Section 9:



Pharmacologic Approaches to Glycemic Treatment

Ways to Address or Prevent Therapeutic Inertia for People With Type 1 or Type 2 Diabetes



EMPOWER PATIENTS

BE A BARRIER BUSTER

Schedule diabetes-only visits.

Set and track shared goals and time frames.

Integrate screening for social/emotional barriers and identify support.

Prescribed thoughtfully.

Refer to diabetes self-management education and support (DSMES).

Do your patients know you are their champion?



OPTIMIZE CARE AND TREATMENT

ACT NOW

Conduct practice-based screening for likely therapeutic inertia.

Make personalized diabetes care plans.

Implement a team-based approach to increase the frequency and quality of engagement.

Utilize A1C and glucose data to drive rapid-cycle treatment intensification.

Stratify follow-up based on A1C/glucose data and changes in therapy.

Have you done everything in your control to optimize therapy and support during, after, and in between visits?



LEVERAGE TOOLS AND TECHNOLOGY

IMPROVE DECISION-MAKING

Follow a diabetes treatment algorithm.

Create and use a patient registry.

Integrate decision support into the workflow.

Utilize technology to enhance communication with people with diabetes.

Disseminate unblinded quality metrics.

Have you enabled everyone in your practice to make high-quality treatment decisions quickly and consistently?

When to Use Injectable Therapy in Type 2 Diabetes

- Which therapy should I start first?
- Treatment with a glucagon-like peptide 1 (GLP-1) receptor agonist or a dual glucose-dependent insulinotropic polypeptide (GIP)/ GLP-1 receptor agonist is preferred before insulin therapy because of its ability to achieve both glycemic and weight management goals.
- Some GLP-1 receptor agonists also provide cardiovascular benefit.

- When should I start insulin first?
- If there is evidence of catabolism (e.g., unexpected weight loss)
- When A1C or blood glucose levels are very high (A1C >10% [>86 mmol/mol] or blood glucose ≥300 mg/dL [≥16.7 mmol/L])
- ? Can I use combination insulin and non insulin injectable therapy?
- Yes; combination therapy with insulin and a noninsulin injectable is recommended for greater glycemic effectiveness and beneficial effects on weight and hypoglycemia risk.
- If insulin is already being used, insulin dosing should be reassessed upon addition or dose escalation of a GLP-1 or dual GIP and GLP-1 receptor agonist.

- When would I use combination insulin and noninsulin injectable therapy?
- Consider combination insulin and GLP-1 or dual GIP/GLP-1 receptor agonist therapy when individualized goals are not met using either one separately.
- When should I modify a patient's injectable therapy?
- Intensify or deintensify therapy when an individual is not meeting treatment goals, including management of hyperglycemia and weight and avoidance of hypoglycemia.



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Consider technology (e.g., diagnostic CGM) to identify therapeutic gaps and

Consider DSMES referral to support self-efficacy in achievement of goals

Identify barriers to goals:

tailor therapy

Use of Glucose-Lowering Medications in the Management of Type 2 Diabetes

HEALTHY LIFESTYLE BEHAVIORS; DIABETES SELF-MANAGEMENT EDUCATION AND SUPPORT (DSMES); SOCIAL DETERMINANTS OF HEALTH (SDOH)



Goal: Achievement and Maintenance of Glycemic and Weight Management Goal Achievement and Maintenance of Consider metabolic weight management Consider regimen with high-to-very-high dual Set individualized weight management Intensive evidence-When choosing glucose-lowering therapies: based structured Weight Management Goals: GLP-1RA (not listed above), SGLT2i surgery glucose and weight efficacy Semaglutide, Tirzepatide Efficacy for weight loss Dulaglutide, Liraglutide DPP-4i, Metformin Intermediate: Very High: Neutral: High: Consider medication General lifestyle nutrition therapy/ for weight loss eating patterns/ physical activity advice: medical If A1C above target GLP-1 RA (not listed above), Metformin, Glycemic Management: Choose In general, higher efficacy approaches including COMBINATION therapy that provide adequate have greater likelihood of achieving approaches that provide the Combination Oral, Combination efficacy to achieve goals: **EFFICACY** to achieve and hypoglycemia in high-risk Efficacy for glucose lowering maintain treatment goals Metformin OR Agent(s) Injectable (GLP-1 RA/Insulin) Prioritize avoidance of SGLT2i, Sulfonylurea, TZD Semaglutide, Tirzepatide Dulaglutide (high dose), glycemic goals Intermediate: DPP-4i Insulin High: Goal: Cardiorenal Risk Reduction in High-Risk Individuals with Type 2 Diabetes (in addition to comprehensive CV risk management)* on SGLT2i, consider incorporating Use SGLT2i in people with an eGFR If A1C above target, for patients SGLT2is with primary evidence of GLP-1 RA with proven CVD benefit if SGLT2i not tolerated or continued until initiation of dialysis or transplantation a GLP-1 RA or vice versa reducing CKD progression once initiated should be 20 mL/min per 1.73 m²; - - OR - contraindicated PREFERABLY If additional cardiorenal risk reduction or glycemic lowering needed with proven HF benefit population SGLT2i[§] in this wniie definitions vary, most comprise ≥55 years of age with two or more additional For patients on a GLP-1 RA, consider adding SGLT2i +Indicators of high risk isk factors (including SGLT2is with proven CVD benefit +ASCVD/Indicators of High Risk with proven CVD benefit or vice versa If A1C above target EITHER /OR coronary artery disease. proven CVD benefit (e.g., MI, stroke, any GLP-1 RA# with or asymptomatic

for details; ^ Low-dose TZD may be better tolerated and similarly effective; § For SGLT2i, CV/renal outcomes of high CV risk. Moreover, a higher absolute risk reduction and thus lower numbers needed to treat are seen recommendation is warranted for people with CVD and a weaker recommendation for those with indicators demonstrate their efficacy in reducing composite MACE, CV death, all-cause mortality, MI, stroke, and renal HHF, and renal outcomes in individuals with T2D with established/high risk of CVD; # For GLP-1 RA, CVOTs trials demonstrate their efficacy in reducing the risk of composite MACE, CV death, all-cause mortality, MI, at higher levels of baseline risk and should be factored into the shared decision-making process. See text RA or SGLT2i with proven benefit should be independent of background use of metformin; A strong st In people with HF, CKD, established CVD, or multiple risk factors for CVD, the decision to use a GLPendpoints in individuals with T2D with established/high risk of CVD.

chronic kidney disease; CV, cardiovascular (Sease; CVOT, cardiovascular outcomes trial; DPP-4i, dipeptidase 4 inhibitor; eGFR, estimated glomerular filtration rate; GLP-1 RA, glucagon-like peptide 1 receptor agonist; HF, heart failure; HFpEF, heart failure with preserved ejection fraction; HHF, hospitalization for heart failure; MACE, major adverse cardiovascular events; MI, myocardial infarction; SDOH, social determinants of health; SGLT2i, sodium-glucose cotransporter 2 inhibitor; T2D, type 2 diabetes; T2D, thiazolidinedione. Adapted from Davies MJ, D'Alessio DA, Fradkin J, et al. Management of hyperglycemia in type 2 diabetes, 2018: a consensus report by the American Diabetes Association (%CDA) Share Beschall British Br ACEI, angiotensin-converting enzyme inhibitor; ACR, albumin-to-creatinine ratio; ARB, angiotensin receptor blocker, ASCVD, atherosclerotic cardiovascular disease; CGM, continuous glucose monitoring; CKD

- Provide or refer patients for education about injection technique and timing and problem-solving for issues related to insulin therapy (e.g., hypoglycemia, missed or incorrect doses, and dose adjustments).
- Ensure that individuals have all supplies necessary for injections (e.g., pen needles for insulin pens or appropriate syringes for insulin dose size or concentration) and glucose monitoring.
- Evaluate individuals with type 2 diabetes to determine whether they are candidates for GLP-1 or dual GIP/GLP-1 receptor agonist therapy.
- Evaluate all people on insulin therapy to determine whether they could benefit from continuous glucose monitoring.
- Ensure that people on insulin therapy have the education and supplies needed to prevent and treat hypoglycemia, including glucagon, glucose monitoring supplies, and appropriate sources of carbohydrates to treat low glucose levels.
- Schedule timely and routine follow-up visits to reassess patients and adjust care plans to avoid therapeutic inertia.



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