Abstract

Hospital's daily routine are filled with patients come and go. Inside their laboratory, many types patient's excretion including blood being diagnosed to indicate abnormalities or potential diseases.

In this Final Project, the topic is to help the diagnosis of trombocit counting. Not many knew that the trombocit counting process is done manually, by mixing the blood and reagent, thus examined manually under the microscope.

This Final Project involves analysis and implementation of software which could replace manual trombocit counting process. This software will use digital image processing method and will be implemented using MATLAB 7.0. The way it would be done is, the blood which was mixed with reagent is converted to digital image and the software would counting it.

The final result is a software that can replace manual trombocit counting process. Besides, it will be tested for accuracy and processing time speed.

Keyword: trombocit, digital image, image processing.