

## Abstract

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Program Study : Public Health (MRS)  
Title : The Correlation of Gender, Age, and Blood Pressure with Type 2 Diabetes Melitus in Cempaka Putih Public Health Center 2016

Diabetes mellitus (DM) is a group of metabolic diseases characterized by hyperglycemia resulting from defects in insulin secretion, insulin action, or both. The latest IDF (International Diabetes Federation) report revealed that there are 382 million a whole world peoples living with Diabetes Melitus in 2013.

The general purpose of this research is to describe Type 2 Diabetes Mellitus in Cempaka Putih Public Health Center. Particular purpose of this research is to determine the relationship between gender, age, and blood pressure and Type 2 Diabetes Mellitus in general patient at Public Health Center Cempaka Putih 2016. This research used *case-control* method with 131 control group samples and 131 case group samples and then analyzed the correlation with statistical *chi-square test*.

Results: the prevalence of diabetes melitus in the group of women are 82 peoples (62,6%), and in the group of men are 49 peoples (37,4%). Prevalence of Diabetes Melitus in the less then 45 years are 25 peoples (19,1%) and in the over 45 years were 106 peoples (80,9%). Prevalence of Diabetes Mellitus in the group of blood pressure <140/90 mg/dl are 88 peoples (67,2%) and the group of blood pressure  $\geq$  140/90 mg/dl are 43 peoples (32,8%). This research proofed that there is correlation between type 2 Diabetes Melitus with age (p value:0,000; OR: 5,174; 95% CI: 2,969-9,016) and blood pressure (p value:0,000; OR: 3,779; 95% CI: 1.97-7,237).

It is necessary to public health center Cempaka Putih to promote to elevating public health status, to early diabetes detection the family with  $\geq$  45 years with type 2 Diabetes Melitus and immediately share the information about risk factors of Diabetes to patient with blood pressure  $\geq$ 140/90 mg/dl.

**Keywords:** Diabetes Mellitus, Gender, Age, Blood Pressure, correlation