

ABSTRACT

Background: Cancer is one of the main cause of death in the world. Breast cancer is one of big five cancer in the world that causes the death of females, with the number of cases was estimated up to 1.67 million cases in 2012 (25 percent of all cancer). Breast cancer caused by many factors. One of the risk factors is the use of hormonal contraceptive containing a combination of estrogen and progesterone. However many research about risk factors of breast cancer there are still given many controversy on the risk factors which influence, so that this needs to be done further research.

Methods: This research use design case control study. The case group was taken from patient in unit chemotherapy RSUD Panembahan Senopati Bantul, and diagnosis patients during case group ascertained medical records on each patient. Every participant were given a question based on same questioner.

Result: Research done to total 225 woman, 75 woman who was diagnosed as breast cancer was include to case group. Then 150 woman who was not diagnosed as breast cancer was include to control group. In case group, 24 woman is user of hormonal contraceptives and 51 woman never use hormonal contraceptives. In control group, 63 woman is user of hormonal contraceptives and 87 woman never use hormonal contraceptives. Bivariat analysis obtained the value of $p= 0,146$, where $p>0.05$. Multivariate analysis obtained the value of $p= 0,070$, OR= 0,518 (95 % CI 0,254 - 1,054).

Conclusion: There is no influence between the use of hormonal contraceptives with the breast cancer incidence.

Key word: *breast cancer, use of hormonal contraceptives, estrogen and progesteron.*