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[PP-01]

Total Phenolic, Total Flavonoid, Quercetine Levels and α-Glucosidase Inhibitory Activity of Combined Ethanolic Extract of Salam (*Syzygium polyanthum*) and Kersen (*Muntingia calabura*) Leaves

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Speaker : Agustinus Widodo (Universitas Tadulako)

Diabetes Mellitus, a global health challenge affecting millions of people, has sparked a growing interest in exploring alternative therapies to traditional from synthetic medications. There has been a surge in the investigation of herbal remedies as complementary or alternative treatments for diabetes. Natural products are increasingly recognized for their potential benefits in managing diabetes. Among herbal plants, two remarkable Indonesian plant species, Salam (*Syzygium polyanthum*) and Kersen (*Muntingia calabura*), have emerged as promising candidates due to their well-documented therapeutic properties. Salam leaves contain myricitrin and EGCG, which are α-glucosidase inhibitors known for their ability to mitigate blood glucose levels in individuals with diabetes. On the other hand, Kersen leaves have traditionally been used as an alternative therapy, as they possess compounds with anti-diabetic properties. Combining these two plants is expected to be more optimal as anti-diabetic agents. This study aims to evaluate the anti-diabetic activity of combined ethanolic extract of Salam and Kersen by measuring α-glucosidase enzyme activity and further determining total phenolic, total flavonoid and quercetin levels. Both plants were extracted by maceration methods using 96% ethanol and the filtrate obtained was evaporated in rotary evaporator until achieved obvious extracts. The Salam and Kersen leaves extracts were prepared with combination variation of 1:1; 2:1; 3:1; 1:3; and 1:2. The total phenolic, total flavonoid and α-glucosidase enzyme activity were measured by using spectrophotometer UV-Vis, Meanwhile quercetin levels was measured by using HPLC. The results showed that a 1:1 combination of Salam and Kersen leaves ethanolic extract exhibits the strongest enzyme inhibitory activity with an IC50 value of 36.43 mg/L, with the total phenolic, total flavonoid and quercetin levels were 30.81 %b/b, 1.37 % b/b and 3.25 mg/g, respectively. These promising results suggest that combinations of Salam and Kersen leaves ethanolic extract holds great potential for future development of anti-diabetic treatments.

Keywords: *Syzygium polyanthum*, *Muntingia calabura*, α-glucosidase, total phenolic, total flavonoid

[PP-02]

Differences in body weight and total cholesterol levels after administration of *Syzygium aromaticum* extract in Sprague Dawley rats with high fat diet

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Syzygium aromaticum has an antioxidant effect and lowering lipid profile. This study aims to evaluate the changes in body weight and total cholesterol level after administration of Syzygium aromaticum in various doses of administration. 30 male Sprague Dawley rats are divided into 6 groups: normal group (normal diet), negative control (high fat diet/HFD only), positive control (HFD and simvastatin), group 1 (HFD and *Syzygium aromaticum* 150mg/BB) group 2 (HFD and *Syzygium aromaticum* 250mg/KgBB) and group 3 (HFD and Syzygium aromaticum 500mg/KgBB). Body weight is evaluates every week for 6 week and total cholesterol level are evaluate pre and post treatment with *Syzygium aromaticum*. The results showed a significant increased in total cholesterol level in negative control group (HFD only), and no significant differences in body weight level in other groups. It can be concluded that the administration of Syzygium extract aromaticum reduced total cholesterol level and maintain normal body weight.

Keywords: