

Abstract

Leukemia mean “white *corpuscle*” because in patient blood founded many phagocyte before given by therapy. Visible phagocyte representing many young cells, where if its amount exceed normal situation can disturb other normal function. Normal of human being blood is liquid which is called plasma, consist of three cell type that is red corpuscle (erythrocytes), phagocyte (leucocytes), blood keping (trombonists) which have different form, wide cell, textures, function colour and different rate. One of the medical diagnose in detecting disease leukemia is observed the preparat which located under microscope. As an important notice, each medical accuracy is different. Thus, Technique Image Processing is able to assist medical purpose, in this case become , Image assist " eye substitution " for analyzing corpuscle image.

In This Final Duty is designed for software which can classify type of Leukemia. It started from image Acquisition of RGB, Preprocessing, Tresholding, Segmentation and Analysis Classification Leukemia be able to diagnose corpuscle image. It's mount different medical correctny corpuscle image which to check disease of leukemia disease type further more classify which expected is caught of leukemia diseases as ALL, CLL, and AML. Classification of Leukemia disease type based on cell image with the comparison wide of cell ratio aspect and colour.

The test result shows that ALL has ratio range between 0.5-1.5 with wide area 0-2500 pixel, and CLL has ratio range between 0.5-2.5 with wide area 0-2000 pixel and also AML has ratio range between 0.5-2.5 with wide area 1500-5000 pixel.

Keywords : Leukemia, Image Corpuscle Leukemia, Digital Image Processing.