

# EMPA

Empagliflozin 10-25

## Kidney From Victim to Ally



*Pull  
Sugar  
away*



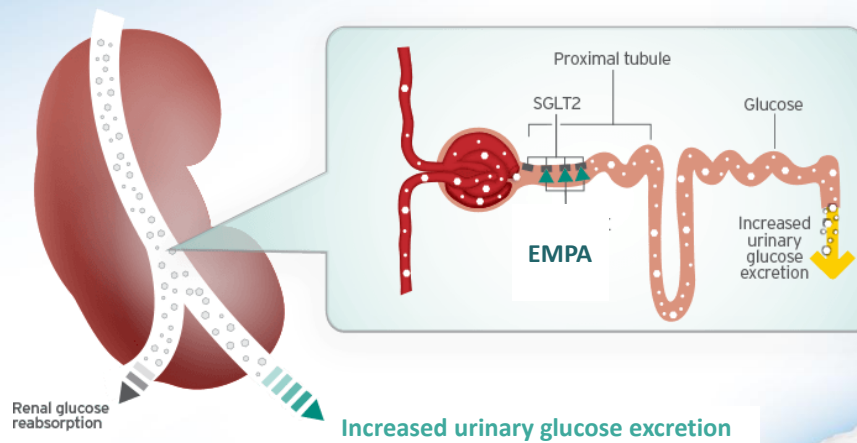


The advertisement features a central image of two boxes of EMPA tablets. The box on the left is labeled "EMPA 10" and "Empagliflozin 10 mg, 30 F.c Tablets". The box on the right is labeled "EMPA 25" and "Empagliflozin 25 mg, 30 F.c Tablets". Above the boxes is a yellow apple. A blue circular arrow graphic surrounds the apple and boxes. To the right of the boxes, a blue liquid splash is shown falling from the top, with a trail of white powder or sugar falling from the bottom of the splash. The text "Any Relationship??" is written in a bold, dark blue font. Below it, the phrase "Pull Sugar away" is written in a stylized, cursive font, with "Sugar" in a larger, more prominent script.

**Any Relationship??**

*Pull  
Sugar  
away*

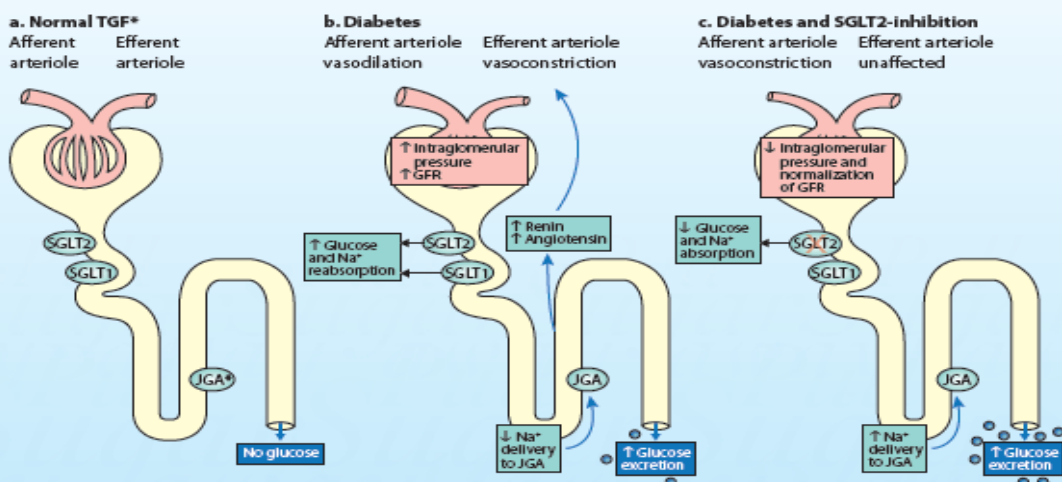
## Mechanism of action



*Pull  
Sugar  
away*

## EMPA

### Counteracts the Hyperfiltration State in Diabetic Kidney





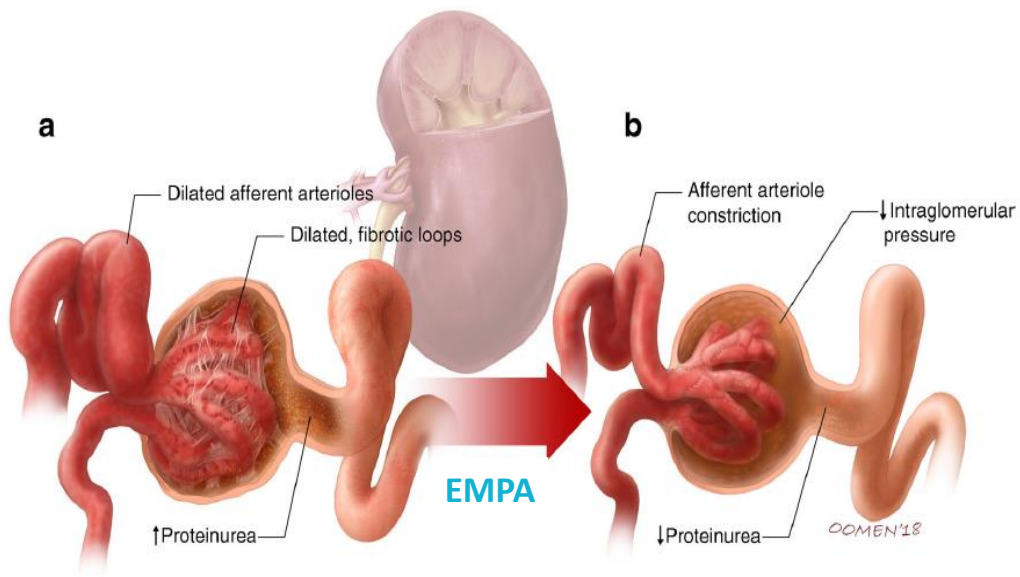
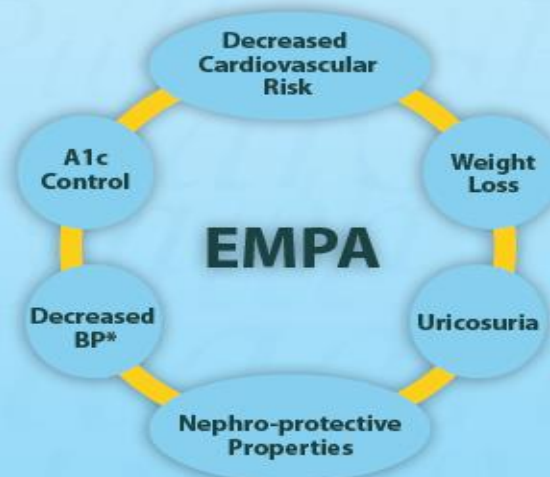


Fig. 3 Diabetes is associated with afferent arteriolar dilatation, which leads to high intraglomerular pressure and hyperfiltration. Ongoing barotrauma to the glomerulus may lead to proteinuria (a). SGLT2 inhibitors, through tubuloglomerular feedback, promote afferent arteriolar

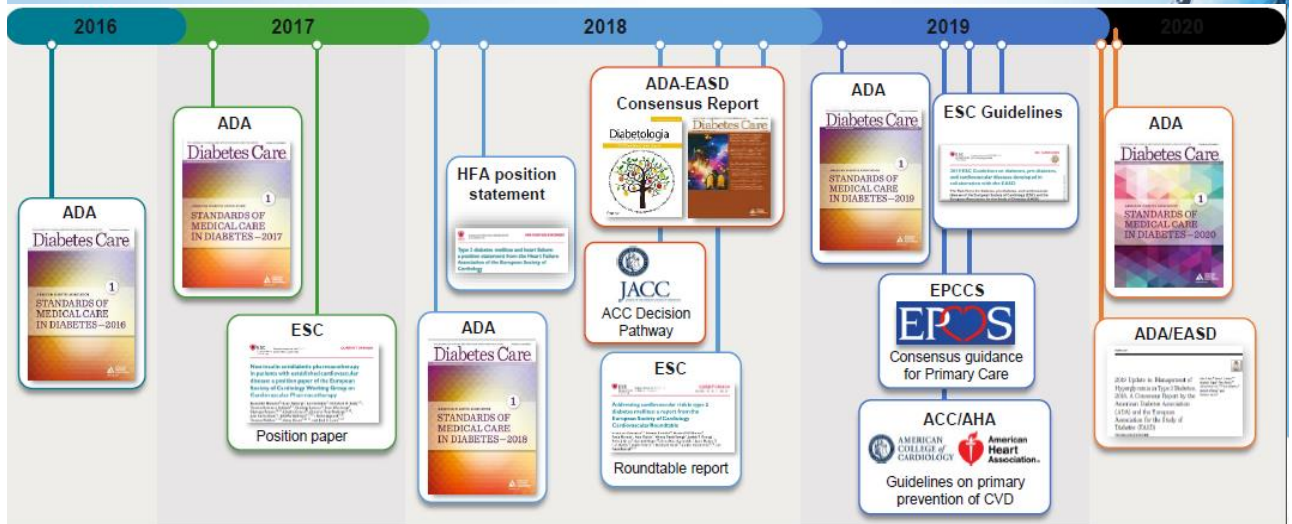
vasoconstriction. This in turn serves as a mechanism to reduce intraglomerular hypertension and provide nephroprotection (b). © G. Oomen 2018. This figure is available as part of a [downloadable slideset](#)

## EMPA Pleiotropic Effects<sup>2</sup>



\*T2DM: Type 2 Diabetes Mellitus, \*SGLT2: Sodium Glucose Cotransporter \*BP: Blood Pressure  
\*JGA: Juxtaglomerular Apparatus, \*TGF: Tubuloglomerular Feedback

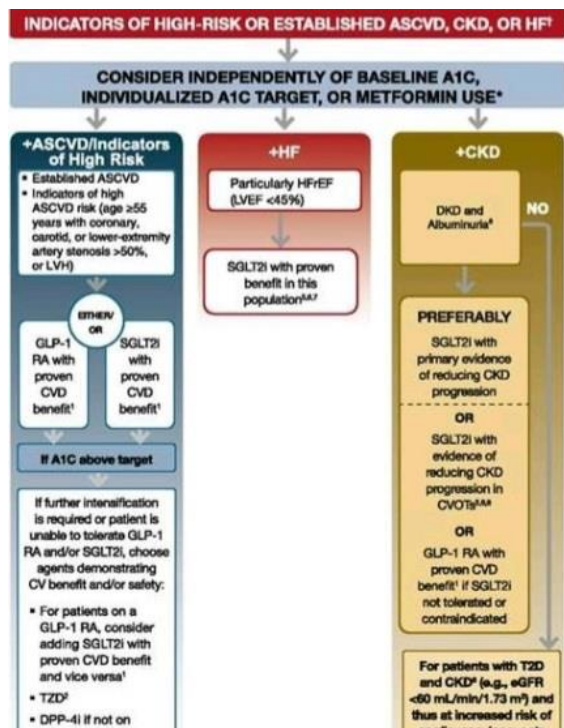
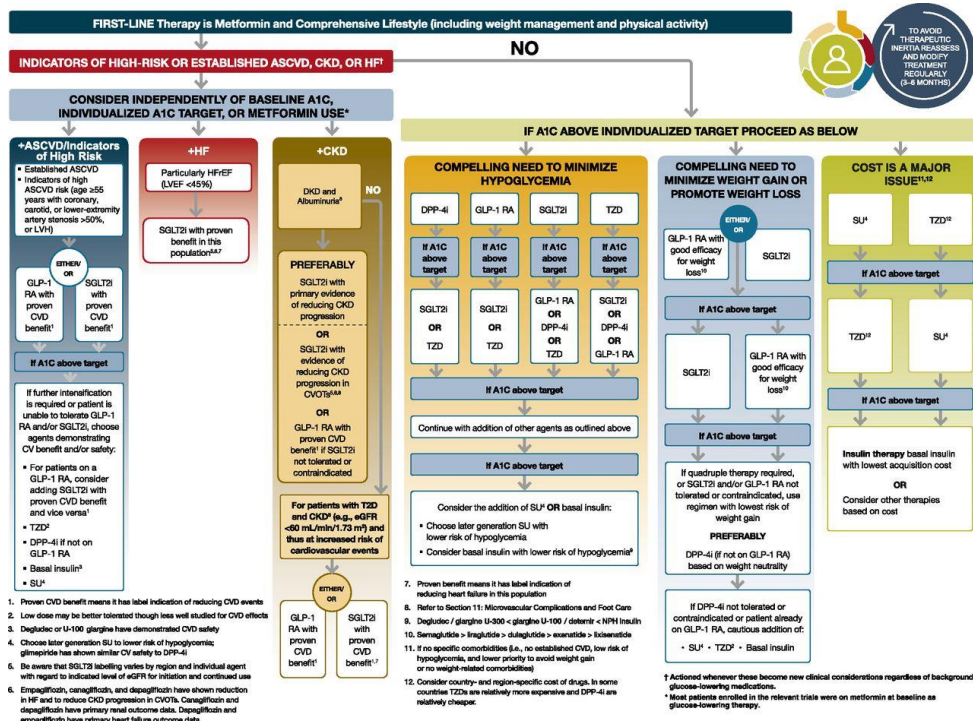
## International Guidelines, SGLT2i ERA

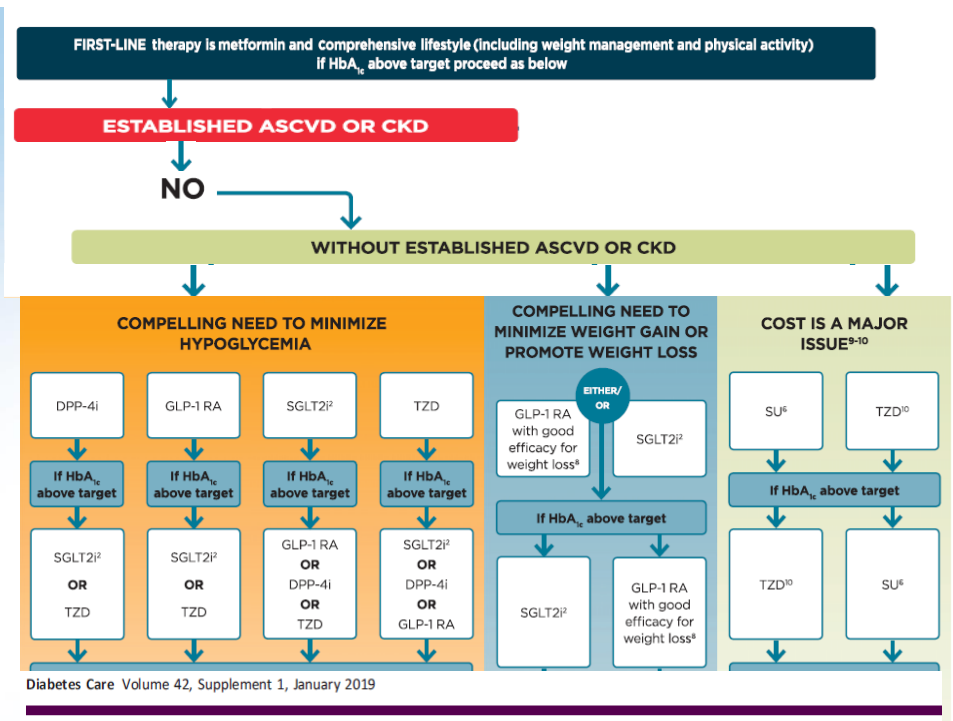


ADA, American Diabetes Association; ACC, American college of cardiology; AHA, American heart association; CVD, cardiovascular disease; CVOT, cardiovascular outcomes trial; EASD, European Association for the Study of Diabetes; EPCCS, European Primary Care Cardiovascular Society; ESC, European Society of Cardiology; HFA, heart failure association; JACC, Journal of the American College of Cardiology









## EMPA in Nephro Guidelines



*Pull  
Sugar  
away*

# KDIGO Clinical Practice Guideline On Diabetes Management In CKD 2021











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Sugar  
away*

## Comprehensive Diabetes and CKD management

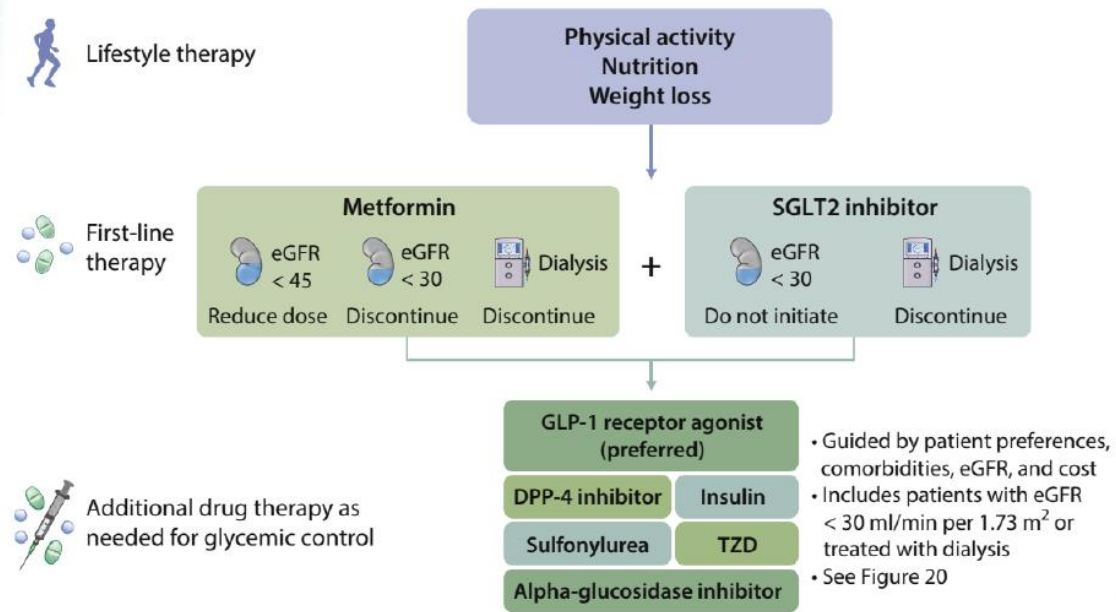
- Patients with diabetes and CKD should be treated with a comprehensive strategy to reduce risks of kidney disease progression and cardiovascular disease.

### Diabetes with CKD: cardio-kidney treatment

	Glycemic control including SGLT2 inhibitors
	RAAS blockade
	Blood pressure control
	Lipid management
	Lifestyle/physical activity
	Smoking cessation
	Nutrition
	Aspirin for prevalent cardiovascular disease



## Treatment Algorithm for Selecting Antihyperglycemic Drugs for Patients with T2D and CKD



## Anti-hyperglycemic Therapies in Patients with Diabetes and CKD

- Glycemic management for patients with Type 2 diabetes and CKD should include lifestyle therapy, base drug therapy with metformin and a sodium-glucose cotransporter-2 (SGLT-2) inhibitor
- Most patients with Type 2 diabetes, CKD, and **eGFR ≥30 ml/min/1.73 m<sup>2</sup>** would benefit from treatment with both metformin and an SGLT2i.

*Pull  
Sugar  
away*

## EMPA.. Varied Choices for your Patients



*Pull  
Sugar  
away*

## EMPA.. Varied Choices for your Patients



**EMPA  
PLUS XR**

Empagliflozin **5, 10, 12.5, 25** mg  
Metformin XR **1000** mg

*Pull  
Sugar  
away*

## EMPA.. Varied Choices for your Patients



**EMPALINA**  
Empagliflozin / Linagliptin 10/5 25/5

*Pull  
Sugar  
away*





