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Antibacterial activity of ethanol extract of noni fruits (*Morinda citrifolia* L.) to *Propionibacterium acnes*

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Acne vulgaris is an inflammatory form of the skin, around the pilosebaceous units. *Propionibacterium acnes* are the most recognized bacteria as a key factor for the development of acne. To overcome the problem of antibiotic resistance, herbal plants have been studied as alternative treatment for acne, such as noni fruit. The purpose of this study was aimed to identify the inhibitory effect and minimum inhibitory concentration (MIC) of ethanol extract of noni fruit (*Morinda citrifolia* L.) against the growth of *P. acnes* by in vitro method. This study was a quasi-experimental with post-test only control group design. Antibacterial effect was measured by disk diffusion (Kirby Bauer) method. Concentrations of tests used were 75%, 50%, 25%, 12.5% and 6.25%, Clindamycin as positive control and sterile distilled water as negative control. Minimum inhibitory concentration (MIC) was determined by measuring the clear zone formed and then compared with the inhibition zone of Clindamycin in millimeter. MIC seen from the noni fruit (*Morinda citrifolia* L.) was 25% concentration with inhibitory zone diameter formed was 16.58 mm. The largest inhibitory zone diameter was at 75% concentration with inhibitory zone diameter formed was 16.75 mm. In conclusion, ethanol extract of noni fruit had an antibacterial effect on *P. acnes* by in vitro method.

Biography

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