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Characteristics of Renal Cell Carcinoma in Dr. Hasan Sadikin General Hospital Bandung, 2010–2014

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Abstract

Background: Data characteristics for renal cell carcinoma are mostly derived from developed countries. However, data from developing countries, specifically in Indonesia have not been fully described. This study aimed at describing renal cell carcinoma (RCC) characteristics based on age, gender, and histopathology type in Dr. Hasan Sadikin General Hospital Bandung.

Methods: This was a descriptive study conducted in August–October 2015. The data were collected from histopathology medical records of patients who had been diagnosed with RCC at Department of Pathology Anatomy Dr. Hasan Sadikin General Hospital Bandung, from 2010 to 2014. Total sampling was used as sampling method. Only RCC records that had complete variables; which were age, gender, and histopathological type; included in this study.

Results: There were 25 cases of renal cell carcinoma discovered in this study, 17 cases discovered in men and 8 cases discovered in women. The histopathology type found in this study was clear cell renal cell carcinoma (12 cases), papillary renal cell carcinoma (8 cases), chromophobe renal cell carcinoma (3 cases), and carcinoma of the collecting ducts of bellini (2 cases). There were no cases found below the age range 2–29 years old and above the age range 70–79 years old.

Conclusions: Men have higher incidence than women with the ratio of 2:1. Peak incidence is found on the age range 50–59 years old. The most common histopathology type is clear cell renal cell carcinoma. [AMJ.2016;3(4):644–8]

Keywords: Age, gender, histopathology type, renal cell carcinoma

Introduction

Renal cell carcinoma is the most common renal cancer (85–90%). Its incidence and mortality rate continue to increase in many developed and developing countries.^{1–3} Developed countries have higher incidence and mortality rate than developing countries do.^{1,3} The characteristics of data for renal cell carcinoma are mostly derived from developed countries that have already had a good system for medical record registration or better health services. Therefore the characteristics of data have not yet described the situation in developing countries, specifically Indonesia.^{1,3–6}

West Java, which is the most populous province in Indonesia, from statistical data

has high level of risk factors for renal cell carcinoma. Some of the risk factors are smoking, obesity, and hypertension.^{7–10} West Java is the second highest province in terms of proportion of daily active smokers who are older than 10 years (27.1%).¹¹ The prevalence of hypertension and obesity in West Java are 29.4% and 15.4%.¹¹

Dr. Hasan Sadikin General Hospital Bandung is the main referral hospital for cancer in West Java. Therefore, it is indicated that the characteristics of renal cell carcinoma based on age, gender, and histopathology type in Dr. Hasan Sadikin General Hospital Bandung are abundant. This condition meets the aim of the study, which is to describe the data characteristics.

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