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NEPHROPROTECTIVE TREATMENT WITH DAPAGLIFLOZIN IN PATIENTS WITH DIABETIC KIDNEY DISEASE

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Relevance and purpose of the study

- Albuminuria in patients with diabetes presents a higher risk for adverse renal and cardiovascular (CV) outcomes.
- Sodium glucose co-transporter 2 (SGLT2) inhibitors demonstrate improved albuminuria and reduces the risk of end-stage renal disease in patients with chronic kidney disease.
- The study aim was the impact of the SGLT2 inhibitor dapagliflozin on urine albumin-to-creatinine ratio (UACR) and GFR decline.




Methods

- Single center trial, total 132 participants with DKD were randomly assigned to dapagliflozin (n=78) 10 mg once daily or placebo (n=54).
- The primary end point was a composite of sustained decline in eGFR >50%, end-stage renal disease, or kidney or cardiovascular death.
- Progression/regression of UACR were assessed.
- Percentage treatment difference was estimated by geometric mean ratio for the overall cohort and by eGFR and UACR subgroups.
- Hazard ratios, 95% confidence intervals (CI), and p-values were estimated by Cox proportional hazards model.



Results

- Median baseline eGFR was 42.3ml/min/1.73 m², with 5% at <30ml/min/1.73 m².
- At baseline, median UACR was 103 mg/g, and 1/4 of patients had normoalbuminuria, 2/4 had micro, and 1/4 had macroalbuminuria.
- Median follow up was 18 months. 
- The UACR difference for dapagliflozin vs placebo was -25.1% (95% CI -27.5, -23.2; p< 0.001). Reductions were similar across eGFRs.
- In UACR 30-299mg/g and >300mg/g, reductions were significant in dapagliflozin (p< 0.001).
- Progression risk was lower and regression risk higher in dapagliflozin vs placebo (p<0.001).

Conclusions

- Dapagliflozin significantly slowed long-term eGFR decline in patients with CKD with T2D compared with placebo, and significantly reduced UACR and had favorable effects on UACR progression and regression.



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