

PENGARUH PEMBERIAN SUSPENSİ MENIRAN (*Phyllanthus niruri* L.) TERHADAP KERUSAKAN HEPAR TIKUS PUTIH YANG DIINDUKSI ANTITUBERKULOSIS RIFAMPISIN DAN ISONIAZID

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Abstract	<p>Tuberculosis treatment required at least two antituberculosis drugs (ATDs) and long term course. Isoniazid (INH) and Rifampicin are the two most active ATDs and were used in whole course of treatment. INH and Rifampicin combination increased risk of hepatotoxicity. Meniran (<i>Phyllanthus niruri</i> L.) contains phyllanthin, active substance that is believed to have hepatoprotective activity. The aim of this study was to know the effect of meniran suspension on AST/ALT blood levels and histopathological findings after induction of Rifampicin and INH. Twenty five male albino rats (<i>Rattus norvegicus</i>) wistar strain aged two months and weighed 150-200 grams were divided into five groups of five each. Positive control (A) was treated with aquadest, negative control (B) was treated with Rifampicin and INH; one dose meniran (I) was pre-treated with 16,2 mg meniran before ATDs; two dose meniran (II) was pre-treated with 32,4 mg meniran before ATDs, three dose meniran (III) was pre-treated with 48,6 mg meniran before ATDs. The drugs were administered orally for 28 days. Blood samples for ALT/AST levels and histopathology sample were taken at the end of study. One way ANOVA, post hoc and linear regression were used for data analysis. There was significant mean difference for ALT levels ($p=0,000$) but not for AST level ($p>0,05$). Increasing dose of meniran decreased serum level of ALT ($r=-0,539$). Vacuolar degeneration, necrosis and portal triad leucocytes infiltration were most common in negative control groups, while these changes were reduced in meniran-treated groups. We can conclude that meniran pretreatment reduces INH-rifampicin-induced hepatotoxicity.</p>
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