ABSTRACT

Thyroid Cancer is the ninth order of cancer incidence in Indonesia. Thyroid Cancer is a disease that is not contagious which attack in front of neck little bit below the larynx that is shaped of butterfly. The thyroid gland is often limit the ability to produce thyroid hormone, but sometimes produce more enough thyroid which causing hyperthyroidism. So that is important to be done so that the cancer is known to be benign or malignant, and in order to not occur error on handling. This research aims to know factors that influence emergence of thyroid cancer. Method of Classification and Regression Tree is an classification analysis where response variable can be in categorical and continuous scale. The data used in this research is secondary data obtained from patient’s medical record in Hospital “X” Surabaya in 2011 and 2012 with response variable in categorical scale. Learning and Testing combination used is combination/group 1 consist of 65 learning data and 17 testing data. Classification result on the Method of CART on diagnosed the malignancy level of thyroid cancer showed that most significant influence factor is result of clinical examination.

Keywords: CART, Thyroid cancer