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## CKD Prevalence in Sulawesi Island, Indonesia: Basic Health Research (2013-2018)

**Destriyani Destriyani**<sup>1</sup>, Mesri Kartika<sup>2</sup>

<sup>1</sup>Department of Nutrition, Universitas Gadjah Mada, Indonesia

<sup>2</sup>Department of Public Health, Hasanuddin University, Indonesia

**Objectives:** Kidney disease is a disorder that is affecting kidney due to various factors, such as infections, tumors, congenital abnormalities, metabolic or degenerative diseases, and others. These abnormalities can affect kidney structure and function with varying severity. CKD is a global health problem with increasing prevalence and incidence of kidney failure, poor prognosis, and high cost. Furthermore, CKD and renal calculi are often found in Indonesia. CKD prevalence in Indonesia reached 0.2% in 2013 and increased to 0.38% in 2018. This study aims to determine CKD prevalence in Sulawesi Island, Indonesia.

**Methods:** The data used was secondary data from Basic Health Research from 2013 to 2018. This research was an observational using a cross-sectional design. The samples were adolescents  $\geq 15$  years old with CKD diagnosed by a doctor.

**Results:** There are 6 provinces in Sulawesi, those are North Sulawesi, Central Sulawesi, South Sulawesi, Southeast Sulawesi, Gorontalo, and West Sulawesi. In 2013, CKD prevalence in North Sulawesi was 0.4%, Central Sulawesi 0.5%, South Sulawesi 0.3%, Southeast Sulawesi 0.2%, Gorontalo 0.4% and West Sulawesi 0.2%. In 2018, the prevalence was 0.53% in North Sulawesi, Central Sulawesi 0.52%, South Sulawesi 0.37%, Southeast Sulawesi 0.35%, Gorontalo 0.52% and West Sulawesi 0.18%. The highest CKD prevalence was in Central Sulawesi (0.5%) in 2013 and North Sulawesi (0.53%) in 2018.

**Conclusions:** CKD prevalence in the period of 5 years (2013-2018) among 6 provinces in Sulawesi has increased except West Sulawesi with decreasing number. Kidney function test is crucial to identify kidney disease as early as possible to give effective management. Public health interventions are required in controlling CKD in Sulawesi Island, Indonesia.

CKD Prevalence in Sulawesi Island

