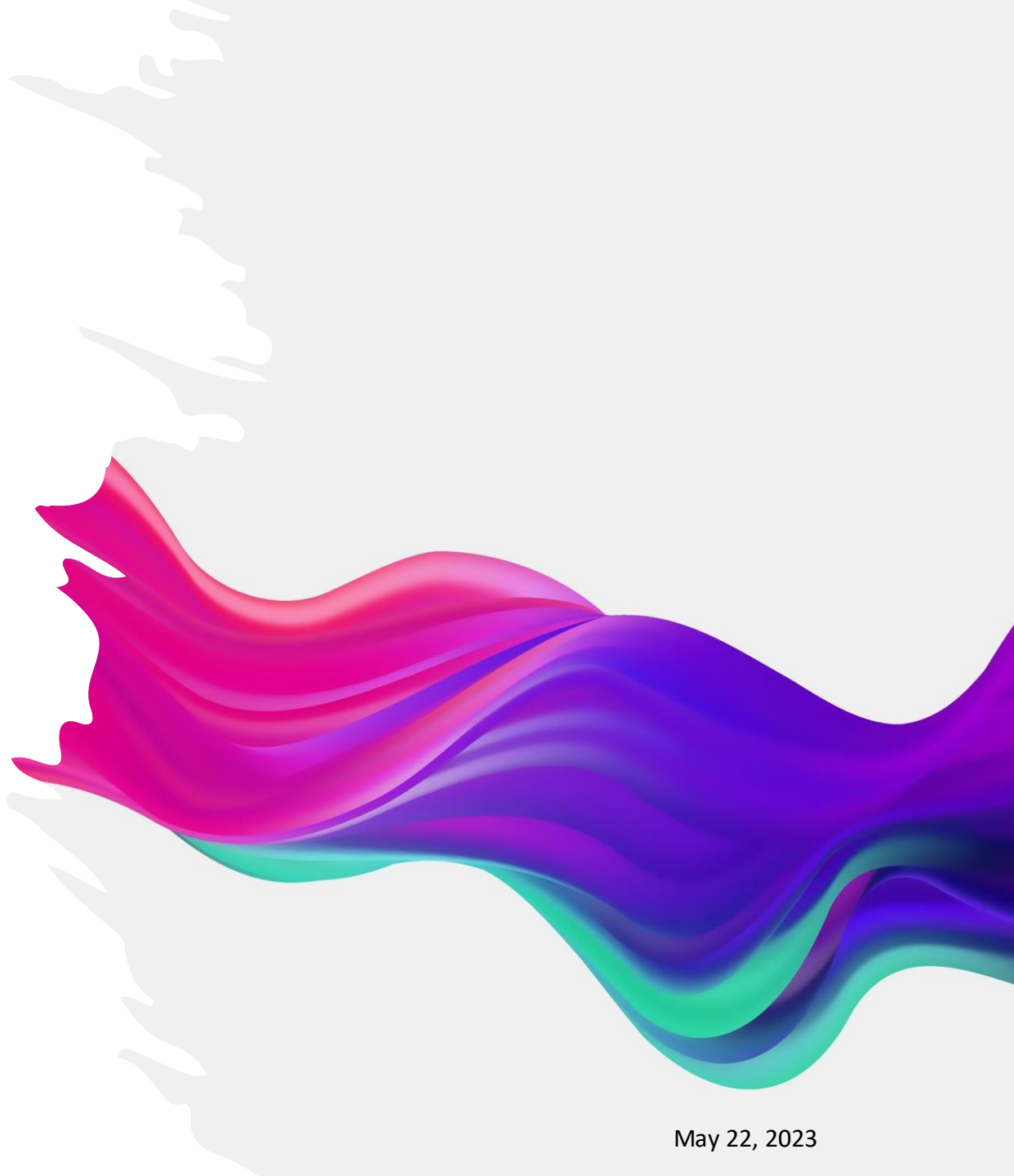


Conquering Diabetes Therapeutic Inertia: Patient Engagement Strategies

National Center for Health in Public Housing



May 22, 2023

Housekeeping

- All participants muted upon entry
- Engage in chat
- Raise hand if you would like to unmute
- Meeting is being recorded
- Slides and recording link will be sent via email
- Mentimeter case study activities
 - Go to **Menti.com**
 - Enter code **5485 6701**



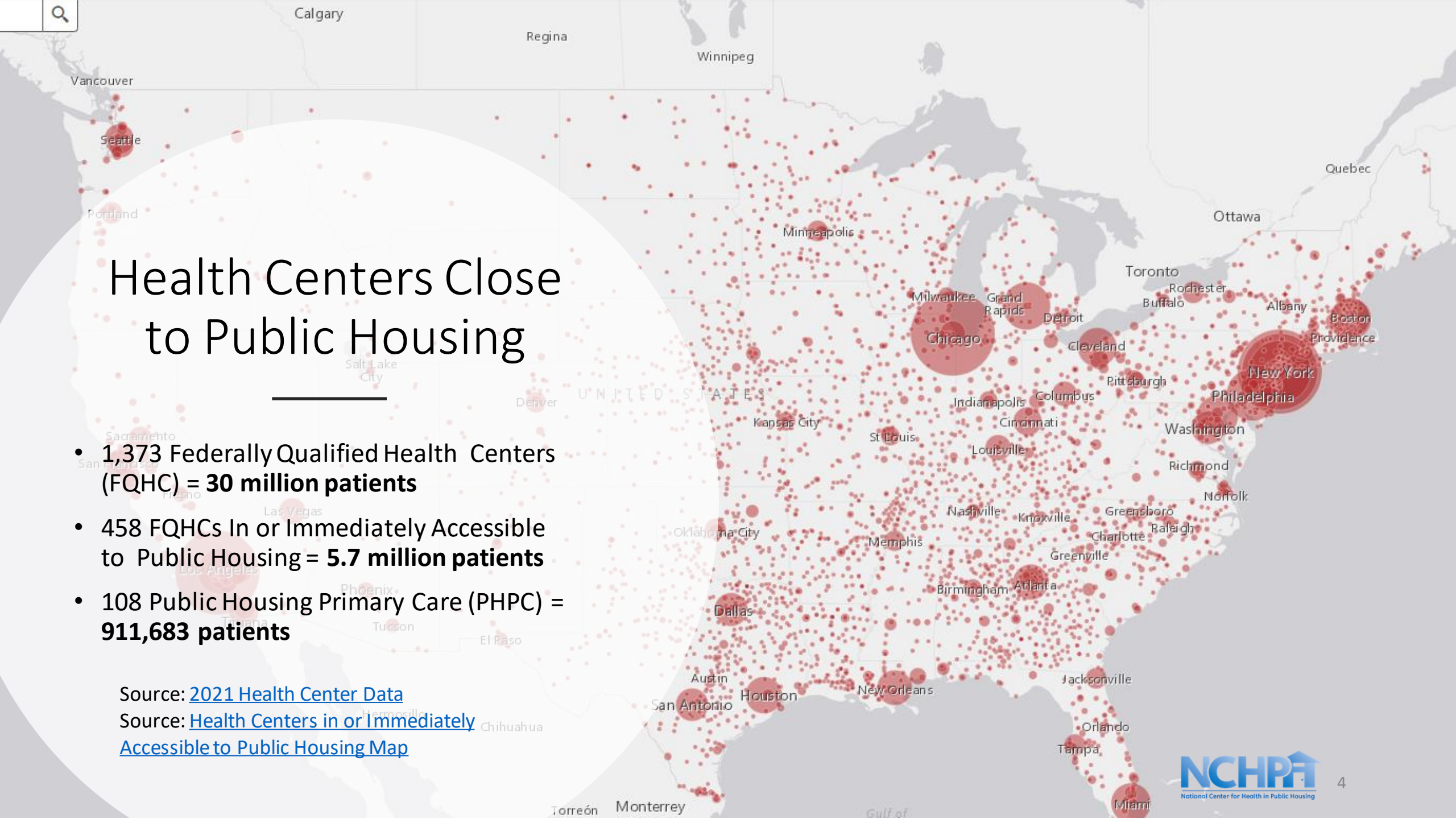
zoom



National Center for Health in Public Housing (NCHPH)

- The mission of the National Center for Health in Public Housing (NCHPH) is to strengthen the capacity of federally funded Public Housing Primary Care (PHPC) health centers and other health center grantees by providing training and a range of technical assistance.
- The National Center for Health in Public Housing (NCHPH) is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under grant number U30CS09734, a National Training and Technical Assistance Partner (NTTAP) for \$2,006,400 and is 100% financed by this grant. This information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by HRSA, HHS or the U.S. Government.





Health Centers Close to Public Housing

- 1,373 Federally Qualified Health Centers (FQHC) = **30 million patients**
- 458 FQHCs In or Immediately Accessible to Public Housing = **5.7 million patients**
- 108 Public Housing Primary Care (PHPC) = **911,683 patients**

Source: [2021 Health Center Data](#)

Source: [Health Centers in or Immediately Accessible to Public Housing Map](#)

Public Housing Demographics



1.5 Million
Residents



2 Persons
Per Household



38% Disabled



52% White



91% Low
Income



43% African-
American



26% Latinx



19% Elderly



36% Children



32% Female Headed
Households with
Children

- Source: 2022 HUD Resident Characteristics Report

Diabetes Snapshot in Public Housing Primary Care (PHPCs)

Population	Total Patients	# of Patients with Diagnosis	Percentage of Patients with Diabetes
All FQHCs	30,193,278	2,873,252	10%
Public Housing Primary Care	911,683	91,563	10%
In or Immediately Accessible to Public Housing	5,714,900	1,269,671	22%

Source: [National Health Center Program Uniform Data System \(UDS\) Awardee Data 2021](#)



Learning Objectives

- Define therapeutic inertia.
- Discuss tips to engage patients in their diabetes management.
- Review Self-Assessment Tools and Conversation Guides

Case Study: Fear of Injections

A female patient presents with an HbA1c of 9.5% and has received metformin plus SU for the last 2 years. During a discussion of therapeutic options, the patient expresses anxiety about using injectable therapy, but her target HbA1c goal has not been attained with any of the multiple oral regimens she has tried.

Question: How would you talk to your patient about this "fear" of injections?



Case study: Uncontrolled Diabetes

History: A 59-year-old male clerk comes for diabetes assessment. He walks 30 minutes per day and consumes a healthy vegetarian diet. He does not smoke or take alcohol. He is taking metformin 1000 mg twice a day.

- Examination: The height is 166 cm and the weight is 84 kg (BMI: 30.48). Examination indicates a blood pressure of 130/90 mm Hg. Heart rate is 79 /min. There are no other significant findings.
- Tests: FPG -145 mg/dl & PPG- 271 mg/dl

Question: Before addressing therapeutic inertia, what else would you like to know about his glycemic control?

Case study: Negative Beliefs

“My mother had diabetes, and it was no big deal to her for over 20 years. She rarely saw a doctor and never paid much attention to it, and it never really bothered her. But then her doctor finally convinced her to start insulin and—bam! Over the next year, she started having serious problems with her eyes, and then there were terrible pains in her legs. In fact, she eventually lost most of her left leg. No doubt about it, insulin was the culprit. And now you want me to start insulin? No way!”

Question: How would you address the patient's negative belief?



Therapeutic Inertia at a Glance

In diabetes care, therapeutic inertia means being slow to advance the treatment plan when A1C is too high. For example, waiting to intensify insulin therapy or add an additional medicine can be signs of therapeutic inertia.

The American Diabetes Association[®] (ADA) recommends advancing treatment if a patient doesn't reach their A1C goal within three to six months.

The Legacy Effect in Type 2 Diabetes: Achieving Early Glycemic Control Has Long-Term Benefits



- Lower A1C and glycemic burden¹
- Better maintenance of A1C control over time¹
- Better overall long-term health outcomes^{1,2,3}
- Lower risk of microvascular and macrovascular complications¹
- Economic benefits^{3,4}

1. Khunti K, et al. *Diab Care* 2013;36:3411–7; Del Prato S, et al. *Int J Clin Pract*. 2005;59:1345–1355

2. Laiteerapong N, Ham S, Goo Y, et al. *Diabetes Care* 2019;42:416-0426

3. Mehta R, et al. *Journal of Clinical & Translational Endocrinology*. 19(2020) 100215

4. Ali SN, Dang-Tan T, Valentine WJ, Hansen BB. *Advances in therapy*. 2020;37:869

Timing
is Important
When
Managing
Type 2
Diabetes



Achieving glycemic goals in <6–12 months results in long-term health and economic benefits.

Most Frequently Cited Contributors to Therapeutic Inertia in Type 2 Diabetes

Clinician-Related



- Time constraints and competing priorities
- Failing to set and use glycemic targets and goals to initiate, evaluate, or intensify treatment
- Concerns with treatment side effects (hypoglycemia)
- Underestimating patient self-management needs and abilities
- Underutilizing medical nutrition therapy (MNT) and diabetes self-management education and support (DSMES) services

Patient-Related



- Cost and access to medication
- Social determinants of health (SDOH)
- Limited understanding of the progressive nature of diabetes and need for treatment to change with time
- Poor access and low participation in diabetes education and MNT
- Poor communication/trust among physician, health system, and patient

System-Related



- Failing to identify therapeutic inertia
- Lack of transparency or accuracy in formulary options at point of care
- Not providing and promoting access to DSMES services
- No team approach to care

Adapted from: G Reach, V Pechtner, et al.; Clinical inertia and its impact on treatment intensification in people with type 2 diabetes mellitus; Diabetes & Metabolism Vol 43, Issue 6, Dec. 2017, 501-511
Addressing Therapeutic Inertia in 2020 and Beyond: A 3-Year Initiative of the American Diabetes Association, Clinical Diabetes July 31, 2020;

Action Plan

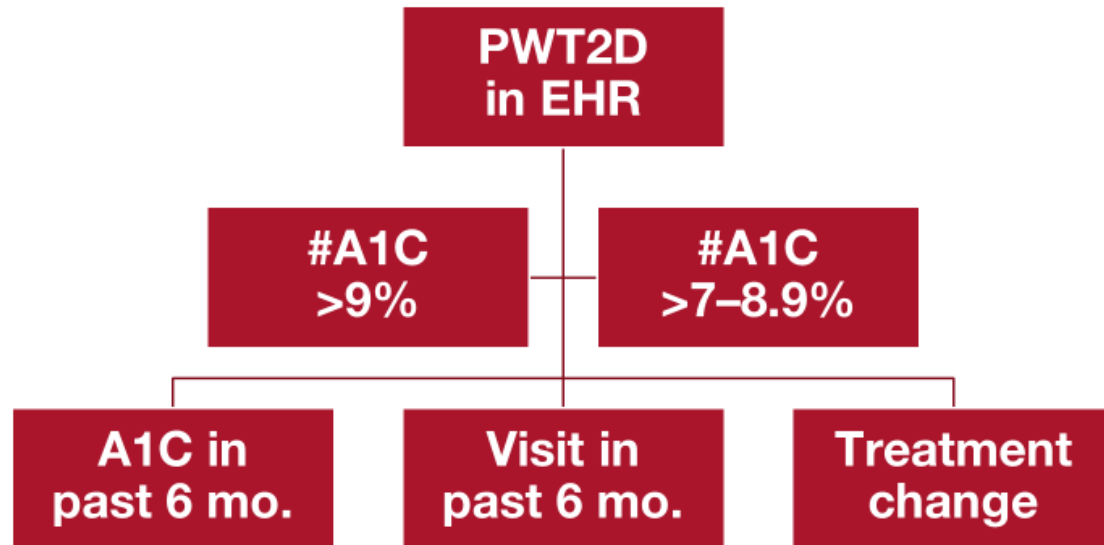


Action Item 1:

Identify high-risk patients with type 2 diabetes who are not at target goals



Identifying High-Risk Patients with Type 2 Diabetes (PWT2D) in Practice



Discussion: Identifying high-risk patients with type 2 diabetes

Does the practice have a system in place to identify individuals with A1C >9% and/or >7–8.9%?

- Have they had an A1C check in the past 6 months?
- Have they had a doctor's visit in the past 6 months?
- Has there been a change in treatment?

What do we need to initiate or improve in our process for identifying these high-risk patients with type 2 diabetes?



Action Item 2:

Identify and prioritize reasons for not achieving goals



Most Frequently Cited Contributors to Therapeutic Inertia in Type 2 Diabetes

Clinician-Related



- Time constraints and competing priorities
- Failing to set and use glycemic targets and goals to initiate, evaluate, or intensify treatment
- Concerns with treatment side effects (hypoglycemia)
- Underestimating patient self-management needs and abilities
- Underutilizing MNT and DSMES services

Patient-Related



- Cost and access to medication
- SDOH
- Limited understanding of the progressive nature of diabetes and need for treatment to change with time
- Poor access and low participation in diabetes education and MNT
- Poor communication/trust among physician, health system, and patient

System-Related



- Failing to identify therapeutic inertia
- Lack of transparency or accuracy in formulary options at point of care
- Not providing and promoting access to DSMES services
- No team approach to care

Adapted from: G Reach, V Pechtner, et al.; Clinical inertia and its impact on treatment intensification in people with type 2 diabetes mellitus; Diabetes & Metabolism Vol 43, Issue 6, Dec. 2017, 501-511
Addressing Therapeutic Inertia in 2020 and Beyond: A 3-Year Initiative of the American Diabetes Association, Clinical Diabetes July 31, 2020;

Discussion: Identifying Reasons for Therapeutic Inertia in Our Organization

- What are the major drivers of therapeutic inertia in our clinic or institution?
- Which drivers are within our control?
- Which drivers are easiest to address and have the greatest value?
- What are best practices for tackling therapeutic inertia?



Action Item 3:

Implement a team-based approach



Diabetes Team Members Provide Critical Treatment Foundation

DSMES Services

All people with diabetes should participate in DSMES services and necessary for diabetes self-care.

- Annually
- When not meeting treatment targets
- Complicating factors develop
- Transitions in life occur

MNT

All people with diabetes should be provided individualized MNT to achieve glycemic and overall health goals (provided by RDN).

Care Management

Coordination of care.

ADA Standards of Care 2022, 5.1, 5.9



Discussion

- **Do we have nurses, pharmacists, dietitians, and CDCESs in our organization to help manage diabetes?**
 - If so, how can we optimize their clinical responsibility and time to help manage diabetes?
 - If not, do we have resources to recruit? Work with other organizations to share resources? Contract with independent providers; collaborative agreements (pharmacist, RD, NP, CDCES)
- **Do we provide easy access to DSMES services and MNT for our patients and providers?**
 - Locate local CDCES

Go to: [/professional.diabetes.org/ERP](https://professional.diabetes.org/ERP)
OR [diabeteseducator.org/Education Program](https://diabeteseducator.org/Education_Program)
 - Leverage virtual/online DSMES programs

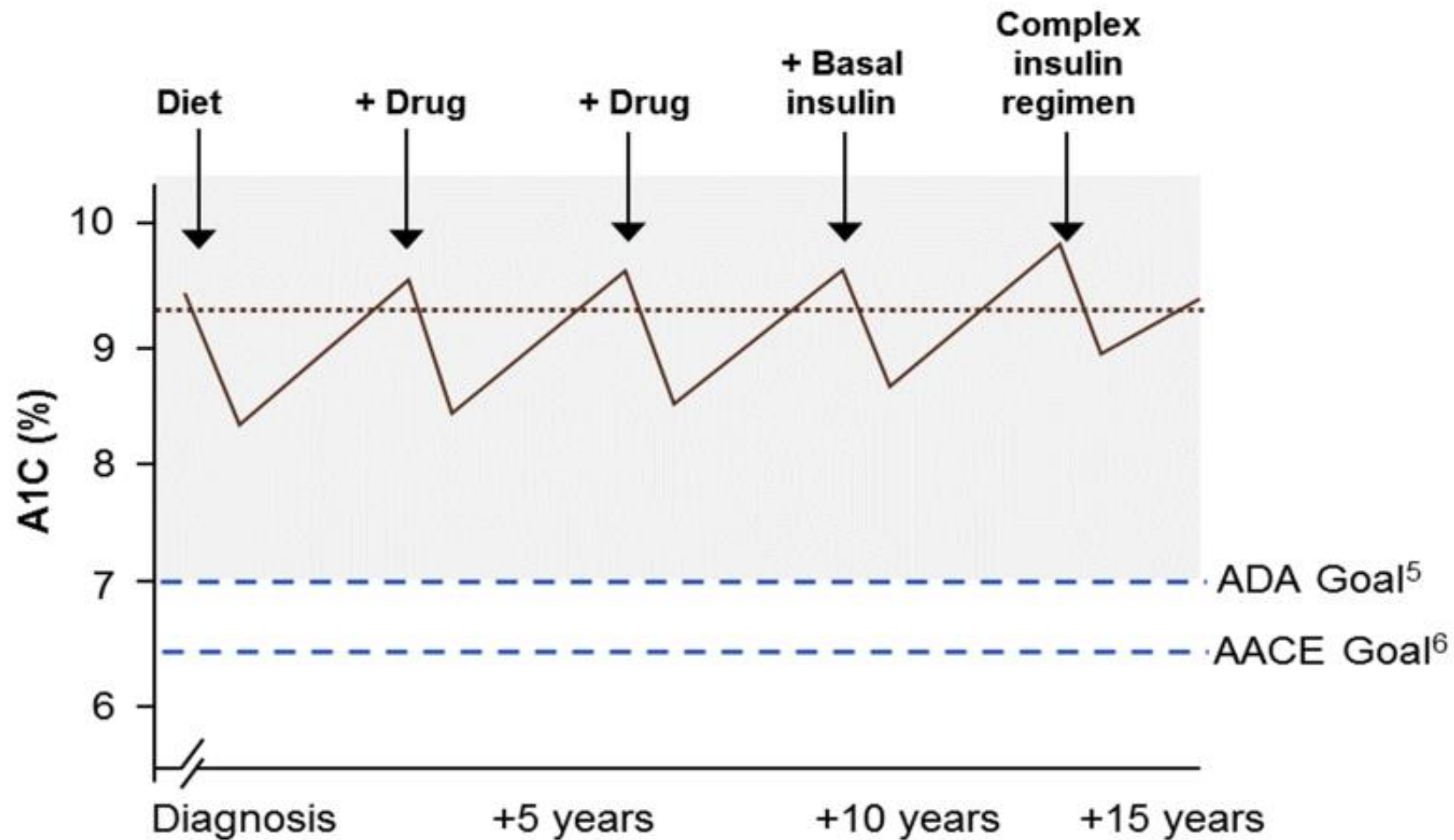


Action Item 4:

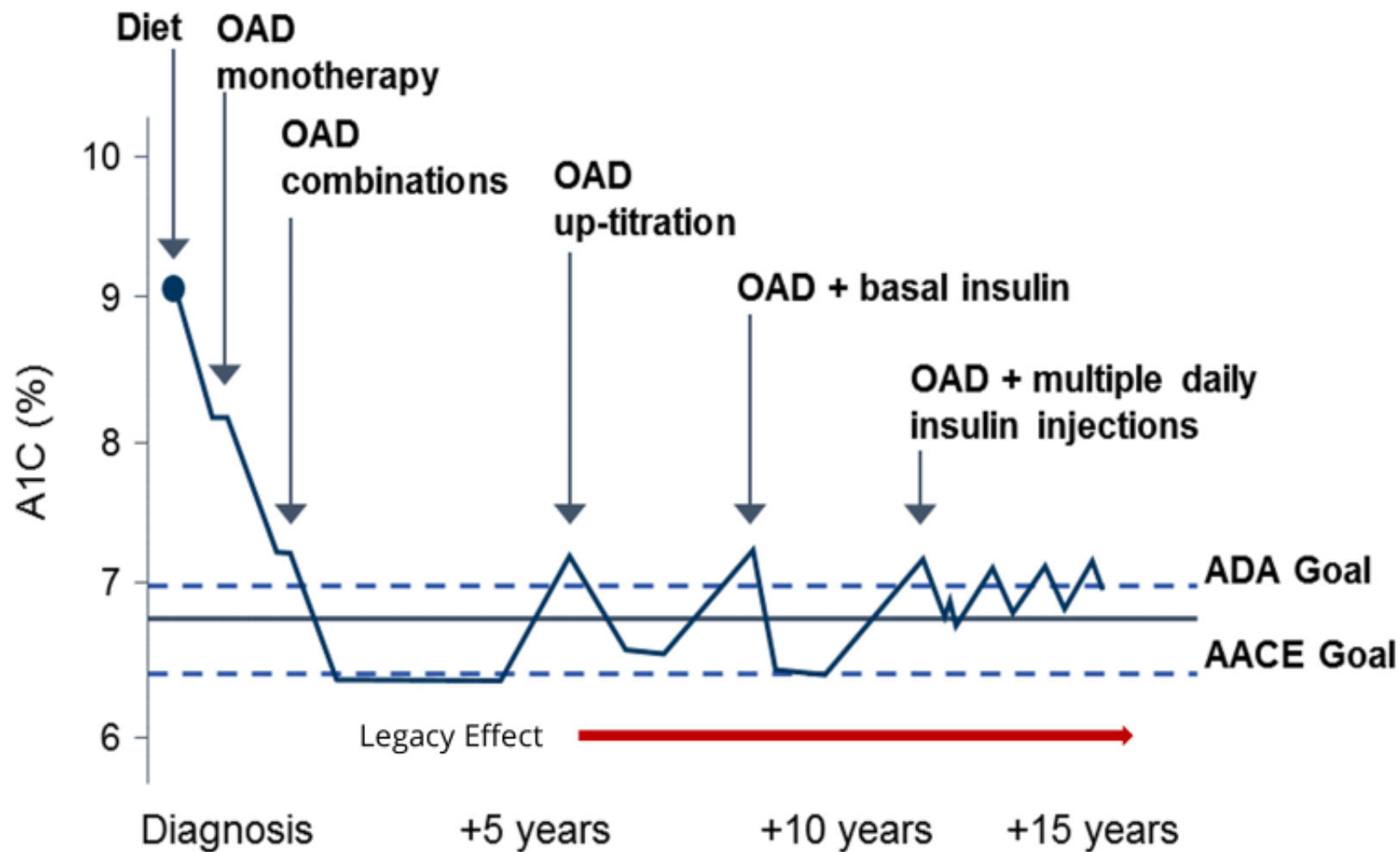
Use algorithms and/or protocols to intensify therapy efficiently and effectively



Historical “Treat to Failure” Approach

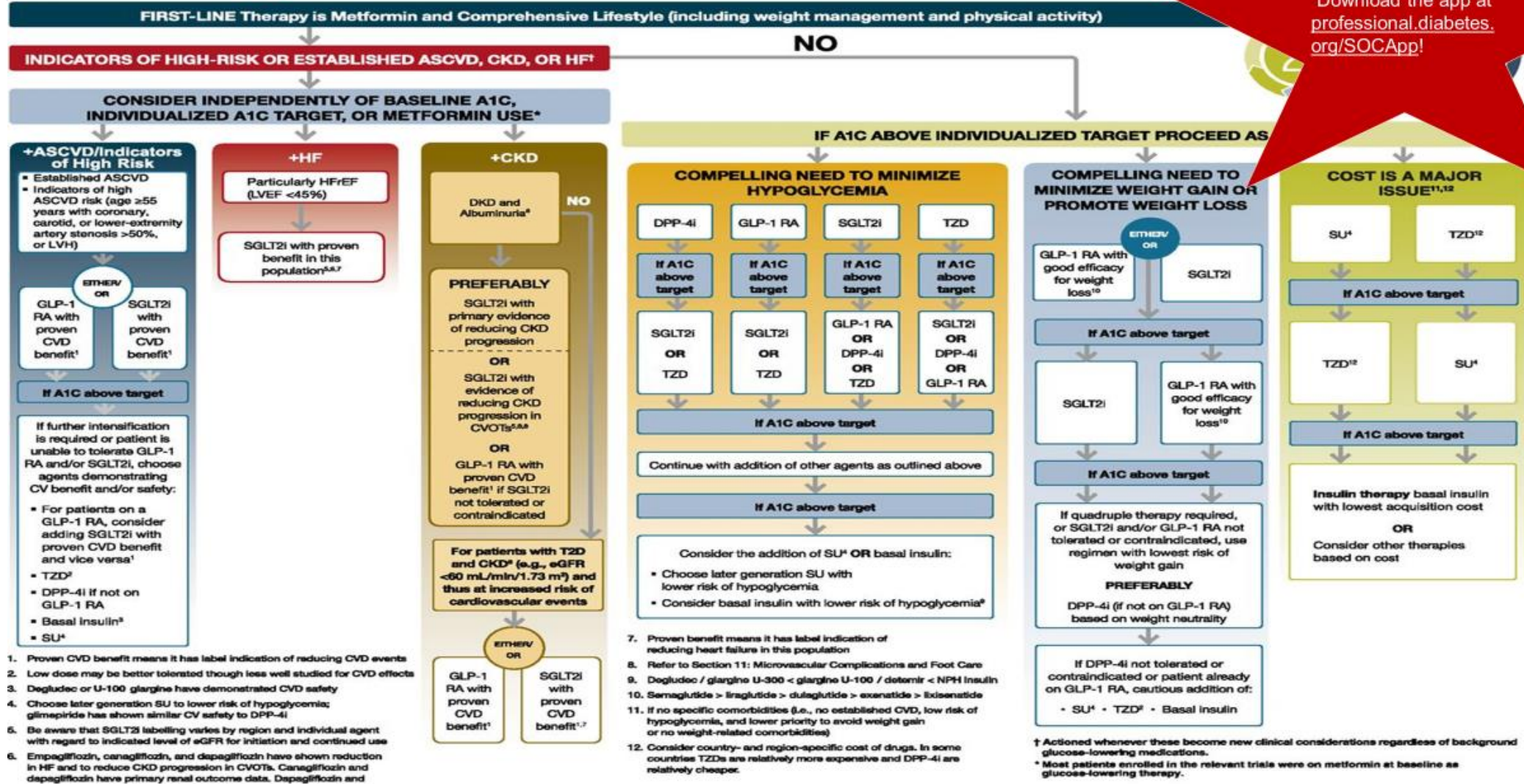


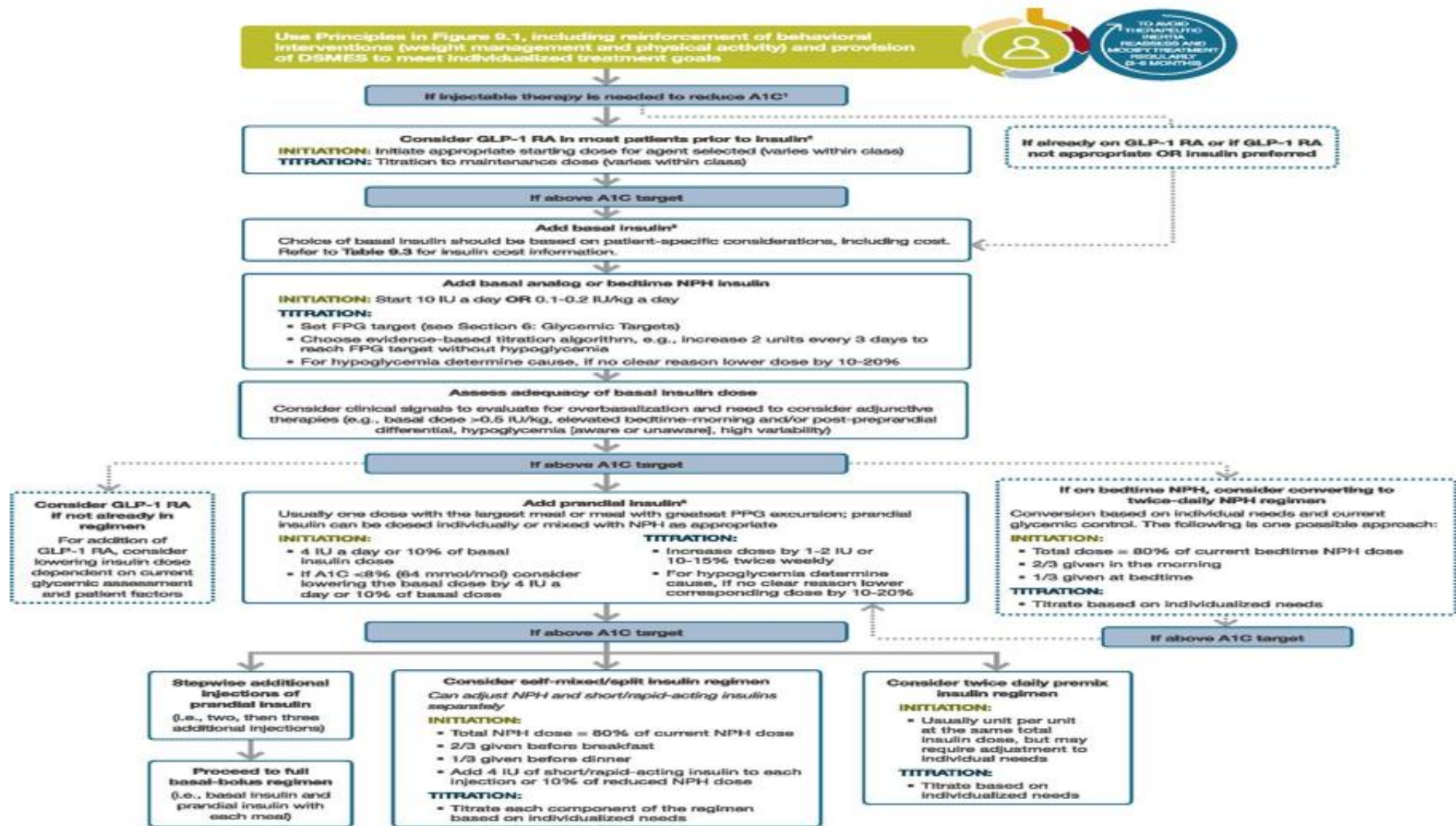
“Treat to Target” Approach



Lovshin JA, Zinman B. Nat Rev Endocrinol. 2013;9(11):635-636.
Fu AZ et al. Diabetes Obes Metab. 2011;13(8):765-769.
(UKPDS F/U) Holman, R. R., et al. (2008). NEJM, 359, 1577-1589.
doi:10.1056/NEJMoa0806470 (legacy effect)

Download the app at professional.diabetes.org/SOCApp!





1. Consider insulin as the first injectable if evidence of ongoing catabolism, symptoms of hyperglycemia are present, when A1C levels $\geq 10\%$ (86 mmol/mol) or blood glucose levels ≥ 300 mg/dL (16.7 mmol/L) are very high, or a diagnosis of type 1 diabetes is a possibility.
2. When selecting GLP-1 RA, consider: patient preference, A1C lowering, weight-lowering effect, or frequency of injection. If CVD, consider GLP-1 RA with proven CVD benefit. Oral or injectable GLP-1 RA are appropriate.
3. For patients on GLP-1 RA and basal insulin combination, consider use of a fixed-ratio combination product (iDagLira or iGlarLinx).
4. Consider switching from evening NPH to a basal analog if the patient develops hypoglycemia and/or frequently forgets to administer NPH in the evening and would be better managed with an AM dose of a long-acting basal insulin.
5. If adding prandial insulin to NPH, consider initiation of a self-mixed or premixed insulin regimen to decrease the number of injections required.

Action Item 5: **Leverage technology in practice**



Meta-Analysis: Most Effective Care Management Used Technology to Support Communication and Treatment

Examples of technology:

- Cloud-based diabetes management program
- Technology-based case management via telehealth glucose monitor
- Mobile diabetes management software supporting automated coaching and patient-provider portal

Example of technology in management:

- Continuous glucose monitor (CGM)
- Software to upload glucose meter data
- Technology to share blood glucose log and other health data in multiple places within practice

Powell et al. Diabetes Obes Metab. May 2021



Discussion

- Do we use these technologies in our institution?
- Can we incorporate those that are missing?
- Can we train our providers and patients on using CGMs to reach target glycemic goals faster?



Action Item 6:

Empower patients with type 2 diabetes to actively manage their diabetes





Therapeutic Inertia at a Glance

We know you have limited time with patients, so try to:

- Talk about A1C at every visit
- Cover one or two additional timely topics at each visit—like if they say they don't understand their treatment plan or can't afford their medicines
- Assess for hypoglycemia at every visit

Action Item 7:

Follow-up and manage time



OTI: Follow-Up Best Practices



See patients with type 2 diabetes as frequently as necessary to achieve glycemic targets between A1C measurements.

- Diabetes-only visits
- Team member visits



Schedule follow-up visits based on care needs of patient and/or glycemic levels:

- A1C of 9% or higher: Follow up every 6–8 weeks or sooner
- A1C of 7–8.9%: Follow up every 2–3 months
- A1C of <7% or at personalized goal: Follow up every 3–6 months



Use technology (telehealth, texts, apps, coaching programs) to increase frequency of communication and touchpoints to analyze patient blood glucose information, modify medication, inform, and support.

Best Practice Actions to Overcome Therapeutic Inertia



Clinician-Related

- Set clear glycemic goals and timelines with patients
- Empower team members to independently manage medications (algorithms or protocols)
- Use technologies/CGM to adjust therapy between A1C tests
- Develop and refer to a team of clinicians and community resources



Patient-Related

- Recognize progressive nature of type 2 diabetes and progressive need to change therapy
- Share in treatment decision making with clinicians—include SDOH
- Seek information and learn to be a self-manager—attend DSMES services and MNT
- Use technology to evaluate personal glycemic profiles



System-Related

- Identify patients with diabetes who are newly diagnosed or not meeting goals with an A1C >9%
- Support, empower, and use a team approach
- Provide access to DSMES services
- Address SDOH in community
- Use technologies in office practices



Doctor/Patient Conversation

Dr. Jose Leon
Chantel Moore



What can make your blood sugar **go up**?

- Too much food, like a meal or snack high in carbohydrates (starches), or eating more carbohydrates than usual
- Not enough physical activity
- Not taking enough insulin or other diabetes medications
- Side effects from other medications, such as steroids
- Getting sick—your body releases hormones to get better and those hormones can raise blood sugar levels
- Stress or pain, which can produce hormones that also raise blood sugar levels
- Menstrual periods, which also cause changes in hormone levels
- Dehydration

What can make your blood sugar **go down**?

- Not eating enough food. This could be eating a meal or snack with fewer carbohydrates than usual or missing a meal or snack
- Alcohol, especially on an empty stomach. Alcohol use can cause dangerously low blood sugar. Low blood sugar can also happen many hours after alcohol use
- Too much insulin or other diabetes medications
- Side effects from other medications
- More physical activity or exercise than usual—physical activity makes your body more sensitive to insulin and can lower blood sugar

How can you track your blood sugar?

There are two ways to keep track of your blood sugar levels:

- Using a blood sugar meter or continuous glucose monitor (CGM) to measure your blood sugar level at that moment
- Getting an A1C blood test at least twice a year to find out your average blood sugar for the past two to three months

What does an A1C/eAG result mean?

Usually, your A1C gives you general trend in your blood sugar that matches what you see with your day-to-day blood sugar checks. Sometimes, however, your A1C result may seem higher or lower than you expected. That may be because you aren't checking your blood sugar at times when it's very high or very low.

Use the chart below to understand how your A1C result translates to eAG. First find your A1C number on the left. Then read across to learn your average blood sugar for the past two to three months.

A1C	Average Blood Glucose (eAG)
6%	126 mg/dL
6.5%	140 mg/dL
7%	154 mg/dL
7.5%	169 mg/dL
8%	183 mg/dL
8.5%	197 mg/dL
9%	212 mg/dL
9.5%	226 mg/dL
10%	240 mg/dL
10.5%	255 mg/dL

The relationship between A1C and eAG is described by the formula $28.7 \times \text{A1C} - 46.7 = \text{eAG}$.

Communication with Patient with Diabetes Builds Trust and Promotes Medication Adherence

Patient's ability to maintain medication and treatment regimens are impacted by many factors not always explored¹

A disconnect between patients and clinicians with type 2 diabetes contributes to therapeutic inertia²

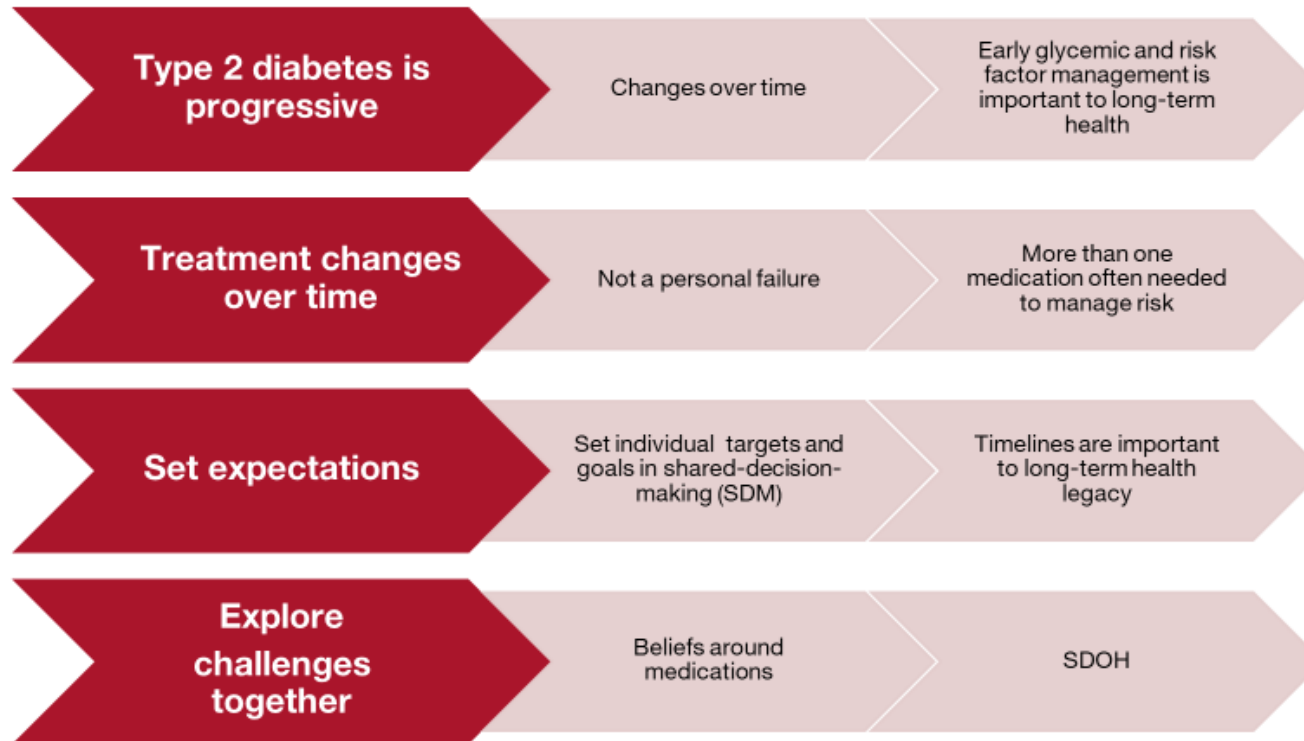
Patients are more frustrated with lack of treatment progress than their clinicians

Patients can do more than their clinicians believe they can



1. Edelman SV, Polonsky WH. Diabetes Care 2017;40:1425-1432
2. Edelman SV, Wood R, Roberts M, Shubrook JH. Clinical Diabetes 2020;38:222-229

Empower Through Critical Conversations with Patient with Type 2 Diabetes and Families



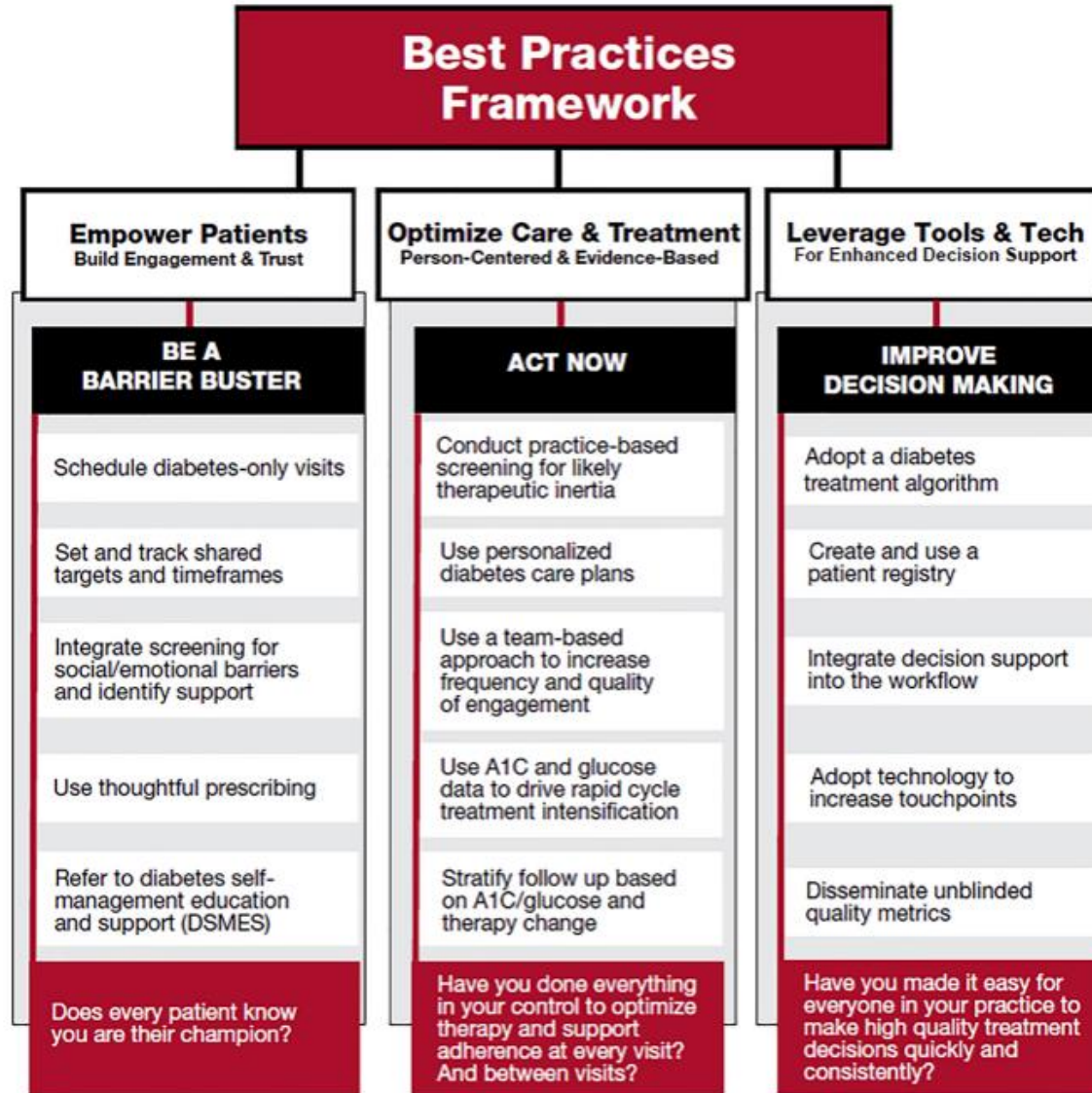


Figure 1:


The American Diabetes Association (ADA) overcoming therapeutic inertia best practices framework.

Discussion:

Overview for Tackling Therapeutic Inertia

American Diabetes Association
Connected for Life

Make a Difference: Achieve Glycemic Goals Early in Patients with Type 2 Diabetes




With These Best Practice Strategies

Intensify Treatment of Newly Diagnosed Patients and Patients with A1C Above Target

Early and appropriate therapy improves patients' chances of reaching A1C goals.

The Legacy Effect: Landmark clinical trials and research studies show that reaching A1C targets in the first year of treatment results in sustained, long-term health improvements even when control waned over time^{1,2}.



Achieve glycemic goals in < 4–12 months

Create Personalized Diabetes Care Plans



Assess patient's:


- Health literacy and numeracy
- Attitudes and beliefs regarding medication therapy
- Social determinants of health

Have ongoing conversations about the progressive nature of type 2 diabetes and management options.

- Diabetes changes over time and therefore their treatment plan will change too

Use shared decision making to determine individual glycemic targets and how to achieve glycemic targets within 3–6 months.

Implement a Team-Based Approach



Empower the appropriate team members to independently initiate and adjust medications.

- Use medication algorithms and protocols for therapeutic changes
- Effective team communication

Refer to:

- Diabetes self-management education and support specialist
- Registered dietitian
- Pharmacist
- Behavioral health specialist


- Trained community health worker
- Other diabetes care team members

Improve A1C by leveraging the multidisciplinary team

Reductions in A1C compared to usual care³


0.40% to -1.04%	0.30% to -1.20%	0.40% to -0.80%	0.20% to -0.40%
-----------------	-----------------	-----------------	-----------------

A recent systematic review and meta-analysis⁴ found that, compared to usual care, interventions where non-physician providers initiate and intensify treatment, with support from guidelines, had greater reductions in A1C.




Results may be less dependent on who intensifies therapy but rather how they identify, frequency of contact and delivery methods matter: heavy in-care management and patient education interventions resulting in statistically and clinically significant reduction in A1C used technology to communicate with patients⁵

Leverage Tools and Technology



Use technology for glycemic assessments to adjust therapy before/between 3-month A1C checks.

- Blood glucose monitoring data
- Continuous glucose monitoring data
- Patient self-tracking tools and support apps
- Use electronic health records to identify high risk patients and implement guidelines



Communicate frequently with patients.

- Patient-provider portals
- HIPAA-compliant texting modalities
- Telehealth visits where appropriate
- Schedule diabetes-only visits
- Use team members to increase touchpoints
- Utilize patient registries and chronic care coordinators

Learn more at TherapeuticInertia.Diabetes.org.

Facilitating discussions with your patients with diabetes

Moving forward

CREATE PERSONALIZED

Response Guide

1 How long have you had diabetes?

Action tips	Talking points
For any answer:	
<ul style="list-style-type: none"> Keep in mind that therapeutic inertia can happen at any time in your patient's journey. 	<ul style="list-style-type: none"> "Managing diabetes is a journey. Sometimes it may feel like one step forward and two steps back. That's okay. My job is to help you stay on track and meet your goals."

2 How do you think your diabetes treatment is going?

Action tips	Talking points
If answered Great—I'm totally on top of it:	
<ul style="list-style-type: none"> Celebrate their successes. Remind them that you can help if anything changes. 	<ul style="list-style-type: none"> "I'm glad to hear that! And you know I'm always here to support you and help you meet your goals."
If answered Okay—but it could be better or Not so good—something needs to change:	
<ul style="list-style-type: none"> Remind them that you can help. 	<ul style="list-style-type: none"> "Thanks for being honest about how you're feeling. Managing diabetes is hard, but I'm here to help. Let's take a closer look at what's going on."

diabetes.org | Overcoming Resistance to Therapy/Intentional in Type 2 Diabetes

4

BARRIERS & PROVIDE SUPPORT

SHARE DIFFICULTIES WITH MANAGING YOUR DIABETES - YOUR HEALTH CARE TEAM CAN HELP

Conversation Tips

- I take my diabetes seriously.
- Tell me the things that are getting in the way of managing your diabetes.
- I am on your side and will support you in whatever way you need to manage your diabetes well.

USE A TEAM BASED APPROACH

YOU CAN'T DO THIS ALONE

Conversation Tips

- Work with your care team, family and friends.
- Use your diabetes care support team + community resources to help you.
- Diabetes Self-Management Education and Support (DSMES) works.

THE NATURE OF TYPE 2 DIABETES IS TO CHANGE OVER TIME

Conversation Tips

- Diabetes is serious. The more seriously you take it the better you will do over the long-term.
- Your actions can make a big difference in how well you do.
- Meeting glycemic goals = fewer symptoms, better QOL & keeping complications at bay.
- Because your diabetes changes doesn't mean you have done something wrong.

SET SHARED A1C GOALS & TIMEFRAMES

YOUR TREATMENT PLAN WILL CHANGE OVER TIME

Conversation Tips

- Adding medications may be necessary.
- It is great that we have newer meds to help at each stage along your journey with diabetes.
- Adding new medications, including insulin, does NOT = failure.
- We will work together to find a treatment plan that works for you (thoughtful prescribing).

Patient centered
•Identify barriers

Shared Decision Making
•Present Options and Provide Choices


Motivational Interviewing
•Empower patients

Involve family and supports
Provide referrals and resources

Team-Based Decision-Making

Q&A Session





Complete our Post Evaluation Survey



Contact Us!

Robert Burns

Program Director
Bobburns@namgt.com

Jose Leon, M.D.

Manager of Clinical Quality
jose.leon@namgt.com

Kevin Lombardi, M.D., M.P.H.

Manager of Policy, Research, and
Health Promotion
Kevin.lombardi@namgt.com

Fide Pineda Sandoval, C.H.E.S.

Training & Technical Assistance
Manager
Fide@namgt.com

Chantel Moore, M.A.

Manager of Communications
Cmoore@namgt.com

Please contact our team for Training
and Technical Support
703-812-8822



Thank you!

