



Shaping Tomorrow's Nephrology: Insight-Driven Kidney Care

KSN SEOUL, KOREA
2026

The 46th Annual Meeting of the Korean Society of Nephrology



Jun 11 (Thu) – 14 (Sun), 2026

COEX, Seoul, Korea

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Abstract Topic : Dialysis

Etiology-Specific Differences in Dialysis Outcomes: Diabetic Chronic Kidney Disease versus Hypertensive Chronic Kidney Disease

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Objectives : To compare the outcomes of dialysis among diabetic chronic kidney disease (CKD) versus hypertensive chronic kidney disease; in terms of cardiovascular events, electrolyte abnormalities and all cause mortality following dialysis.

Methods : Adult patients (≥ 18 years) with diagnosed cases of CKD dependent dialysis were divided into two groups: diabetic CKD and Hypertensive CKD. Study was conducted in the TriNetX database and propensity matching was done to eliminate potential biases. Risk ratio, cumulative incidence, hazard ratios were estimated and a $p < 0.05$, was considered statistically significant.

Results : After matching, 78,436 patients were included in each cohort. Compared with hypertensive CKD, diabetic CKD was associated with higher risks of acute myocardial infarction (RR 1.12, HR 1.11, $p < 0.001$), heart failure (RR 1.09, HR 1.11, $p < 0.001$), cerebral infarction (RR 1.14, HR 1.13, $p < 0.001$), and atherosclerosis (RR 1.16, HR 1.17, $p < 0.001$). Infectious risk was also higher in diabetic CKD, with increased sepsis incidence (RR 1.07, HR 1.06, $p < 0.001$). Electrolyte disturbances were more frequent among diabetic CKD patients, including hyperkalemia (RR 1.08, HR 1.09, $p < 0.001$), hyponatremia (RR 1.11, HR 1.10, $p < 0.001$), hypocalcemia (RR 1.04, HR 1.02, $p = 0.003$), and hypomagnesemia (RR 1.07, HR 1.06, $p < 0.001$). All-cause mortality was modestly but significantly higher in diabetic CKD (RR 1.06, HR 1.04, $p < 0.001$).

Conclusions : Diabetic CKD patients dependent on dialysis were associated with a higher rate of complications compared to hypertensive CKD patients emphasizing the need for etiology tailored surveillance.

Figure 1 (1)_page-0001.jpg



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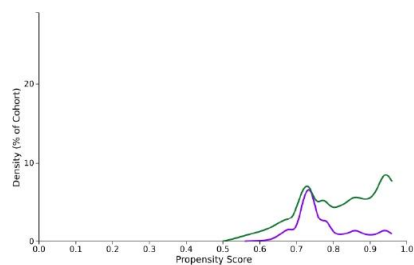
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Purple: Diabetic CKD

Green: Hypertensive CKD

Figure 1: Propensity score density function before matching.



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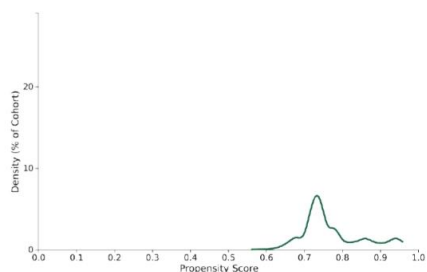
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Figure 2: Propensity score density function after matching.