus insulin when RS eats a meal or snack
- c. Decrease basal insulin rate by 50% during periods of fasting
- d. Monitor urine ketones at least twice a day



Diabetes Education

Renewal

Recertification Requirements

Professional Development plus Practice Hours:

- Hold a current, active RN, RD, RPh, PA, or MD/DO license in a state or territory of the U.S. or the professional, legally-recognized equivalent in another country;
- Hold a current BC-ADM certification;
- Complete the professional development requirements for your certification specialty (must be completed within the five (5) years preceding your renewal application submission);
- Complete a minimum of 1,000 practice hours in your certification role and population/specialty (must be completed within the five (5) years preceding your renewal application submission);
- Pay the renewal fee.

Recertification Fees

- \$500.00 AADE members
- \$800.00 Non AADE members



Maintaining Certification BC-ADM

- ▶ BC-ADM Exam Sat for exam twice, then policy changed.
 - ▶ Renew every 5 years by completing:
 - ▶ CE activities (75 CE's)
 - Academic Credits
 - Presentations
 - ▶ Publication & Research
 - ▶ Preceptor / Mentor
 - ▶ Professional Service







Thank You	
	 Questions? Email info@diabetesed.net Web www.diabetesed.net 530-893-8635
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