

Empowering Persons with Diabetes (PWD): Putting Diabetes Self-Management Consensus Principles to Work



Recorded to replace
AAPA meeting

Speaker Disclosures:

- Joan K. Bardsley:
 - Consultant Joslin Clinic Boston, MA, NCBDE (NCBDCES) Testing Committees.
 - Past: Past chair, NCBDE, Past President ADCES, Primed lectures
- Ellen D. Mandel:
 - Nothing to disclose

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Learning Objectives

- Describe current issues effecting PAs' management of persons with diabetes
- List common interfering issues with access to and delivery of diabetes self management education & support (DSMES)
- Summarize the evidence-based medicine (EBM) practices supporting the benefits of DSMES
- Describe the 4 critical times for referral to DSMES services
- Describe currently available Medicare and insurer funding for DSMES

Pre-Test Question #1



Your primary care practice cares for a large number of people with diabetes (PWD). You have availability of a diabetes self-management education and support (DSMES) service and wonder which times are considered critical times to refer for this service. Which of the following are these times?

1. At diagnosis
2. Annually
3. When complications arise
4. When transitions of care take place
5. All of the above situations

Pre-Test Question #2



You have just referred a person with type 2 diabetes to the diabetes self-management education and support (DSMES) service. Which of the following outcomes would you expect based on participation in this program?

1. Increase in diabetes-related costs
2. Increased patient confusion about their diabetes
3. Improved quality of life & coping
4. No appreciable change in HbA1c

Pre-Test Question #3



You are caring for a person with diabetes and want to refer to the DSMES service. What attributes would make this program more successful?

1. Short but intense course
2. Behavioral support
3. Independent of medical care
4. Didactic delivery
5. Carried out by a physician

A Snapshot of Diabetes in the United States

DIABETES

34.2
MILLION

34.2 million people have diabetes



That's about 1 in every 10 people



1 IN 5 don't know they have diabetes

PREDIABETES

88
MILLION



88 million adults — more than 1 in 3 — have prediabetes

MORE THAN
8 IN 10

adults don't know they have prediabetes

COST



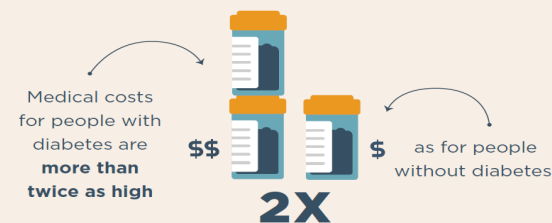
\$327
BILLION

Total medical costs and lost work and wages for people with diagnosed diabetes

Risk of early death for adults with diabetes is

60%
HIGHER

than for adults without diabetes



Diabetes, Cardiovascular Disease, and Death: PWD

- Heart disease rates among PWD adults are 2 to 4 times higher
- Cardiovascular death rates are increased by 50% in PWD
- Stroke risk is increased: RR ranging from 1.8 - 6 fold
- The event rate for CHF is higher than any other complications after ACS
- Men and women with diabetes over ≥ 50 years of age respectively live an average of 7.5 and 8.2 years less than those without diabetes

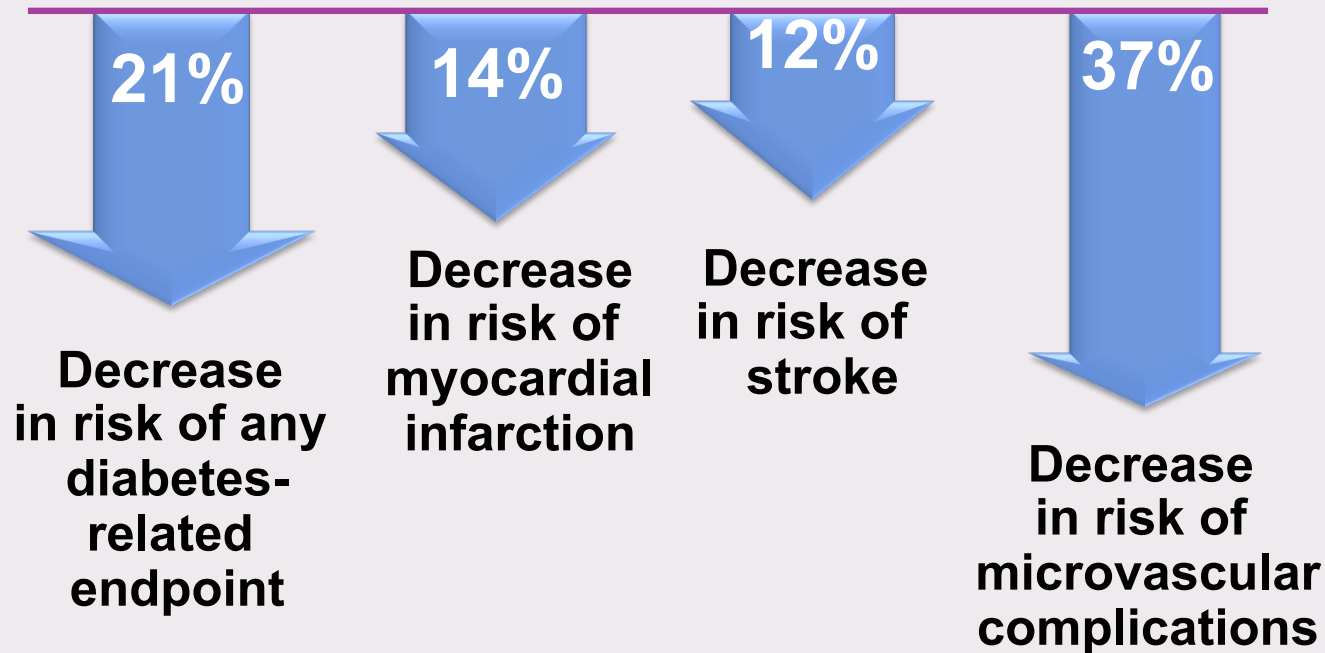
References: 1. Go AS, Mozaffarian D, Roger VL, et al.; on behalf of the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. *Circulation*. 2014;129:e28–e292. 2. Franco OH, Steyerberg EW, Hu FB, Mackenbach J, Nusselder W. *Arch Intern Med*. 2007;167:1145–1151; 3. Malmberg K et al. *Circulation*. 2000;102:1014-1019.

Microvascular Complications: PWD

- In 2005-2008, of adults ≥ 40 years of age with diabetes, 4.2 million (28.5%) had diabetic retinopathy
 - 655,000 (4.4%) had advanced diabetic retinopathy
- In 2010, about 73,000 non-traumatic lower-limb amputations were performed in adults ≥ 20 years of age with diabetes
- About 60% of non-traumatic lower-limb amputations among adults ≥ 20 years of age are in people with diabetes
- Diabetes was listed as the primary cause of kidney failure in 44% of all new cases in 2011

Evidence for Benefit of Glycemic Control

Every 1% Decrease in HbA1c Resulted in...

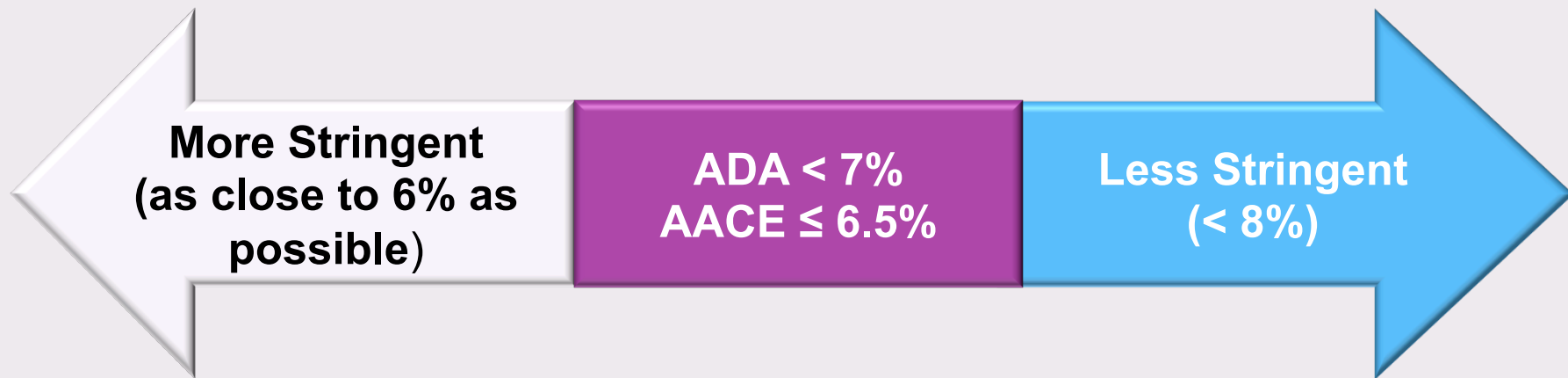


*According to the United Kingdom Prospective Diabetes Study (UKPDS)

*The study population was 82% White, 10% Asian Indian, and 8% Afro-Caribbean.

References: Stratton IM, et al. *BMJ*. 2000;321:405-412.

HbA1c Goal is Not a “One-size-fits-all”

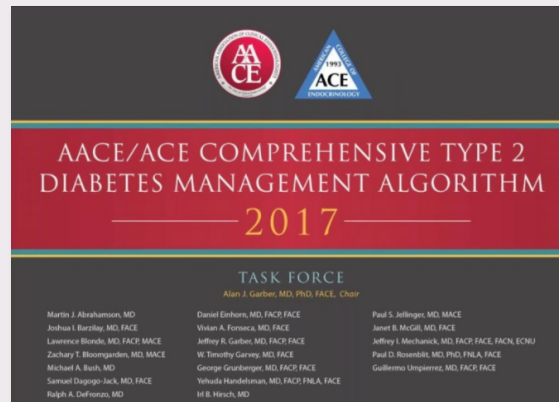
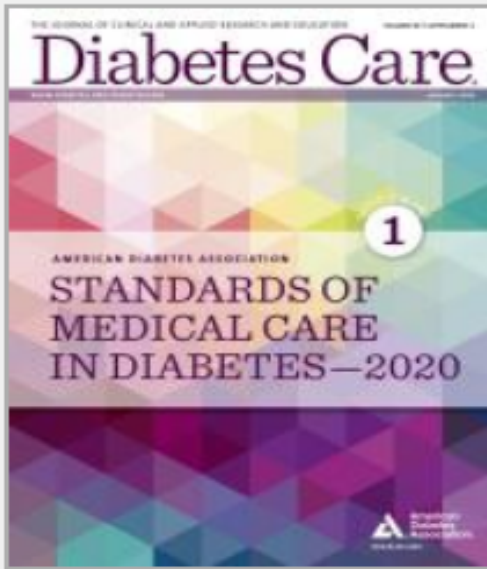


- ▶ Short diabetes duration
- ▶ Long life expectancy
- ▶ No cardiovascular disease

ADA = American
Diabetes Association
AACE = American
Association of Clinical
Endocrinologists

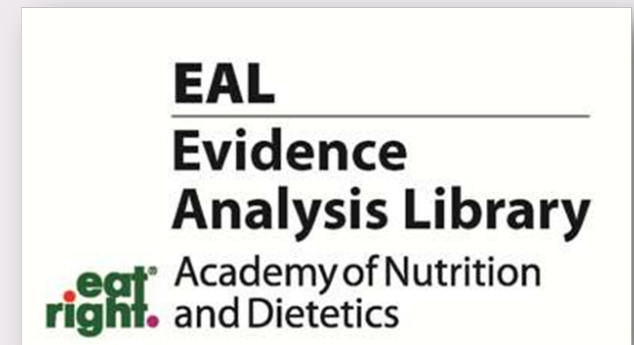
- ▶ Long diabetes duration
- ▶ Short life expectancy
- ▶ Complications,
comorbidities
- ▶ History of severe
hypoglycemia

Resources for Diabetes Education

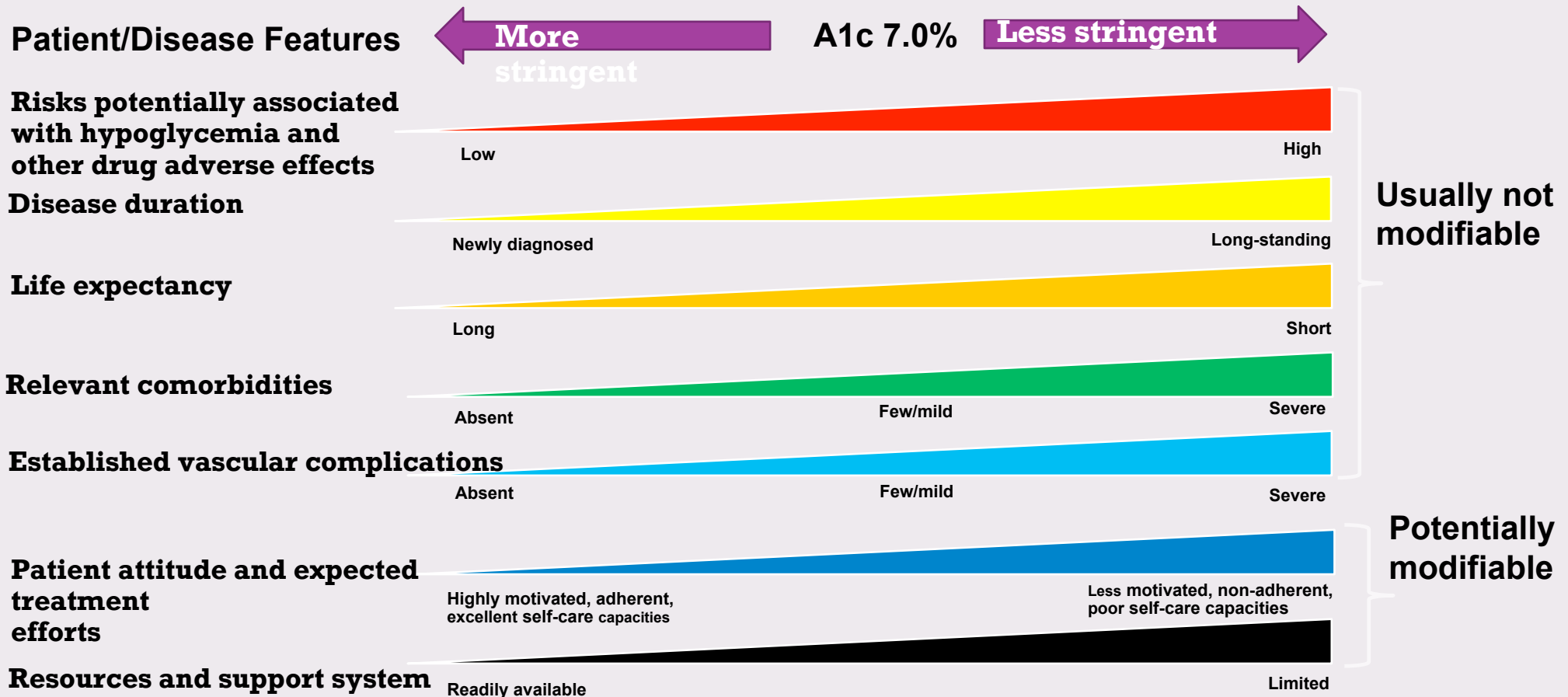


Diabetes Self-management Education and Support in Type 2 Diabetes

A Joint Position Statement of the American Diabetes Association, the American Association of Diabetes Educators, and the Academy of Nutrition and Dietetics

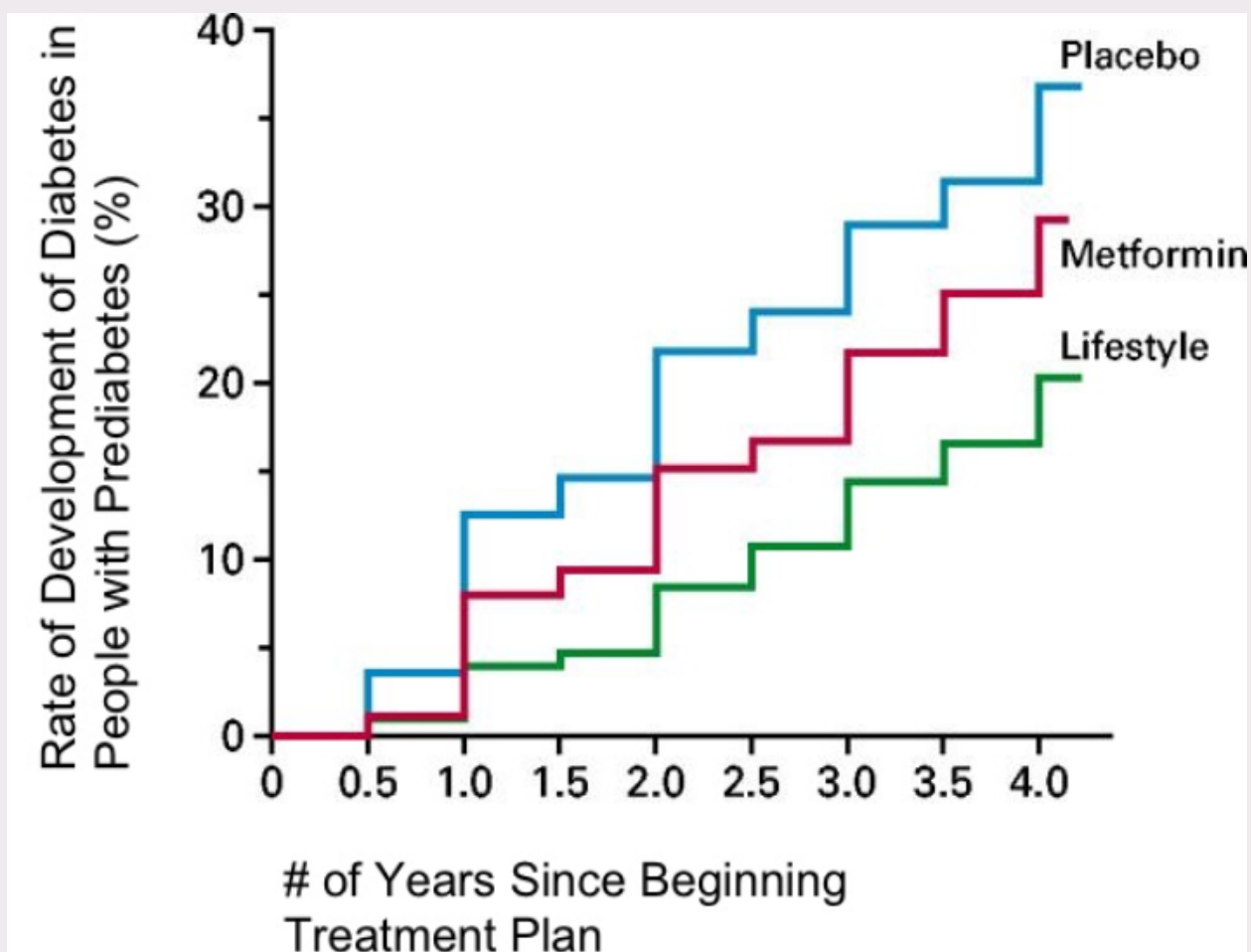


ADA: Approach to the Management of Hyperglycemia



References: ADA. *Diabetes Care*. 2017; 40(1):S1-S135

Incidence of Diabetes Among Those with Prediabetes



Risk reduction
31% by metformin
58% by lifestyle
Lowest by Placebo

References: The DPP Research Group, NEJM 346:393-403, 2002

ADA & AACE

Modifiable Variables Impact Treatment and Glycemic Control of T2DM

Three Modifiable Variables Accounted for 48% Variance in Diabetes Control

- ▶ Initial HbA1c
- ▶ **Clinical inertia**
- ▶ Visit frequency and patient participation

Greater attention to:

- ▶ early diagnosis and treatment
- ▶ ensuring regular healthcare visits
- ▶ overcoming therapeutic inertia

Could improve diabetes control and health equity

Getting started with DSMES.....

Monotherapy Metformin

EFFICACY*	high
HYPO RISK	low risk
WEIGHT	neutral/loss
SIDE EFFECTS	GI/lactic acidosis
COSTS*	low

If A1C target not achieved after approximately 3 months of monotherapy, proceed to 2-drug combination (order not meant to denote any specific preference – choice dependent on a variety of patient- & disease-specific factors):

Lifestyle Management

Dual Therapy Metformin +

	Sulfonylurea	Thiazolidinedione	DPP-4 inhibitor	SGLT2 inhibitor	GLP-1 RA
EFFICACY*	high	high	intermediate	intermediate	high
HYPO RISK	moderate risk	low risk	low risk	low risk	low risk
WEIGHT	gain	gain	neutral	loss	loss
SIDE EFFECTS	hypoglycemia	edema, HF, fxs	rare	GU, dehydration, fxs	GI
COSTS*	low	low	high	high	high

If A1C target not achieved after approximately 3 months of dual therapy, proceed to 3-drug combination (order not meant to denote any specific preference – choice dependent on a variety of patient- & disease-specific factors):

Triple Therapy Metformin +

Sulfonylurea +	Thiazolidinedione +	DPP-4 inhibitor +	SGLT2 inhibitor +	GLP-1 RA
TZD	SU	SU	SU	
or DPP-4-i	or DPP-4-i	or TZD	or TZD	
or SGLT2-i	or SGLT2-i	or SGLT2-i	or DPP-4-i	
or GLP-1-RA	or GLP-1-RA	or Insulin*	or GLP-1-RA	
or Insulin*	or Insulin*		or Insulin*	

If A1C target not achieved after approximately 3 months of triple therapy and patient (1) on oral combination, move to basal insulin or GLP-1 RA, (2) on GLP-1 RA, add basal insulin, or (3) on optimally titrated basal insulin, add GLP-1 RA or mealtime insulin. Metformin therapy should be maintained, while other oral agents may be discontinued on an individual basis to avoid unnecessarily complex or costly regimens (i.e., adding a fourth antihyperglycemic agent).

Combination Injectable Therapy (See Figure 8.2)

LIFESTYLE THERAPY (Including Medically Assisted Weight Loss)

Entry A1C < 7.5%

Entry A1C ≥ 7.5%

Entry A1C > 9.0%

MONOTHERAPY*

- ✓ Metformin
- ✓ GLP-1 RA
- ✓ SGLT-2i
- ✓ DPP-4i
- ⚠ TZD
- ✓ AGi
- ⚠ SU/GLN

If not at goal in 3 months proceed to Dual Therapy

DUAL THERAPY*

- ✓ GLP-1 RA
- ✓ SGLT-2i
- ✓ DPP-4i
- ⚠ TZD
- ⚠ Basal Insulin
- ✓ Colesevelam
- ✓ Bromocriptine QR
- ✓ AGi
- ⚠ SU/GLN

If not at goal in 3 months proceed to Triple Therapy

TRIPLE THERAPY*

- ✓ GLP-1 RA
- ✓ SGLT-2i
- ⚠ TZD
- ⚠ Basal insulin
- ✓ DPP-4i
- ✓ Colesevelam
- ✓ Bromocriptine QR
- ✓ AGi
- ⚠ SU/GLN

If not at goal in 3 months proceed to or intensify insulin therapy

SYMPTOMS

NO YES

- ✓ DUAL Therapy
- OR
- ✓ TRIPLE Therapy
- INSULIN ± Other Agents

ADD OR INTENSIFY INSULIN

Refer to Insulin Algorithm

LEGEND

- ✓ Few adverse events and/or possible benefits
- ⚠ Use with caution

* Order of medications represents a suggested hierarchy of usage; length of line reflects strength of recommendation

PROGRESSION OF DISEASE

Definitions

Diabetes Self-management Education and Support (DSMES)*

The process of facilitating the knowledge, skill, and ability necessary for diabetes self-care and providing support required for implementing and sustaining coping skills and behaviors needed to self-manage on an ongoing basis

Medical Nutrition Therapy (MNT)

Application of nutrition care process; includes individualized nutrition assessment, nutrition diagnosis, intervention and monitoring and evaluation; if not included in DSMES program, refer to RDN

* CMS/Medicare uses DSMT – Diabetes Self-Management **Training**

DSMES Benefit is Underutilized

5%

Of **Medicare** beneficiaries with newly diagnosed diabetes used DSMT services¹

6.8%

Of individuals with newly diagnosed T2D with **private health** insurance received DSMES within 12 months of diagnosis²

What Are the Barriers to DSMES?



Person with Diabetes

- Readiness
- Other medical concerns
- Time
- Finances/cost
- Literacy/numeracy
- Culture/language
- Competing priorities
- Never told of the benefits or referred



Provider & System

- Providers not convinced of benefit
- Make assumptions – not needed
- Time
- Location / access
- Insurance /billing

Diabetes Self Management Education and Support

Why?

What?

Who?

Where?

How?

When?

Tools you
can use

Why? Evidence for the Benefits of DSMES

Improves...

Knowledge and behavior

Clinical outcomes (HbA1c, weight)

Quality of life & healthy coping

Cost

Improvements enhanced when...

DSMES is longer duration

Follow-up support is given

Is individualized (age, culturally appropriate, etc.)

Change in HbA1c by Mode of DSMES Delivery

Does DSMES improve HbA1c in T2D adults as compared with those who received usual care (and no DSMES)?


References: Chrvala et al. Pt Ed & Counselling 2016;99:926-943

Patient Education and Counseling 99 (2016) 926–943

Contents lists available at ScienceDirect

Patient Education and Counseling

journal homepage: www.elsevier.com/locate/pateducou



Review article

Diabetes self-management education for adults with type 2 diabetes mellitus: A systematic review of the effect on glycemic control

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Diabetes self-management education
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ABSTRACT

Objective: Assess effect of diabetes self-management education and support methods, providers, duration, and contact time on glycemic control in adults with type 2 diabetes.

Method: We searched MEDLINE, CINAHL, EMBASE, ERIC, and PsycINFO to December 2013 for interventions which included elements to improve participants' knowledge, skills, and ability to perform self-management activities as well as informed decision-making around goal setting.

Results: This review included 118 unique interventions, with 61.9% reporting significant changes in A1C. Overall mean reduction in A1C was 0.74 and 0.17 for intervention and control groups; an average absolute reduction in A1C of 0.57. A combination of group and individual engagement results in the largest

Best Results from both Group and Individual

Mode	Number of interventions	Intervention (SD)	Control (SD)	Absolute difference in A1C with DSME added
<i>All Models Together</i>	118	-0.74(0.63)	-0.17(0.5)	0.57
Combination (individual and group)	22	-1.0(0.6)	-0.22(0.62)	0.88
Group	33	-0.62(0.46)	-0.10(0.42)	0.52
Individual	47	-0.78(0.63)	-0.28(0.46)	0.50
Remote	12	-0.50(0.67)	-0.17(0.46)	0.33

References: Chrvala et al. Pt Ed & Counselling 2016;99:926-943

If DSMES were a pill, would you prescribe it?



If DSMES was a pill, would you prescribe it?

Benefits of DSMES

Efficacy.....High
Hypo Risk.....Low
Weight.....Neutral / Loss
Side Effects.....None
Costs.....Low/Savings
Psychosocial benefits..High

Benefits of Metformin

Efficacy.....High
Hypo Risk.....Low
Weight.....Neutral / Loss
Side Effects.....GI
Costs.....Low
Psychosocial benefits.....NA

All people with diabetes should participate in DSMES needed to facilitate the knowledge, decision-making and skills mastery necessary for diabetes self care **A**

An individualized MNT program is recommended for all people with diabetes as an effective component of the overall treatment plan **A**

References: Powers MA. ADA President Health Care and Education Address, ADA June 2016; Powers MA. If DSME were a pill. Diabetes Care 2016;39.:2101-2107

What? Standards Guide Diabetes Education



2017 National Standards for Diabetes Self-Management Education and Support

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The “Standards”:

- Define *quality* for education programs
 - who* can teach
 - what is taught*
 - what is evaluated*
- Model for *reimbursement*
- New emphasis on prevention / pre-diabetes
- More focus on *ongoing support*

What Is the Focus of Education?



Association of Diabetes Care & Education Specialists

7 Self-Care Behaviors™

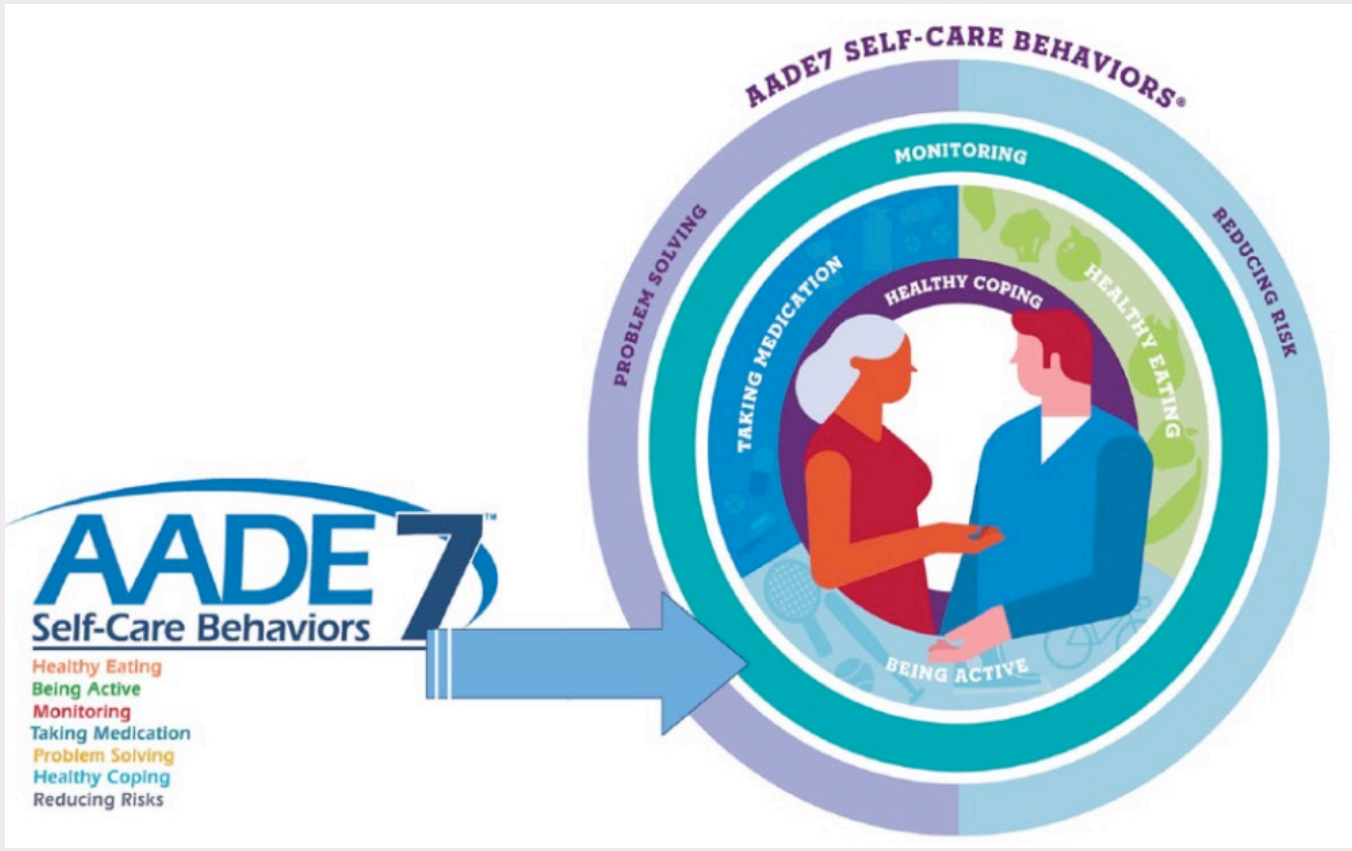
What it is Not.....

- One time
- Teaching facts
- Telling what to do
- Independent of medical care

What it is.....

- Ongoing
- Collaborative goal setting – between person with diabetes and provider
- Behavior change support / trouble shooting





References: AADE. Diabetes Educator 2020; 46(2):139-160

Who? Delivery of DSMES

- Medical care providers: MD/DO, NPs, **PAs**
- Diabetes educators (RN, RDN, Pharmacist, etc)
- Advanced certificates (CDCES, BC-ADM)
- Peer counselors; community health workers
- Care managers
- “Diabetes champions” – in medical care practices



Where? How do you find DSMES Services?

Individual care providers

- RDN: www.eatright.org
- Diabetes educator: www.diabeteseducator.org
- CDCES: www.ncbde.org

Recognized or accredited education programs

- **ADA Recognized** program: www.diabetes.org/erp
- **ADCES Accredited** program:
www.diabeteseducator.org/deap

How? A Person-Centered Approach

How is diabetes affecting your daily life and that of your family?

What questions do you have?

What is the hardest part right now about your diabetes, causing you the most concern or most worrisome to you about you diabetes?

How can we best help you?

What is one thing you are doing or can do to better manage your diabetes?

Tools You Can Use

Ask...

- Open ended questions
- For patients solutions
- For a teach back
- For a SMART goal
- What is needed for support

Offer...

- Written instructions to patients
- Praise for efforts (not results!)
- Referrals for DSMES / MNT
- Training for your staff



Association of Diabetes Care & Education Specialists



June 1, 2020 online paper will include:



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Diabetes Self-management Education and Support in Type 2 Diabetes: A Joint Position Statement of the American Diabetes Association, the American Association of Diabetes Educators, and the Academy of Nutrition and Dietetics

Margaret A. Powers,¹ Joan Bardsley,² Marjorie Cypress,³ Paulina Duker,⁴ Martha M. Funnell,⁵ Amy Hess Fischl,⁶ Melinda Maryniuk,⁷ Linda Siminerio,⁸ and Eva Vivian⁹

Diabetes Care 2015;38:1–11 | DOI: 10.2337/dc15-0730

POSITION STATEMENT

References: Powers MA et al. DSME/S Position Statement. *Diabetes Care, The Diabetes Educator, Journal of Academy of Nutrition and Dietetics*; July 2015

When? 4 Critical Times to Provide DSMES

Diabetes Self-Management Education and Support for Adults with Type 2 Diabetes: **ALGORITHM of CARE**

ADA *Standards of Medical Care in Diabetes* recommends all patients be assessed and referred for:



FOUR CRITICAL TIMES TO ASSESS, PROVIDE, AND ADJUST DIABETES SELF-MANAGEMENT EDUCATION AND SUPPORT

1 AT DIAGNOSIS

2 ANNUAL ASSESSMENT OF EDUCATION, NUTRITION, AND EMOTIONAL NEEDS

3 WHEN NEW **COMPLICATING FACTORS** INFLUENCE SELF-MANAGEMENT

4 WHEN **TRANSITIONS** IN CARE OCCUR

DSMES Algorithm of Care

1

AT DIAGNOSIS

- Newly diagnosed. All newly diagnosed individuals with type 2 diabetes should receive DSME/S
- Ensure that both nutrition and emotional health are appropriately addressed in education or make separate referrals

2

ANNUAL ASSESSMENT OF EDUCATION, NUTRITION, AND EMOTIONAL NEEDS

- Needs review of knowledge, skills, and behaviors
- Long-standing diabetes with limited prior education
- Change in medication, activity, or nutritional intake
- HbA_{1c} out of target
- Maintain positive health outcomes
- Unexplained hypoglycemia or hyperglycemia
- Planning pregnancy or pregnant
- For support to attain or sustain behavior change(s)
- Weight or other nutrition concerns
- New life situations and competing demands

DSMES Algorithm of Care

3

WHEN NEW
**COMPLICATING
FACTORS** INFLUENCE
SELF-MANAGEMENT

CHANGE IN:

- Health conditions such as renal disease and stroke, need for steroid or complicated medication regimen
- Physical limitations such as visual impairment, dexterity issues, movement restrictions
- Emotional factors such as anxiety and clinical depression
- Basic living needs such as access to food, financial limitations

4

WHEN
**TRANSITIONS IN
CARE** OCCUR

CHANGE IN:

- Living situation such as inpatient or outpatient rehabilitation or now living alone
- Medical care team
- Insurance coverage that results in treatment change
- Age-related changes affecting cognition, self-care, etc.

DSMES (DSMNT) Reimbursement

- Education by “Recognized” or “Accredited” program
- **Written referral** by healthcare provider
- Medicare covers 10 hours of initial education in first year
 - 2 hours annually after that
- *DSM TRAINING* & MNT cannot be billed on same date
- **Medicare reimbursement includes prediabetes and telemonitoring services**

DSMES Reimbursement

▶ **G0108 (individual)**

- ▶ Per 30 minutes
- ▶ \$54.70* (increased from \$23.45)

■ **G0109 (group)**

- ▶ 2+ patients
- ▶ Per 30 minutes/per patient
- ▶ \$18.69* (increased from \$12.99)

*National Average rates. You can find state specific fee schedules at the **CMS website** at: <http://www.cms.gov/apps/physician-fee-schedule/overview.aspx>

Referral Form for DSMT / MNT

Diabetes Services Order Form (DSMT and MNT Services)

*Indicates required information for Medicare order

PATIENT INFORMATION

Patient's Last Name _____ First Name _____ Middle _____
 Date of Birth ____/____/____ Medicare HICN # _____ Gender ____ Male ____ Female
 Address _____ City _____ State _____ Zip Code _____
 Home Phone _____ Work Phone _____ Other Contact Phone _____

Diabetes self-management training (DSMT) and medical nutrition therapy (MNT) are individual and complementary services to improve diabetes care. For Medicare beneficiaries, both services can be ordered in the same year. Research indicates MNT combined with DSMT improves outcomes.

DIABETES SELF-MANAGEMENT TRAINING (DSMT)

Medicare: 10 hours initial DSMT in 12-month period, plus 2 hours follow-up DSMT annually

*Check type of training services and number of hours requested:

- Initial group DSMT: 10 hours or ____ no. hrs. requested
 Follow-up DSMT: 2 hours or ____ no. hrs. requested
 Additional insulin training: ____ no. hrs. requested

* Patients with special needs requiring individual DSMT

Check all special needs that apply:

- Vision Hearing Physical Cognitive Impairment
 Language Limitations Other _____

* DSMT Content

- All ten content areas, as appropriate
 Monitoring diabetes Diabetes as disease process
 Psychological adjustment Physical activity
 Nutritional management Goal setting, problem solving
 Medications Prevent, detect and treat acute complications
 Preconception/pregnancy management or gestational diabetes management Prevent, detect and treat chronic complications

MEDICAL NUTRITION THERAPY (MNT)

Medicare: 3 hours initial MNT in the first calendar year, plus two hours follow-up MNT annually. Additional MNT hours available for change in medical condition, treatment and/or diagnosis.

* Check the type of MNT and/or number of additional hours requested:

- Initial MNT Annual follow-up MNT
 Additional MNT services in the same calendar year, per RD recommendations ____ no. additional hrs. requested

Please specify change in medical condition, treatment and/or diagnosis:

CURRENT DIABETES MEDICATIONS

Specify type, dose and frequency

Oral: _____

 Insulin: _____

Resources

Printed

- American Diabetes Association
 - www.diabetes.org
- Learning About Diabetes
 - www.learningaboutdiabetes.org

Nutrition

- www.calorieking.com

Apps / social media

- ▶ www.diabeticconnect.com
- ▶ www.diabeteswhattoknow.com

Resources for Training

- ▶ www.diabeteseducator.org
- ▶ www.peersforprogress.org
- ▶ <https://cme.aapa.org/>

Role of PAs in Diabetes Education

- **Identify** educators, dietitians, and other resources within the community
- **Mentor** – help train office staff (at all levels!)
- **Collaborate** and communicate – make sure educators (and patients) know goals
- **Refer** – encourage patients to keep education visits



Summary of Key Messages

- Utilize Guideline / Recommendations to help inform appropriate selection of therapies in light of disease burden & comorbidities
- Diabetes is a self-management disease
 - The person with diabetes “in charge” 24/7
 - Diabetes education is effective
- Everyone with diabetes should receive education
 - 7 key areas for behavior change
 - Education can take up to 10 hours a year – or more!
 - Continuous reassessment and ongoing support is essential
- Tailor education messages to meet needs
 - Consider literacy
- Locate resources to help!

**"Education is the most powerful weapon which
you can use to change the world."**

Nelson Mandela

**"Each patient carries his own doctor inside him. They come
to us knowing that truth. We are at our best when we give
the doctor who resides in each patient, a chance to work."**

Albert Schweitzer, MD



Post-Test Question #1

Your primary care practice cares for a large number of people with diabetes (PWD). You have availability of a diabetes self-management education and support (DSMES) service and wonder which times are considered critical times to refer for this service. Which of the following are these times?

1. At diagnosis
2. Annually
3. When complications arise
4. When transitions of care take place
5. **All of the above situations**

Post-Test Question #2



You have just referred a person with type 2 diabetes for diabetes self-management education and support (DSMES). Which of the following outcomes would you expect based on participation in this program?

1. Increase in diabetes-related costs
2. Increased patient confusion about their diabetes
3. **Improved quality of life & coping**
4. No appreciable change in HbA1c

Post-Test Question #3



You are caring for a person with diabetes and want to refer for DSMES services. What attributes would make this program more successful?

1. Short but intense course
2. **Behavioral support**
3. Independent of medical care
4. Didactic delivery
5. Carried out by a physician

References

- Powers MA et al. Joint Position Paper: Diabetes self-management education and support for type 2 diabetes. 2015. DOI: 10.1177/0145721715588904. Anticipate using the revised paper that will be published in 2019/2020 (in advance of AAPA meeting).
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