PRACTICE LEVELS FOR DIABETES EDUCATORS AND DIABETES PARAPROFESSIONALS



American Association of Diabetes Educators

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American Association of Diabetes Educators (AADE) 200 West Madison Street, Suite 800 Chicago, Illinois 60606 http://www.diabeteseducator.org

Diabetes Educator Practice Level Work Group:

Sandra Drozdz Burke, PhD, RN, APN-BC, FAADE, FAAN Connie Crawley, RD, LD Nancy D'Hondt, RPh, CDE[®], FAADE Carole' Mensing, MS, RN, CDE[®], FAADE Nathan Painter, PharmD, CDE[®] Claudia Shwide-Slavin, MS, RD, RDN, BC-ADM, CDE[®]

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Elaine Auld, MPH, MCHES Judy Davis, BA, RN, CDE®, FAADE Joanne M. Gallivan, MS, RD Carolyn C. Harrington, RD, LDN, CDE® John (Tommy) Johnson, PharmD, BC-ADM, CDE®, FAADE Jane K Kadohiro, DrPH, APRN, CDE®, FAADE Andrea Knatz, RD, CDE® Lucina Kessler, APRN, ACNS-BC, CDE® Kelli McCormack Brown, PhD, CHES Kelly Rawlings Ardis Reed, MPH, RD, LD, CDE® Betsy Rodriguez, MSN, BSN, RN, CDE® Kellie Rodriguez, MSN, RN, CDE® Julie Walker RD, LD, CDE®

AADE Staff:

Catherine A. O'Brian, PhD Margaret M. Maloney, MA

Overview

Diabetes educators are specialized healthcare providers who have the education, experience, and credentialing needed to effectively work with people across the spectrum of diabetes to better enable them to engage in impactful self-care.^{1,2,3} Within this specialty, education, training, and experience will contribute to a range of competency levels.¹ There are currently three diabetes-specific credentials available in the US: the Certified Diabetes Educator (CDE[®]), the Board Certified in Advanced Diabetes Management (BC-ADM) and the Certified Diabetes Technology Clinician (CDTC). Specific information about these credentials can be found at linksto the organizations holding these credentials.⁴⁻⁶

In 2013, the American Association of Diabetes Educators (AADE) Board of Directors empaneled a workgroup to review the existing levels of practice for diabetes educators, and existing professional support documents. The charge was to determine if the five previously designated diabetes educator levels of practice were appropriate, and if the Association's supporting documents reflected current practice. The workgroup recommended a revision of the levels of practice to better reflect new developments that have occurred in diabetes disease management and healthcare, including the increased prevalence of prediabetes and diabetes, and changes in the healthcare professionals and paraprofessionals providing DSME. This revision to the levels of practice was approved by the AADE Board of Directors in April 2014.

Recognizing that diabetes education is a subspecialty of many professions, the revisions were made by adopting the skills acquisition Dreyfus model which is used successfully in business and the healthcare professions. This model distinguishes varying levels of expertise in a field, ranging from novice to expert.⁷⁻⁹ In addition, Bloom's taxonomy of educational objectives was used to frame the cognitive, affective, and psychomotor domains of learning in the revisions to the levels of practice. According to the revised Bloom's taxonomy, there are six cumulative levels of cognitive behavior: remembering, understanding, applying, analyzing, evaluating, and creating (formerly: knowledge, comprehension, application, analysis, synthesis, and evaluation). As the clinician moves from novice to clinical expert, he or she should also be moving from application of knowledge to analysis, synthesis, and evaluation.^{10, 11}

Revised Practice Levels

The revised levels of practice are provided in Table 1: Diabetes Educator Provider Levels and Table 2: Diabetes Paraprofessional Provider Levels. In Table 1, the Level 1, diabetes educators are typically point of care healthcare professionals who have completed the educational requirements for a specific health profession degree. They are licensed to practice in their primary professional discipline or members of a professional registry. While Level 1 diabetes educators have the basic background knowledge of diabetes inherent to health professional academic training, many have not developed a broad-based diabetes practice knowledge base. Individuals with diabetes commonly interface with Level 1 diabetes educators in hospitals, clinics, homecare, and pharmacy settings. It is critical that this level of provider has sufficient knowledge to provide accurate safe-care information to the diabetes patient. Level 1 diabetes educators are at the beginner or advanced beginner level on the Dreyfus continuum.^{8,9} The educator's focus at this level is on transmitting knowledge related to essential skills for safe selfmanagement and basic level coaching for behavior change. From the standpoint of Bloom's (revised) taxonomy, at Level 1, the educator's focus is on the lowest level objectives, e.g., Remembering, Understanding, and Applying.^{10, 11} Clinicians at this level possess the teaching and learning skills developed in their professional program of origin. The Level 1 diabetes educator can instruct the patient on simple nutrition guidelines, record keeping and the importance of attending DSME classes.

Level 2 diabetes educators are those healthcare providers who have achieved an advanced body of core knowledge and skills related to diabetes education and/or management above that which is required by the profession of origin. The Level 2 diabetes educator would possess the minimum competencies to meet the academic, professional, and experiential criteria to qualify for and maintain the CDE[®] credential. However, Level 2 diabetes educators may or may not hold the CDE[®] credential. A number of qualified educators do not meet all criteria set by the certifying board e.g., practice hours. These educators may be found in a variety of settings, and may include home care nurses, pharmacists, hospital patient educators, and academics who have considerable experience working with diabetes patients, but whose practice is not limited to diabetes. Thinking about Bloom's taxonomy, at this level, the educator's focus is on applying, analyzing, and evaluating.^{10,11} While these mid and higher level learning objectives still allow for transmission of knowledge and skill sets, there is an increasing focus on facilitating behavior change. The Level 2 educator has the knowledge, skill, and ability to provide individualized assessment of learning needs and deliver content specific to these needs.

Level 3 diabetes educators are advanced level experts in diabetes education, clinical management and/or research. This group constitutes the most expert diabetes educators, e.g., those who have the greatest amount of experience and expertise in the field of diabetes education and management. Level 3 educator/clinicians are involved in integrated, comprehensive, and global management of people with diabetes. As with the Level 2 education, diabetes educators at Level 3 may or may not hold voluntary credentialing in the specialty, but can demonstrate the competencies associated with the highest level of practice in diabetes education. This level of practice is characterized by care coordination and management, autonomous assessment, problem identification, planning, implementation, and evaluation of diabetes care. It involves excellent communication as well as complex critical thinking and clinical decision making skills. An educator at Level 3 typically has considerable experience and advanced skills in the delivery of diabetes self-management education. This knowledge and experience enables this educator to work with even the most complex patients with diabetes. Always guided by individual scope of practice, the clinician/educator's focus is on higher level counseling, regimen adjustment, therapeutic problem solving, and recognizing and prioritizing complex data. He or she engages in clinical and educational assessments to guide clinical decision-making and is a resource for development of management materials and policies. At the patient level, the Level 3 educator maximizes teaching and learning skills to focus on analyzing, evaluating, and creating.

With more than 100 million Americans in 2014 already diagnosed with or at high risk for developing diabetes, ¹² this spectrum of educators (levels 1-3) are indispensable for the delivery of DSME and support of the person with diabetes. In practice, health navigators, community health workers, pharmacy technicians, medical assistants, and others assist in the implementation of DSME programs.^{14,15,16} In support of their important roles in diabetes education, the 2013 workgroup recommended and the AADE Board of Directors approved the recognition of these individuals as diabetes paraprofessionals (Table 2). AADE recognizes 2 levels of practice for diabetes paraprofessionals. The Level 1s are complementary workers who interact with those who have or are affected by diabetes, and they have various roles in the dissemination of information, acquisition of baseline skills, and provision of and linkage to other community resources for self-management support. Level 1 diabetes paraprofessionals include lay health workers, community health workers, peer counselors, and health navigators. The Level 2s are complementary healthcare workers who have a defined role in an accredited or recognized diabetes education or prevention program. Certified community health workers, certified nursing assistants, medical assistants, registered dietetic technicians, pharmacy technicians, and others may gualify as Level 2 diabetes paraprofessionals. Through formal recognition of diabetes paraprofessionals, it is expected that Level 3 Diabetes Educators will continue to assume key roles in designing and directing DSME practice, but will also focus on how best to educate, support and mentor the paraprofessionals and other diabetes educators. To assist with this, AADE has developed a series of competencies for diabetes educators. These competencies provide structure for the knowledge, skills and abilities required for practice at each level across the continuum of diabetes care. The knowledge base needed to provide quality diabetes education is multifaceted, so the competencies are structured into five domains (Table 3). For more detailed information on these five competency domains, review the document, <u>Competencies for</u> <u>Diabetes Educators and Diabetes Paraprofessionals</u>.¹⁷

Purpose and Use of the Practice Levels

The purpose of the practice levels is to increase access to DSME and achieve better patient care by:

- 1. Delineating the roles and responsibilities of the multiple levels of diabetes educators and diabetes paraprofessionals
- 2. Suggesting a career path for diabetes educators and diabetes paraprofessionals
- 3. Clarifying the contribution that can be made by individuals who have the knowledge, capability, diversity, and language skills needed to address diabetes self-management and support in a variety of settings.

It is beyond the scope and intention of the levels to address the range of activities that diabetes care practitioners may be educated and authorized to perform based on facility and organizational policies and bylaws, clinical privileging, state practice acts, and state occupational supervision regulations.

The roles and responsibilities delineated in this document are intended for use by all individuals and organizations involved in the facilitation and delivery of diabetes education, training and care for all persons with diabetes and their families/caregivers. The list of target users includes, but is not limited to: diabetes educators, diabetes paraprofessionals, and other healthcare providers, healthcare payers and policy makers, voluntary health organizations, businesses, professional associations, governmental and non-governmental agencies, and other stakeholders.

This document is intended to be used in conjunction with the *Competencies for Diabetes Educators and Diabetes Paraprofessionals*, ¹⁷ which provide a comprehensive description of the knowledge, skills, and competencies necessary for the delivery of DSME and care at various practice levels.¹⁷

AADE will continue to monitor the usage of these guidelines and reserves the right to make changes in these guidelines without prior notice. Monitoring criteria include the frequency in which the guidelines are cited in the literature and usage rates of these guidelines among healthcare practitioners.

	Diabetes Educator	Diabetes Educator	Diabetes Educator Level 3
	Level 1	Level 2	
Educational	Level 1 educators are	Level 2 educators are	Level 3 educators are
Background	healthcare providers	healthcare providers who	advanced level experts in
-	who interact	have achieved an	diabetes education, clinical
	professionally with	advanced body of core	management and/or
	diabetes patients to	knowledge and skills	research.
	provide the essential	related to diabetes	
	knowledge and skills	education and/or	The Level 3 educator
	needed for safe self-	management above that	encompasses those involved
	care.	which is required by the	in integrated, comprehensive
		profession of origin.	and global management of
	Level 1 designation		people with diabetes. This
	includes but is not	Level 2 incorporates those	includes, but is not limited to
	limited to registered	providers who meet the	clinicians, researchers, and
	nurses (from any	academic, professional,	academics, program
	accredited entry level	and experiential criteria to	managers, healthcare
	education program),	qualify for and maintain	administrators, and
	advanced practice	the CDE [®] credential. A	consultants. The educator at
	nurses, registered	distinction is made	this level may hold the CDE®
	dietitians (licensed or	between the newly	credential, meets the
	registered), pharmacists	credentialed educator	academic, professional, and
	(licensed or registered),	who is competent in all	experiential criteria to qualify
	exercise physiologists,	and proficient in some	for and maintain the BC-ADN
	physical therapists,	areas of diabetes	credential, and may be
	physicians assistants,	knowledge, and the level	recognized as a Fellow of the
	and physicians.	3 educators who are at	American Association of
		the highest level of	Diabetes Educators. This leve
		expertise in the field.	of practice is characterized by
			care coordination and
			management, autonomous
			assessment, problem
			identification, planning,
			implementation, and
			evaluation of diabetes care.
			Additionally, it involves
			excellent communication as
			well as complex critical
			thinking and clinical decision
			making skills. High level
			clinical and non-clinical
			practice is characteristic of
			this level.

Table 1: Diabetes Educator Provider Levels

Educator/Clinician Level of Practice	Beginner/Advanced Beginner Basic	Competent/Proficient Intermediate	Expert Advanced
Expected and Domain Specific knowledge, skills,	Competencies for Diabetes Educators	Competencies for Diabetes Educators	Competencies for Diabetes Educators
adaption (KSA) for delivery of diabetes education /support	Scope of Practice, Standards of Practice, and Standards of Professional Performance for Diabetes Educators	Scope of Practice, Standards of Practice, and Standards of Professional Performance for Diabetes Educators	Scope of Practice, Standards of Practice, and Standards of Professional Performance for Diabetes Educators The clinician/educator's
	The educator's focus is on transmitting knowledge related to essential skills for safe, self-management	The educator/clinician's focus is on both knowledge and skills to create individualized self- management plans, coordinate care, interpret personal data, conduct focused and/or complete educational assessments and promote successful self-management through adaptation.	focus is on higher level counseling, regimen adjustment (as appropriate for scope of practice), recognizing & prioritizing complex data, and therapeutic problem solving, Focused and/or complete clinical and educational assessments are used to guide decision- making.
Non-Diabetes Foundational Skills for the Delivery of Diabetes Education	Bloom's taxonomy: Remembering, Understanding, Applying Teaching & Learning Skills: Pre-processed delivery models	Bloom's taxonomy: Applying, Analyzing Evaluating Teaching & Learning Skills: Individualized assessment & delivery Educator facilitated group discussion. Differentiate teaching from learning objectives	Bloom's taxonomy: Analyzing, Evaluating, Creating Teaching & Learning Skills: Creative, Individualized teaching for self- management. Developing and evaluating new models of education
Novice to Expert Continuum (Dreyfus Model): Expertise develops over time	Entry Level Clinician/Educator	CDE [®] /Experienced Clinician	BC-DM/CDE®/FAADE/Expert
Years in <i>Direct</i> Diabetes Education and/or Management	0 – 2 years of direct care experience in diabetes (percentage of time devoted to diabetes specialty practice)	3 – 5 years post achievement of CDE [®] /or more experienced in diabetes clinical/ educational care	More than 5 years of direct engagement in the diabetes as a specialty practice

	Diabetes Paraprofessional Level 1	Diabetes Paraprofessional Level 2
Background and	Level 1 diabetes paraprofessionals are	Level 2 diabetes paraprofessionals are
Criteria	complementary workers who interact	complementary healthcare workers
	with those who have or are affected by	who have a defined role in a certified
	diabetes. The Level 1s have various roles in the dissemination of information,	or recognized diabetes education or prevention program.
	acquisition of baseline skills and provision	They may also be aligned with practices
	of self-management support.	that serve a dedicated or focused proportion of diabetes patients.
	Level 1 designation includes, but is not	
	limited to lay health, community health workers, peer counselors, health	The Level 2 designation includes, but is not limited to, Certified Community
	navigators, health promoters, health	Health Workers, Certified Nursing
	coaches, and assistive school personnel	Assistants, Medical Assistants, Dietetic
	with some level of preparation in a	Technicians Registered, Pharmacy
	recognized healthcare field.	Technicians, Physical Therapy
		Assistants, and Licensed Practical
		Nurses.
Dreyfus Model Level	Novice to Expert specific to role	Novice to Expert specific to role
Expected and Domain Specific knowledge,	Competencies for diabetes paraprofessionals	Competencies for diabetes paraprofessionals
skills, adaption (KSA)	Scope of Practice, Standards of Practice,	Scope of Practice, Standards of Practice,
for diabetes	and Standards of Professional	and Standards of Professional
paraprofessionals	Performance for Diabetes Educators	Performance for Diabetes Educators
	Minimal knowledge	
	Practical problem solving	
	Advocacy	

Table 2: Diabetes Paraprofessionals Provider Levels

Table 3: Competencies for Diabetes Educators and Diabetes Paraprofessionals

Domain I: Pathophysiology, Epidemiology, and Clinical Practice of Prediabetes and Diabetes

This domain addresses the competencies needed for individuals to demonstrate familiarity with pathophysiology, epidemiology, and clinical guidelines consistent with diabetes care provider level.

Domain II: Culturally Competency Across the Lifespan

This domain addresses the competencies needed to provide diabetes support and care ina culturally-competent manner across the lifespan.

Domain III: Teaching and Learning Skills

This domain addresses the competencies needed to apply principles of teaching and learning and/or behavior change to facilitate self-management skills of individuals with diabetes. Pursues ongoing professional development.

Domain IV: Self-Management Education

This domain addresses the competencies needed to work with an interdisciplinary diabetes care team to tailor interventions to individual patient self-management education needs.

Domain V: Program and Business Management

This domain addresses the competencies needed to apply principles of program and/or business management to create a climate that supports successful self-management of diabetes.

Source: American Association of Diabetes Educators, Chicago, Illinois, USA, 2016.

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