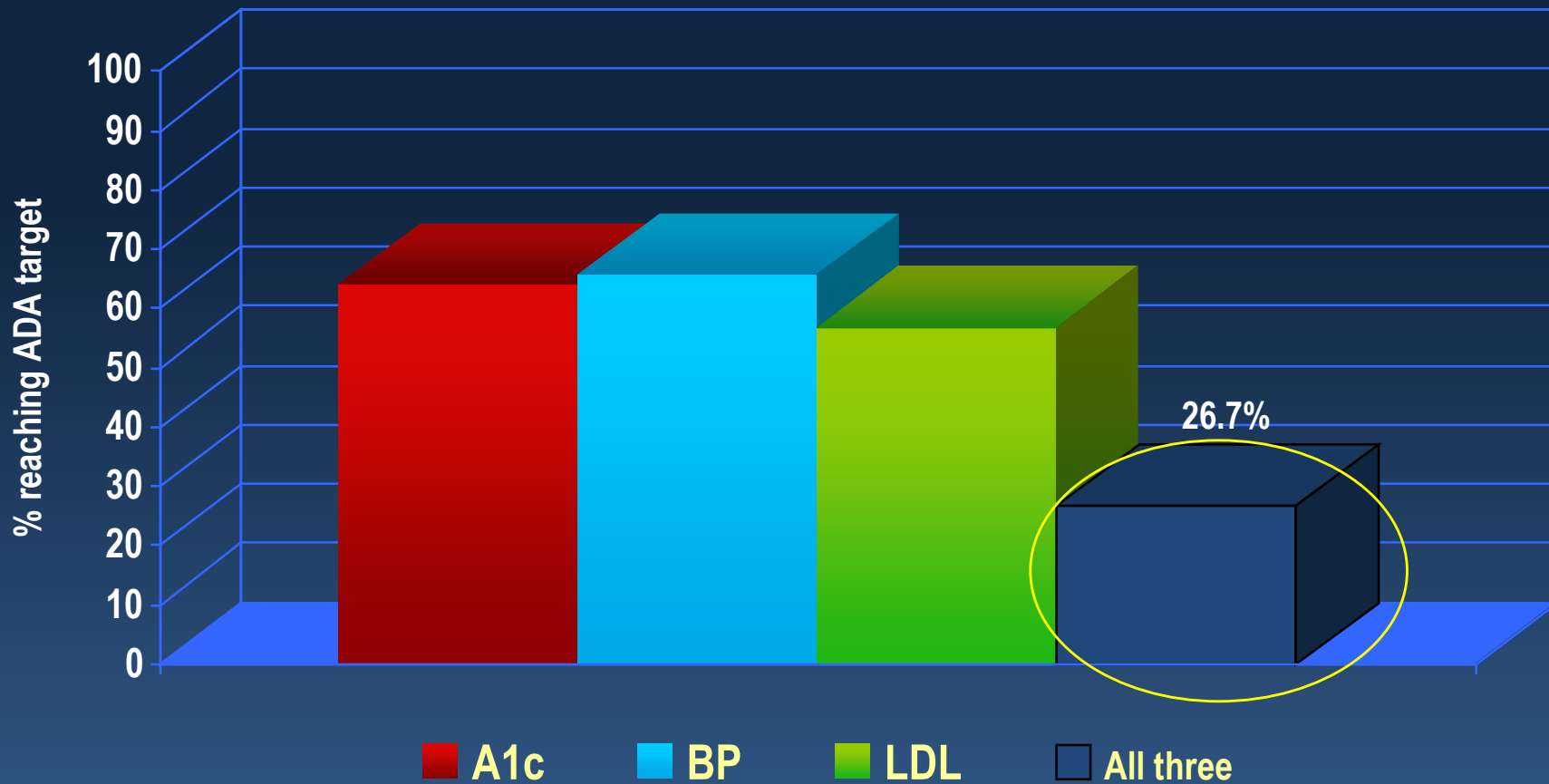


Engaging the Disengaged:

Strategies for Promoting Behavior Change in Diabetes

William H. Polonsky, PhD, CDE
whp@behavioraldiabetes.org

Percentage of Patients Achieving ADA Treatment Targets



Why Such Poor Cardiometabolic Outcomes?

- Macroeconomic factors (e.g., poverty)
- Limitations of currently available tools
- HCP behavior (e.g., clinical inertia)
- Patient behavior (e.g., self-management)

An Illustration

3295 insulin-naïve T2Ds were identified who had been recommended insulin:

- 984 (29.9%) declined
- Of the 984 who declined, 374 (38%) eventually started insulin
- Of the 374 who finally initiated, mean time to insulin initiation was 790 days.

Number of Patients Who Avoid Sharing Information with Their HCP

Type of Information	Ever Avoided Informing the Clinician, No. (%)	
	MTurk (n = 2011)	SSI (n = 2499)
Disagreed with clinician's recommendation	918 (45.7) (n = 2010)	785 (31.4) (n = 2497)
Did not understand clinician's instructions	638 (31.8) (n = 2009)	607 (24.3) (n = 2497)
Had unhealthy diet	493 (24.5) (n = 2009)	506 (20.3) (n = 2491)
Did not take prescription medication as instructed	453 (22.5) (n = 2011)	439 (17.6) (n = 2491)
Did not exercise	446 (22.2) (n = 2008)	538 (21.6) (n = 2495)

HCP Attributions Regarding Poor Adherence in Diabetes

HCP top 5 complaints:

1. Patients say they want to change, but are not willing to make the necessary changes
2. Not honest/Only tells me what they think I want to hear
3. Don't listen to my advice
4. Diabetes not a priority/Uninterested in their condition/"In denial"/Don't care/Unmotivated
5. They do not take responsibility for self-management



I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good
I will be Good



Why Avoid Sharing Information?

Table 2. Percentage of Times a Reason Was Selected for Avoiding Telling the Clinician Collapsed Across Types of Information^a

Reason	% (95% CI)	
	MTurk	SSI
I didn't want to be judged or get a lecture about my behavior.	81.8 (79.8-83.9)	64.1 (61.5-66.7)
I didn't want to hear how bad [insert behavior] is for me.	75.7 (73.5-78.0)	61.1 (58.5-63.8)
I was embarrassed to admit that I [insert item].	60.9 (58.9-62.9)	49.9 (47.8-52.1)
I didn't want the health care provider to think that I'm a difficult patient.	50.8 (48.7-52.9)	38.1 (36.0-40.3)
I didn't want to take up any more of the health care provider's time.	45.2 (42.6-47.9)	35.9 (33.2-38.7)
I didn't think it mattered.	38.6 (36.6-40.6)	32.9 (30.9-35.0)
I didn't want the health care provider to think that I'm stupid.	37.6 (35.7-39.6)	30.6 (28.6-32.7)

Real Life with Diabetes

1. Living with diabetes can be tough
 - It is a time-consuming job

TABLE 2

Estimated time required for recommended care*

Task	Minutes/day
<i>ADA recommendations</i>	
Home glucose monitoring	3
Record keeping	5
Taking oral medication	4
Foot care	10
Oral hygiene, flossing	1
Problem solving	12
Meal planning	10
Shopping	17
Preparing meals	30
Exercise	30
ADA SUBTOTAL	122
<i>Other desirable self-care</i>	
Monitoring blood pressure	3
Stress management	10
Support group	2
<i>Administrative tasks</i>	
Phoning educators, doctors	1
Scheduling appointments	1
Insurance dealings	2
Obtaining supplies	2
TOTAL TIME	143

*Estimates for patients with stable diabetes who are taking oral agents and self-monitoring blood glucose once

Real Life with Diabetes

1. Living with diabetes can be tough

- It is a time-consuming job
- It is a balancing act that requires vigilance and an ability to deal with frustration





Motivation in Diabetes

- No one is unmotivated to live a long and healthy life
- The real problem: Obstacles to self-care outweigh possible benefits
 - And there are a TON of obstacles!
 - The underlying theme to most obstacles is a lack of “worthwhileness”

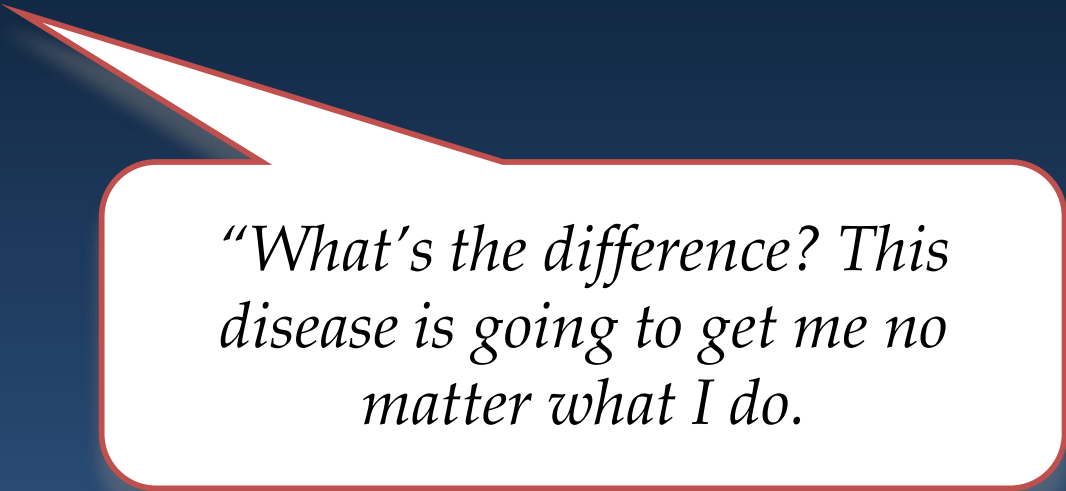
Lack of Worthwhileness

- An invisible and non-urgent disease

“Look, I’ll start worrying about my diabetes as soon as something something falls off.”

Lack of Worthwhileness

- An invisible and non-urgent disease
- Hopelessness



“What’s the difference? This disease is going to get me no matter what I do.”

Lack of Worthwhileness

- An invisible and non-urgent disease
- Hopelessness
- Discouragement

*“I did everything I was supposed to,
and now you’re telling me I have to take
even more medications?!”*

WHICH PILLS TO TAKE?



What Is Diabetes Distress?

- The felt burden of living with a tough, demanding disease
 - Despair: “I will end up with serious long-term complications, no matter what I do”
 - Discouraged: “I am often failing with my diabetes”
 - Overwhelmed: “Diabetes is taking up too much of my mental and physical energy every day”

Measuring Diabetes Distress

- **PAID (Problem Areas in Diabetes Scale)**
 - 20 items, 5-point Likert scale, no subscales
- **DDS (Diabetes Distress Scale)**
 - 17 items, 5-point Likert scale, four subscales
- **Reliability and validity are well-established**

Diabetes Distress

- Diabetes distress
 - Type 1 diabetes (n = 224): 42%
 - Type 2 diabetes (n = 36,998): 36%
- Linked to self-care and glycemic control
- Diabetes distress is often chronic
 - Of those with elevated distress at baseline: 74% remain elevated levels at 9 months.

So What To Do?



Patient-HCP Communication


A video example.....

Step 1. Assess

- The informal approach:
 - “What’s one thing about diabetes that’s driving you crazy?”
- The formal approach:
 - Use self-report instruments

Diabetesdistress.org

DD For Patients - For Providers - English



Diabetes Distress

Assessment & Resource Center

Welcome!

The Center contains resources and published papers about diabetes distress. It also provides access to validated scales and measures to assess diabetes distress for use by patients and their health care providers.



On this site you will find:

- Background information on diabetes distress for patients and providers.
- Links to other diabetes distress resources.
- Online and pdf versions of the Diabetes Distress Scales in several languages.
- Definitions of each scale and sub scale.
- Information about how each scale is scored.



Adults With Diabetes

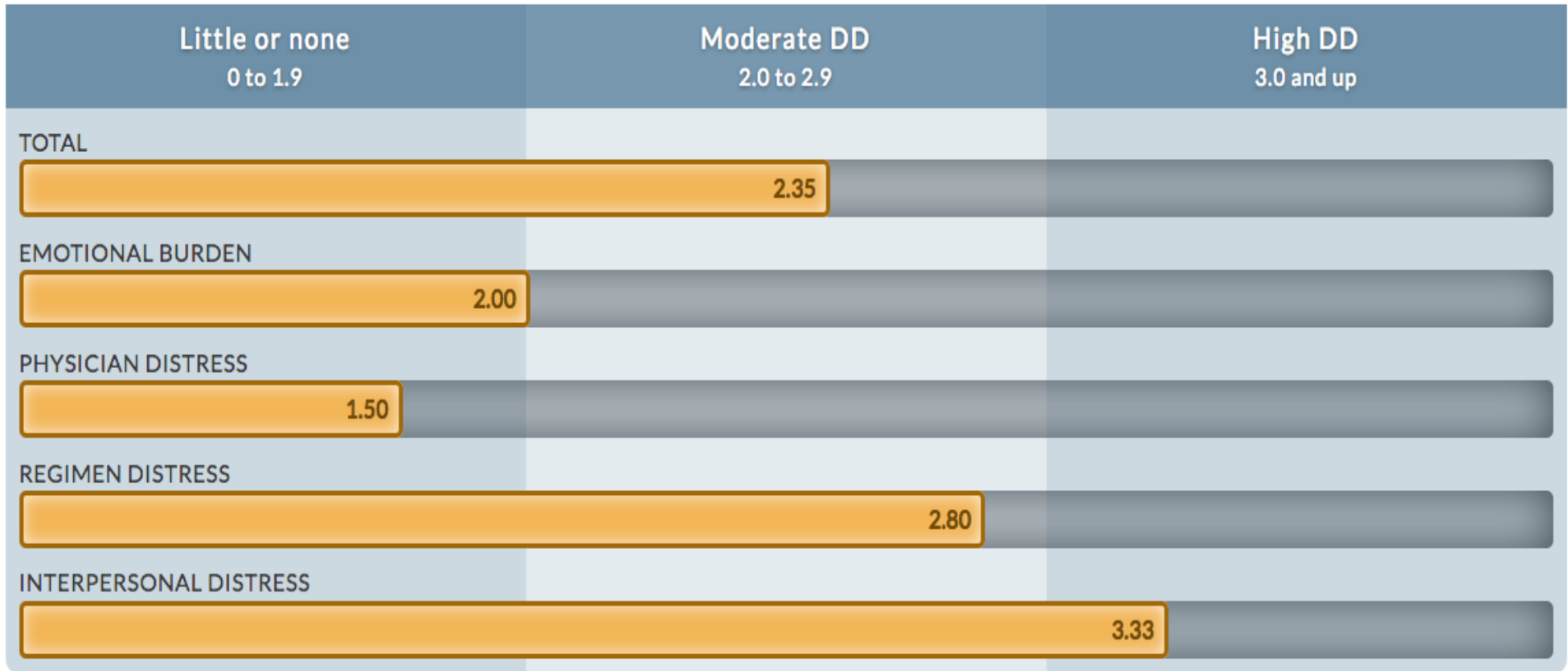


Health Care Providers

- T1-DDS & DDS in English & Spanish
- Automatically scored, with printable reports

Diabetesdistress.org

Your DDS Summary Report (page 1)



A score of 2.0 or higher on any scale suggests significant diabetes distress.

A T1-REDEEM Participant

“ It was totally unexpected and surprising. I have had diabetes for 35 years. In all that time no one has ever asked me what it was like for me to have diabetes and what it was about diabetes that I found most distressing. And even if they did ask, I doubt that they would have taken the time or had the interest to listen carefully to my answer.”

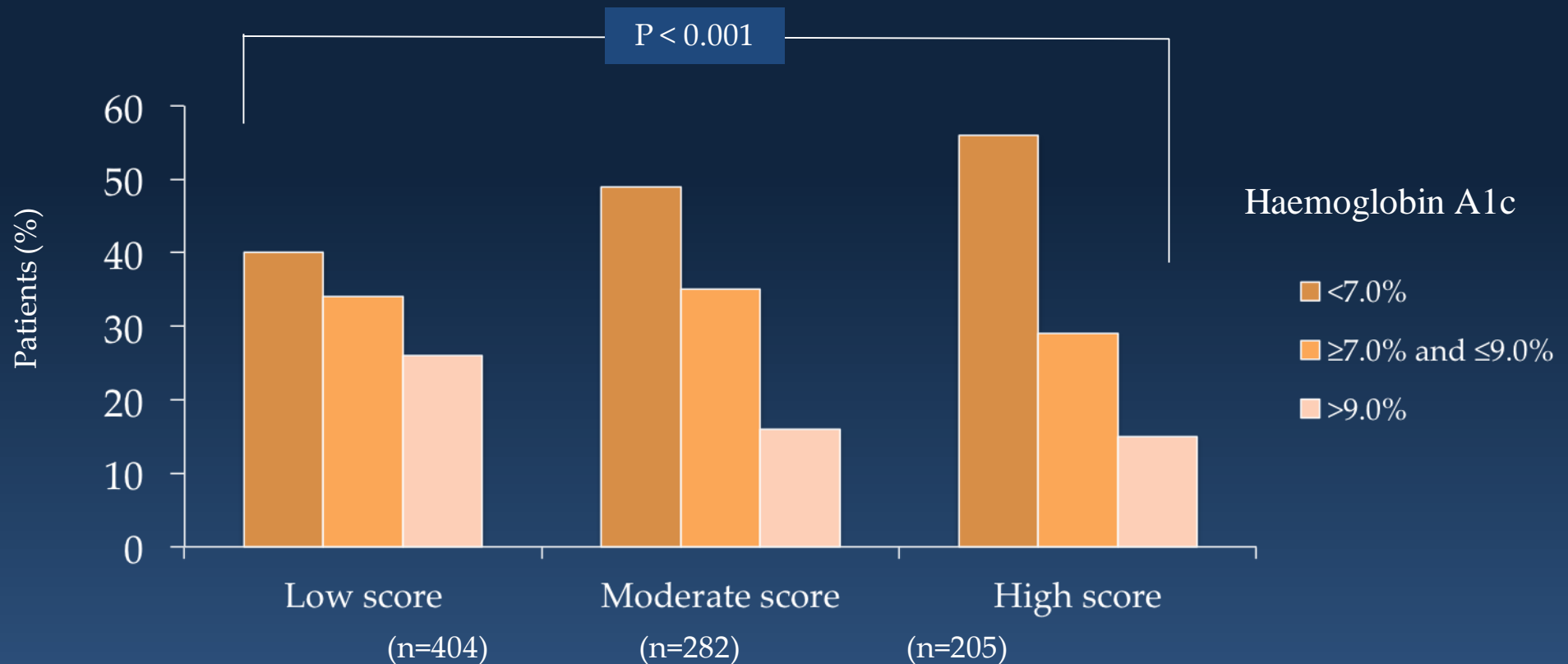
Step 2. Respond with Empathy

- Don't try to fix your patient's difficult feelings
- Instead, acknowledge and normalize
 - “Given the nature of diabetes, feeling this way is perfectly reasonable and many other people feel the same.”



Step 2. Respond with Empathy

A1c results for 891 patients, treated between 2006-2009, by levels of their HCP' empathy



HCP Empathy and Health Outcomes

A recent literature review included 7 studies (UK, US, and the Netherlands):

➤ “There is a good correlation between HCP empathy and patient satisfaction and a positive relationship with strengthening patient enablement. Empathy lowers patients' anxiety and distress and delivers significantly better clinical outcomes”



Step 3. Make the Invisible Visible

Back on Track Feedback			Name: <i>Molly B.</i>	
<u>Tests</u>	<u>Your Targets</u>	Last Results	FID #:	
	<i>Your score should be</i>		<i>SAFE: At or better than goal</i>	<i>NOT SAFE: Not yet at goal</i>
A1C	7.0% or less	8.7%		X
Blood Pressure	130/80	125/75	X	
LDL	100 or less	116		X



Step 3. Make the Invisible Visible

- Be non-judgmental.
 - Fear tactics may be counterproductive:
 - “Do you want to go blind, do you?”
 - “If you don’t do better, you’ll end up on insulin. Is that what you want, is it?!”
 - Rather than describing numbers as “good/bad” or “high/low”, use “safe/unsafe”.

Step 3. Make the Invisible Visible

- Be non-judgmental.
- Offer congratulations when possible.

“Your A1C is still too high. Don’t you understand the consequences? Why aren’t you working harder on this?”

vs.

“It’s great that you took the time to get your A1C done today. The numbers haven’t moved much, which tells us that something different is needed.”

Step 3. Make the Invisible Visible

- Be non-judgmental.
- Offer congratulations when possible.
- Provide a path forward.
 - “Let’s work together to get these important numbers to a safe place for you”.

Appealing to Fear: A Meta-Analysis of Fear Appeal Effectiveness and Theories

- 248 independent samples, $n = 27,372$
- Fear appeal: $d=0.21$
- Fear appeal + efficacy message $d=0.43$

Step 4. Share the Good News

Q. Diabetes is the leading cause of adult blindness, amputation, and kidney failure. True or false?

A. False. To a large extent, it is *poorly controlled* diabetes that is the leading cause of adult blindness, amputation and kidney failure.

Well-controlled diabetes is the leading cause of... NOTHING!

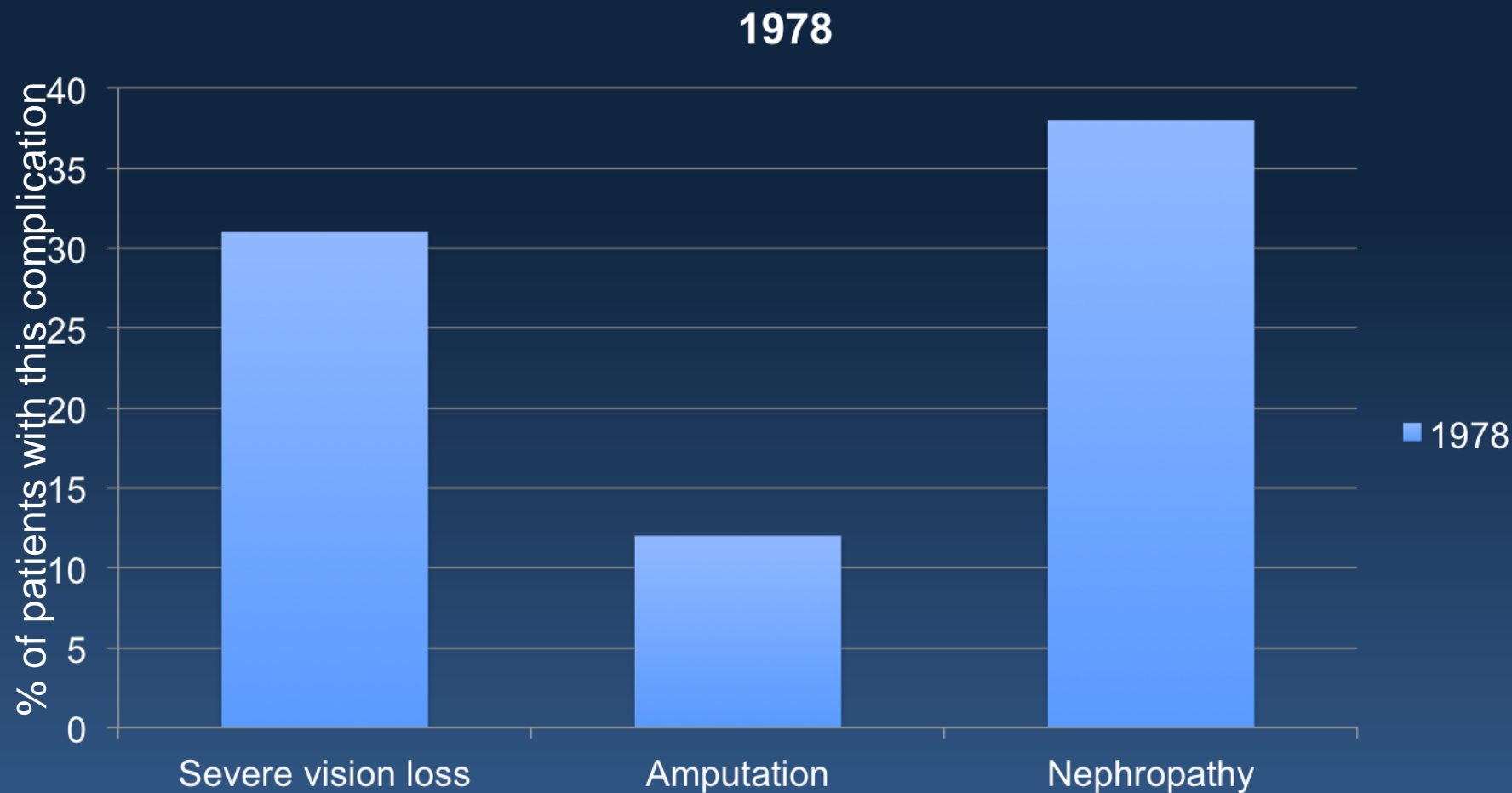
Fact Check



This doesn't mean: good care will guarantee that you will not develop complications

This does mean: with good care, odds are good you can live a long, healthy life with diabetes

T1D Complications After 30+ Years



T1D Complications After 30+ Years



In Summary

“Historical reports of frequencies of serious complications in T1D patients are clearly outdated ... rates of complications with ‘intensive’ treatment, or what would now be considered the standard of care, are substantially lower than in the past. This is indeed good news that should be openly shared with the newly diagnosed patient to help alleviate fears that may accompany the diagnosis..”

Risk Factors, Mortality, and Cardiovascular Outcomes in Patients with Type 2 Diabetes

Aidin Rawshani, M.D., Araz Rawshani, M.D., Ph.D., Stefan Franzén, Ph.D.,
Naveed Sattar, M.D., Ph.D., Björn Eliasson, M.D., Ph.D., Ann-Marie Svensson, Ph.D.,
Björn Zethelius, M.D., Ph.D., Mervete Miftaraj, M.Sc.,
Darren K. McGuire, M.D., M.H.Sc., Annika Rosengren, M.D., Ph.D.,
and Soffia Gudbjörnsdottir, M.D., Ph.D.

- **271,174 T2Ds, 1,355,870 matched controls**
- T2Ds “who had five risk-factor variables within target ranges appeared to have little or no excess risks of death, MIs, and stroke as compared with the general population.”

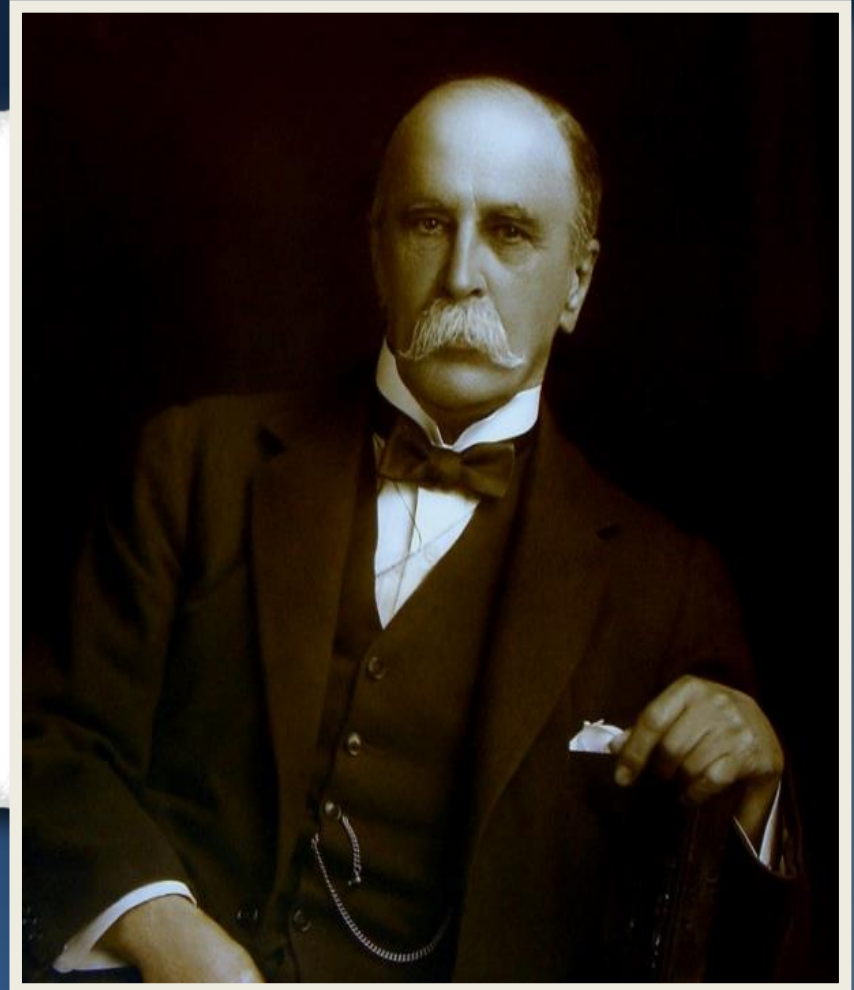
We Even Put it on Mugs!



Diabetes and Your Health

“To live a long and healthy life, develop a chronic disease and take care of it.”

- Sir William Osler



Step 5. Address Discouragement

➤ Make behavioral success easier

- Plan for actions must be doable
- Focus on the behavior, not the outcome
- Collaborative agreement and commitment

“So just to make sure we’re on the same page, what’s one diabetes-related action you’re aiming to do over the next few months?”

One Step at a Time



Step 5. Address Discouragement

- Make behavioral success easier
- Re-frame the medication conversation



Step 5. Address Discouragement

- Make behavioral success easier
- Re-frame the medication conversation
 - Taking your meds is one of the most powerful things you can do to improve your health.
 - There are always pro's and con's; the con's are probably not as big as you think.
 - More meds doesn't mean you're sicker, fewer meds doesn't mean you're healthier.

Step 5. Address Discouragement

- Make behavioral success easier
- Re-frame the medication conversation
- Provide the tools needed to be successful
 - Ongoing support

The Impact of Automated Brief Messages Promoting Lifestyle Changes Delivered Via Mobile Devices to People with Type 2 Diabetes: A Systematic Literature Review and Meta-Analysis of Controlled Trials

Carukshi Arambepola¹, MD; Ignacio Ricci-Cabello², PhD; Pavithra Manikavasagam¹, MBBS; Nia Roberts³, MSc; David P French⁴, PhD; Andrew Farmer², DM

Step 5. Address Discouragement

- Make behavioral success easier
- Re-frame the medication conversation
- Provide the tools needed to be successful
 - Ongoing support
 - Medications
 - Devices

QOL and CGM

Table 2—QOL outcomes by study arm from baseline to 24-week follow-up

	CGM group		Control group		P value
	Baseline	24 weeks	Baseline	24 weeks	
WHO-5	71.28 ± 14.71	70.47 ± 16.68	69.06 ± 14.89	67.32 ± 16.86	0.50
EQ-5D-5L	0.90 ± 0.11	0.89 ± 0.10	0.89 ± 0.11	0.88 ± 0.10	0.92
Diabetes distress (DDS)					
Total	1.78 ± 0.65	1.61 ± 0.48	1.69 ± 0.62	1.78 ± 0.65	0.03
Regimen	2.09 ± 0.87	1.81 ± 0.68	2.08 ± 0.99	2.05 ± 0.87	0.04
Emotional burden	2.06 ± 0.90	1.93 ± 0.80	1.91 ± 0.83	2.03 ± 0.95	0.09
Interpersonal	1.54 ± 0.81	1.43 ± 0.61	1.45 ± 0.70	1.73 ± 1.04	0.01
Physician	1.19 ± 0.63	1.09 ± 0.25	1.12 ± 0.25	1.18 ± 0.69	0.15
Hypoglycemic confidence (HCS)					
	3.27 ± 0.57	3.47 ± 0.55	3.15 ± 0.57	3.18 ± 0.63	0.03
Hypoglycemia fear (worry subscale of HFS-II)					
	15.75 ± 12.30	13.48 ± 10.63	17.30 ± 13.22	17.73 ± 14.92	0.15

In Summary

- Assess
- Respond with empathy
- Make the invisible visible
- Share the good news
- Address discouragement

Thanks for Listening!

Critical Psychosocial Issues in Diabetes

Web-based video modules

UC San Diego
SCHOOL OF MEDICINE



Home

Modules

The **Critical Psychosocial Issues in Diabetes** web-based program is a series of video modules designed to examine psychosocial issues in diabetes, provide a brief review of the research literature, clarify how and why the problems manifest themselves among patients with diabetes, and put forward practical solutions for the busy healthcare professional.

The American Diabetes Association published its first Psychosocial Position Statement in December, 2016, recognizing the important

www.behavioraldiabetes.org