

ABSTRACT

CORRELATION BETWEEN SOMATOTYPE AND DIABETES MELLITUS (DM) TYPE II ON WOMEN

The Research Study was Observational Cross Sectional at The Diabetes Mellitus Association in One of The Private-Owned Hospitals in Surabaya and Surabaya Mandiri Sidoyoso Eldery Integrated Service Post

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Somatotype describes view of the whole body and conveys morphology character totality of the human body. In Biology, Somatotype is a better method in predicting the risk of a disease than by predisposition, one of them is Diabetes Mellitus. Diabetes Mellitus (DM) recently becomes world's health problem, since the incident of this disease is on the rise specially on the developing countries. The goal of the research was to examine the correlation between somatotype and diabetes mellitus (DM) type II on women at the Diabetes Mellitus Association in one of the private-owned hospitals in Surabaya and Mandiri Sidoyoso Eldery Integrated Service Post in Surabaya. The research study was cross-sectional research. The sample gathered on this study were women of more than 40 years old of age by using purposive sampling method. There were 2 variables on the research, the independent variable is a kind of somatotype and the dependent variable was the respondent's background of DM type II. The technique Analysis of the research findings was using Chi-Square test and than continou with Correlation Coefficient Phi test with the meaning degree of ($\alpha= 0,05$). The research findings ($p= 0,004$) with weak correlation ($0,294$), so that $p > \alpha$. Showed that there is correlation between kind of somatotype and DM type II at Diabetes Mellitus Association in one of the private-owned hospitals in Surabaya and Mandarin Sidoyoso Eldery Integrated Service Post in Surabaya. The respondent's result found that DM type II (58,2%) the majority had endomorph type. This findings describes that endomorph is a kind of somatotype which has more risks having correlation with Diabetes Mellitus type II since the fats which dominated on this body has correlation with body metabolism function, that is blood's glucose.

Key Words: kind of somatotype, DM type II