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## Studi pemanfaatan dan keamanan kombinasi metformin dengan ekstrak Campuran ANDROGRAPHIS PANICULATA dan SYZYGIUM PLYNTHUM untuk pengobatan diabetes Mellitus=Preliminary Study

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## Abstrak

Background: Use of Andrographis paniculata and Syzigium polyanthum have been sed widely, on the contrary the benefit and safety have not been scientifically proven. This study aimed to overviwe and analyze benefit and safety the extract of Andrographis paniculata and Syzigium polyanthum mixture to decrease blood glucose concentration. Methods: It was an experiment study among intervension and control group by a block random sampling with pre-post tesy design. Data were collected by questionnres and also data among interbension group, therapy of conventional antidiabetic of metformin in combination to the herbal extract of Andrographis paniculata and Syzigium polyanthum mixture (1:1) with among control group, of methformin. A total samples of 30 diabetes Melitus respondents were selected among males or females, aged 40-60 years with blood glucose concetration of 140-220 mg/dl, has no history of hypertension or has mild hypertension, the samples were deviced in 2 group composed of 15 person among intervsion and 15 person amon control groups, repectively. the interversion gruop was given metformin 500 mg once a day in the morning taken 15 minutesafter breakfest in combination to the extract of Andrographis paniculata and Syzigium polyanthum mixture (1:1) of 700 mg. The contrl group was given metformin 500 mg once a day in the morning taken 15 minutes after breakfast in combination to placebo. The duration of therapy was 4 weeks. Data were taken by anamnesa, physical diagnose, laboratory examination of fasting blood glucose and Oral Glucosa tolerance test (OGTT) in every week. Meanwhile for examination side effect on liver and run function test in every 2 (two) week. The data were analyzed descriptively and test. Results: Results showed that the intervention grop given metformin in combination to the extract of Andrographis paniculata and Syzigium polyanthum mixture (1:1) of 700 mg could significantly decrease fasting blood glucose but could not significantly decreaseOGTT in comprasion to control group given metformin with placebo. There were no side effects on liver and kidney function test in the theraphy of herbal extract of Andrographis paniculata and Syzigium polyanthum mixture in duration of 4 week. It concluded that the herbal of Andrographis paniculata and Syzigium polyanthum mixture is safe.