

KDIGO(KIDNEY DISEASE IMPROVING GLOBAL OUTCOMES) 2024

HOLISTIC APPROACH FOR IMPROVING OUTCOMES IN PATIENTS WITH DIABETES AND CKD



CHALLENGES IN DIABETES MANAGEMENT AND CKD



CKD in diabetes is underdiagnosed and therefore may not be appropriately addressed¹

At least 67% of patients with diabetes and CKD by laboratory criteria failed to have appropriate CKD or DKD documentation in the electronic medical record.



Patients with diabetes and CKD

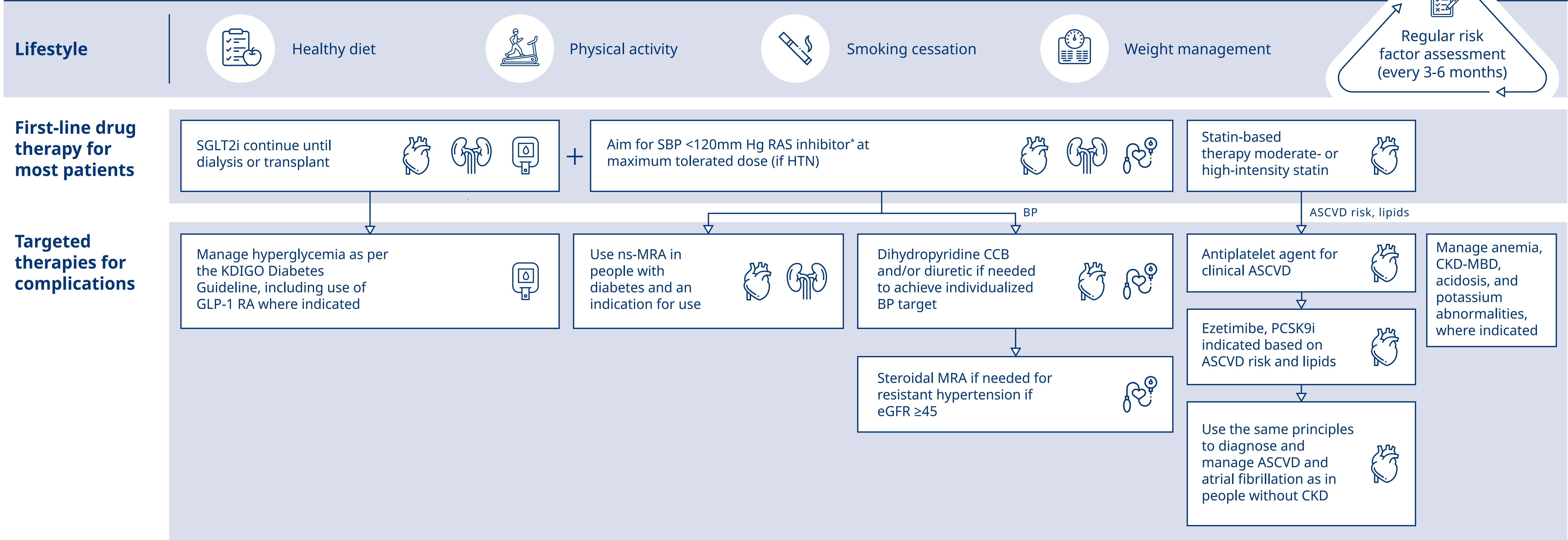
- Are in high-risk socioeconomic groups²
- Often have an insulin treatment prevalence>50%,^{2,3}
- Have frequent hypo- and hyper- glycemia that may not be captured by traditional methods (finger stick blood glucose and A1c)^{4,5}



Traditional monitoring of glucose control by A1C may be confounded by⁵

- Increased red blood cell turnover
- Acidosis
- Iron supplements

TREATMENT GUIDELINES FOR MANAGEMENT OF CKD⁶



*ACEi or ARB (at maximal tolerated doses) should be first-line therapy HTN when albuminuria is present. Otherwise, CCB or diuretic can also be considered; all 3 classes are often needed to attain BP targets.

A1C, glycated hemoglobin; ACEi, Angiotensin-converting enzyme inhibitors; ARB, angiotensin II receptor blocker; BP, blood pressure; ACR, albumin-to-creatinine ratio; ASCVD, atherosclerotic cardiovascular disease; CCB, calcium channel blocker; CKD, chronic kidney disease; CKD-MBD, chronic kidney disease-mineral and bone disorder; CVD, cardiovascular disease; DKD, diabetes kidney disease; GLP-1 RA, GLP-1 receptor agonist; HTN, hypertension; ns-MRA, nonsteroidal mineralocorticoid receptor antagonist; PCSK9i, proprotein convertase subtilisin/kexin type 9 inhibitor; RAS, renin-angiotensin system; SBP, systolic blood pressure; SGLT2i, sodium-glucose cotransporter-2 inhibitor; T1D, type 1 diabetes; T2D, type 2 diabetes

1. Clinical Kidney Journal, 2022, vol. 15, no. 10, 1865–1871; 2. Clemens K, et al KIDNEY360 2: 653–665, 2021; 3. Rhee et al. BMC Nephrology (2015) 16:204; 4. Qayyum, et al Blood Purif 2016;41:18–24; 5. Galindo, R et al, Endocrine Reviews, October 2020, 41(5):756–774; 6. Kidney Int. 2024 Apr;105(4S):S117-S314. doi: 10.1016/j.kint.2023.10.018.

