Abstract ID: 97

**Preliminary phytochemical screening and antibacterial activity of methanol and ethylacetate fractions from *Glochidion superbun’s* leaves extract**

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**Introduction:** The leaves of *Glochidion superbun* and other similar plants had been in use as a folk medicine by indigenous people in South East Asia for treatment of wound infections and diarrhoea. As recommended by WHO, studies on medicinal plants should include both identification of the chemical constituents and determination of their biological activities. Thus, the study aims to screen various local plant extracts for antibacterial activity and determine the extract fraction showing the highest antibacterial activity. **Methods:** In this study, *Glochidion superbun* leaves methanol extract was selected after preliminary antibacterial screening of this extract alongside extracts of *Rennellia elliptica* (leaves and roots) and *Uncaria acida* (stem and leaves) by the agar disc diffusion method against *Escherichia coli* ATCC 35218, *Pseudomonas aeruginosa* ATCC 27853, *Staphylococcus aureus* ATCC 25923, and *Bacillus subtilis* ATCC 11778. Furthermore, methanol leave extract of *Glochidion superbun* was subjected to a qualitative phytochemical screening. The extract was fractionated using Vacuum Liquid Chromatography (VLC) method and the following fractions were obtained: methanol 2.2 g (4.7%), ethylacetate 38.3 g (81.4%) and ethylacetate:methanol 5.0 g (10.6%). **Results:** The ethylacetate:methanol 1:1 fraction showed the highest in vitro dose-dependent inhibitory activity at concentrations of 25, 50, 100 and 150 mg/mL against the growth of *E. coli* ATCC 35218, and *S. aureus* ATCC 25923. **Conclusions:** This research has demonstrated proof of concept that the plant extract of *Glochidion superbun* leaves has antibacterial activity against both gram-positive and gram-negative bacteria.

**KEYWORDS:** *Glochidion superbun*, Screening, fractionations, antibacterial activity