## 2025 ADA: Use of Glucose-lowering medications in the management **of T2D** (*Figure 9.3; S190*)



\* In people with HF, CKD, established CVD, or multiple risk factors for CVD, the decision to use a GLP-1 RA or SGLT2i with proven benefit should be made irrespective of background use of metformin or A1C. † ASCVD: Defined differently across CVOTs but all included individuals with established CVD (e.g., MI, stroke, and arterial revascularization procedure) and variably included conditions such as transient ischemic attack, unstable angina, amputation and symptomatic or asymptomatic or asymptomatic coronary artery disease. Indicators of high risk: While definitions vary, most comprise >55 years of age with two or more additional risk factors (including obesity, hypertension, smoking, dyslipidemia, or albuminuria).

\* A strong recommendation is warranted for people with CVD and a weaker recommendation for those with indicators of high-risk CVD. Moreover, a higher absolute risk reduction and thus lower numbers needed to treat are seen at higher levels of baseline risk and should be factored into the shared decision-making process. See text for details. # For GLP-1 RAs, CVOTs demonstrate their efficacy in reducing composite MACE, CV death, all-cause mortality, MI, stroke, and kidney end points in individuals with T2D with established or high risk of CVD. One kidney end points in individuals with CKD and T2D. ‡ For SGLT2is, CV and kidney outcomes trials demonstrate their efficacy in reducing the risks of composite MACE, CV death, all-cause mortality, MI, HHF, and kidney outcomes in individuals with T2D and established or high risk of CVD. ^ Low-dose pioglitazone may be better tolerated and similarly effective as higher doses

ACEi, angiotensin converting enzyme inhibitor; ACR, albumin-to-creatinine ratio; ARB, angiotensin receptor blocker; ASCVD, atherosclerotic cardiovascular; CVD, cardiovascular disease; CVOT, cardiovascular disease; CVD, atherosclerotic cardiovascular; CVD, cardiovascular; CVD, cardiovascular disease; CVD, cardiovascular disease; CV, cardiovascular; CVD, cardiovascular disease; CVOT, cardiovascular disease; CVD, cardiovascular; CVD, cardiovascular disease; CVD, cardiovascular disease; CVD, cardiovascular; CVD, cardiovascular disease; CVD, cardiovascular disease; CVD, cardiovascular disease; C management education and support; eGFR, estimated glomerular filtration rate; GLP-1 RA, glucagon-like peptide 1 receptor agonist; HF, heart failure; MACE, major adverse cardiovascular events; MASH, metabolic dysfunction-associated steatohepatitis; MASLD, metabolic dysfunction-associated steatoticliver disease; MI, myocardial infarction; SDOH, social determinants of health; SGLT2i, sodium-glucose cotransporter 2 inhibitor; T2D, type 2 diabetes. Diabetes Care 2025;48(Suppl. 1):S181–S206 | doi: https://doi.org/10.2337/dc25-S009; Adapted from Davies et al Diabetes Care 2022;45:2753–2786

## Health lifestyle behaviors; Diabetes Self-Management Education and Support (DSMES); Social Determinants of Hea

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alth (SDOH)		To avoid therapeutic inertia, reassess and modify treatment regularly (3-6 months)
ent and Maintenance of Weight and Glycemic Goals		
ement	+Achievement and maintenance of glycemic goals	
ht loss	Metformin or other agent (including combination therapy) that provides adequate EFFICACY to	
e, tirzepatide	achieve and maintain glycemic treatment goals Prioritize avoidance of hypoglycemia in high-risk individuals	
raglutide		
Sted above), SGLTZT		Efficacy for glucose lowering
n, DPP-4i	<b>Very h</b> Comb	<b>high:</b> Dulaglutide (high dose), semaglutide, tirzepatide, insulin ination oral, combination injectable (GLP-1 RA and insulin)
	High	: GLP-1 RA (not listed above), metformin, pioglitazone, SGLT2i, sulfonylurea
		Intermediate: DPP-4i
al or significant hypoglycemia or hyperglycemia or barriers to care are identified		
self-efficacy in achiev diagnostic or persona	ement of ti I CGM) to i	reatment goals dentify therapeutic gaps and tailor therapy



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