EFFECT OF POMEGRANATE EXTRACT (*Punica granatum* Linn) TO RENAL HISTOPATHOLOGY ON WHITE RATS (*Rattus norvegicus*) IN THE PROCESS OF ACUTE RENAL FAILURE

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ABSTRACT

This research was aimed to know the effect of pomegranate extract on renal histopathology of white rats in the process of acute renal failure. 24 male rats 2-3 months old with 150-200 gram body weight were grouped into four different treatment for seven days followed: P0 group as a control group treated with CMC Na 0.3% and saline, P1 group treated with gentamycin and CMC Na 0.3%, P2 group treated with gentamycin and ellagic acid in CMC Na 0.3%, P3 group treated with gentamycin and pomegranate extract in CMC Na 0.3%. After 7 days treatment, take the rats renal by laparotomy and then making preparations histopathologi with staining *Haematoxylin Eosin* (HE). Based on the result of *kruskal-Wallis* statistical analysis on renal histopathology showed this research that the treatment have significant difference (*p* < 0.05). The pomegranate treated group (P3) gave the best value on the renal morfologi, it gave a good effects in preventing nefrotoxicity in white rats.

Key Words: gentamycin-induced, nefrotoxicity, acute renal failur (ARF), pomegranate extract, renal histophatology