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Chronic Kidney Disease Prevalence by Age Group in Indonesia: Basic Health Research (2013-2018)

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Objectives: CKD is a health problem throughout the world. CKD prevalence in Indonesia was 0.2% in 2013 and increased to 0.38% in 2018. In the worst condition, CKD patients are in risk if they do not receive periodic hemodialysis or kidney transplantation to replace damaged kidneys. In Indonesia, CKD that are frequently found are kidney failure and kidney stone. This study aims to determine CKD prevalence by age group in Indonesia.

Methods: The data used was secondary data from Basic Health Research in 2013 and 2018. Basic health research was a national scale survey using cross sectional design. The sample was 15–≥75 years-old individuals with CKD diagnosed by a doctor.

Results: There are seven age groups, those are 15-24 years old, 25-34 years old, 35-44 years old, 45-54 years old, 55-64 years old, 65-74 years old and ≥75 years old. In 2013, CKD prevalence in 15-24 age group was 0.1%, 25-34 group was 0.1%, 35-44 group was 0.3%, 45-54 group was 0.4%, 55-64 group was 0.5%, 65-74 group was 0.5% and ≥75 group was 0.6%. In 2018, CKD prevalence in 15-24 age group was 0.13%, 25-34 group was 0.23%, 35-44 group was 0.33%, 45-54 group was 0.56%, 55-64 group was 0.72%, 65-74 group was 0.82% and ≥75 group was 0.75%. The prevalence has increased in the span of 5 years (2013-2018).

Conclusions: In conclusion, CKD prevalence is increasing by age. It is increasing greatly in the 35-44 age group, followed by 45-54, 55-64, 65-74 and the highest is in ≥75 years-old age group. In addition, CKD prevalence in 2018 is higher than in 2013 by age group. The high CKD prevalence in general and specifically in older people indicates that CKD must become the central issue for future public health planning.

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