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WASIAATUL ULUM

PENGARUH PEMBERIAN EKSTRAK ETANOL 70% DAUN JAMBU BIJI (PSIDIIUM GUAJAVII L) TERHADAP KADAR GM-CSF TIKUS

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The Influence of 70% ethanol extract of guava leaf (Psidium guajava L.) on the GM-CSF Level at Rats

Harijono Achmad (2001) have proved that extract of guava (Psidium guajava L.) leaf can increase the amount of trombocyte in DHF patient with thrombocytopenia. GM-CSF is a cytokine that stimulate thrombopoiesis so it can be used to be an indicator to know the influence of extract of Psidium guajava L. leaf to thrombopoiesis. Quercetin, a compound that suggest had activity to increase trombocyte was used as a marker. The aim of this research is to know the influence of 70% ethanol extract of Psidium guajava L. leaf to GM-CSF by in vivo at rats. Sample used in this research was 70% ethanol extract of Psidium guajava L. leaf which was suspended in 0.5% CMC-Na solution and arranged in 3 doses: dose 1 2,724 mg/200 g BW, dose 2 5,407 mg/200 g BW, and the thirth is 10,813 mg/200 g BW (each dose equivalent with 0.067 mg, 0.133 mg, 0.266 mg quersetin respectively). The extract was given orally during 6 days successively, and blood was taken by intracardial on seventh. Serum was taken to be measured with ELISA method to get the Optical Density (OD) of GM-CSF. The result showed that 70% ethanol extract of Psidium guajava L. leaf dose 1 (2,724 mg/200 g BW), dose 2 (5,407 mg/200 g BW), dose 3 (10,813 mg/200 g BW) can increase GM-CSF. We suggest furthermore research to know the active compound.

Keywords: Psidium guajava L., Dengue Haemorrhagic Fever, Trombocytopenia, Granulocyte-Macrophage Colony Stimulating Factor, Enzyme Linked Immunoabsorbent Assay.