

Stepwise Treatment of Type 2 Diabetes

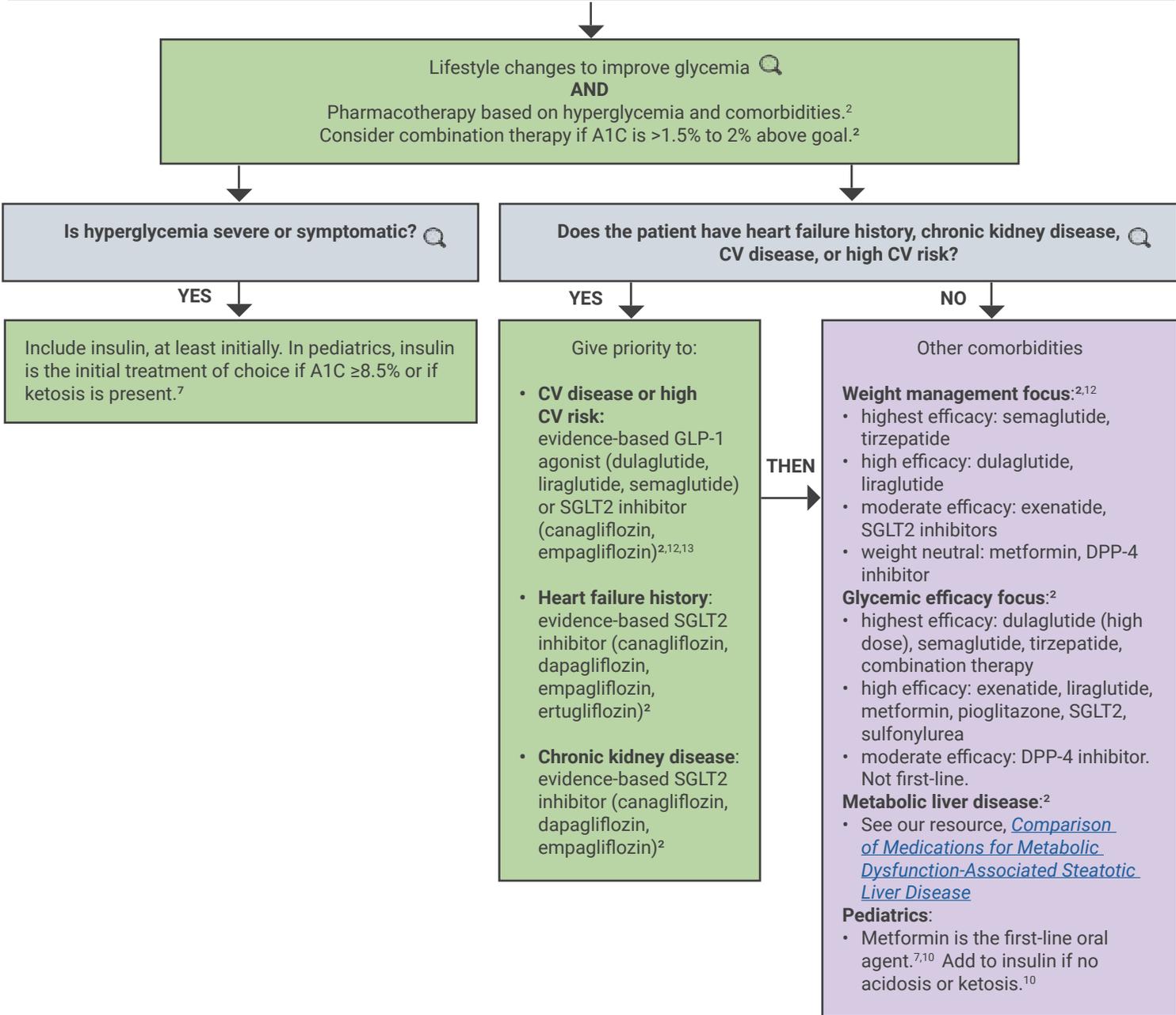
Modified February 2026

Also see our resources, [Drugs for Type 2 Diabetes](#) and [Diabetes Medications: Cardiovascular and Kidney impact](#).

--Information pertains to **ADULTS** unless otherwise specified.--

Interactive Note: Additional information is available when hovering over text containing the magnify icon. Best viewed in Adobe Acrobat.

STEP 1 **Diagnosis of type 2 diabetes in nonpregnant patients** (in adults, A1C \geq 6.5% is diagnostic; A1C 5.7% to 6.4% indicates [prediabetes](#).^{1,5}):



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STEP 2

Assess and adjust treatment every three to six months (three months in pediatrics) based on efficacy, side effects, and new comorbidities.^{2,10}

- Goal: A1C (A1C \leq 7% for many adult patients; A1C \leq 6.5% for pediatrics).^{4,6,10} Individualize.

A **higher goal** may be appropriate for some patients.⁴ 

A **lower goal**, if it can be achieved without adverse effects (e.g., problematic hypoglycemia), may be appropriate for some patients.⁴ 

- » A tool for individualizing your patient's A1C target is available from Diabetes Canada at <https://www.diabetes.ca/managing-my-diabetes/tools--resources/individualizing-your-patient%E2%80%99s-a1c-target>.

De-escalate medications as appropriate.^{2,4}



- Give preference to deprescribing agents that cause hypoglycemia or that do not improve outcomes.²
- Attempt to transition youth to metformin over two to six weeks (once labs have stabilized) by decreasing insulin each time metformin is increased.⁷
- Discontinue DPP-4 inhibitors if a GLP-1 agonist or intensive insulin regimen is started.⁴ 
- Discontinue sulfonylurea or meglitinide when intensive insulin regimen is started.⁴ Also assess need for dose reduction as the patient ages and circumstances change. 

Add medications as appropriate.



For help choosing, see options in Step 1 above, and our chart, [Drugs for Type 2 Diabetes](#) for med details.

- If escalating treatment in **pediatrics**:
 - » Add-ons to metformin and/or insulin in youth \geq 10 years of age: canagliflozin, empagliflozin, liraglutide, or once-weekly exenatide.⁸⁻¹¹
 - » Pioglitazone could be considered if metformin is not tolerated and cardiac function is normal, given that youth tend to have severe insulin resistance. However, pioglitazone is **not preferred** due to weight gain (especially with insulin).⁷

Abbreviations: CV = cardiovascular; GLP-1 = glucagon-like peptide-1; SGLT2 = sodium-glucose co-transporter 2; DPP-4 = dipeptidyl peptidase-4

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