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The Prevalence, Awareness and Treatment of Chronic Kidney Disease in Korean Adults

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Objectives: Chronic kidney disease (CKD) is a global public health problem, and its prevalence has dramatically increased with an increasing old aged and their chronic diseases. It is known that the rate of recognition and treatment of chronic renal failure is very low. But there is a lack of data on prevalence, awareness, treatment of CKD that is representative of the Korean population. Our objective was to investigate the prevalence, awareness and treatment in Korean CKD patients.

Methods: Among adults aged ≥ 19 years who participated in the Korea National Health and Nutrition Examination Survey (KNHANES) between 2013 and 2014, a total of 15,568 subjects were analyzed. CKD prevalence was defined as a eGFR $< 60\text{mL}/\text{min}/1.73\text{ m}^2$ or spot urine albumin to creatinine ratio $\geq 30\text{ mg}/\text{g}$.

Results: A total of 9,550 incident CKD patients between 2013 and 2014 were included in the analysis. The prevalence of CKD was 8.66%. Of the total patients, 341 patients (3.78%) were in the stage 1 of CKD, 316 patients (2.52%) in the stage 2, 311 patients (2.15%) in the stage 3, 15 patients (1.16%) in stage 4 and 4 patients (0.04%) in the stage 5. The rate of awareness and the treatment of CKD were 2.19% and 1.35%, respectively.

Conclusions: In this nationally representative KNHANES data, very low awareness and treatment observed for Korean patients with CKD. And we analyzed the prevalence of chronic kidney disease in Korean adults using the most up-to-date data available. The present findings provide meaningful epidemiological data.

Table 1. Prevalence of CKD

GFR grade	Frequency	Weighted Frequency	Weighted Percent of the CKD Prevalence
1	341	1,282,900	3.78 (3.54-4.02)
2	316	855,834	2.52 (2.25-2.69)
3	311	728,433	2.15 (2.01-2.29)
4	15	54,761	0.16 (0.11-0.21)
5	4	13,585	0.04 (0.02-0.06)
Total	987	2,935,513	8.66 (8.04-9.28)

Table 2. Awareness of CKD

Diagnosis of CKD by doctor	Non-CKD	CKD	Total
			N (%)
None	8029 (96.5)	906 (94.28)	8935 (96.27)
Yes	9 (0.11)	21 (2.19)	30 (0.32)
Unknown or unresponsive	282 (3.39)	34 (3.54)	316 (3.4)
Total	8320 (100)	961 (100)	9281 (100)