



Research article

In vitro hemostatic activity of ethanol extracts of Beetroot (*Beta vulgaris* L.) in blood male albino rat

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Abstract

Objective: The purpose of this research was to determine the in vitro hemostatic activity of ethanol extract of beetroot (*Beta vulgaris* L). **Methods:** In vitro hemostatic activity was performed on whole blood of rat by Lee-White method to determine the clotting time and the Eustrek method to observe the microscopic picture of clotted blood. **Results:** The results of in vitro study showed that ethanol extract of Beetroot at the concentration of 1% and 2% decreased the clotting time at the minute of 24.4 ± 1.14 and 15.9 ± 0.65 , respectively, as compared to EDTA treatment which did not clot for 120 min ($p < 0.05$) and microscopically showed that blood cells appear to be attached to each other at the concentration of 1% and 2% of ethanol extract of Beetroot. The hemostatic activity of ethanol extract of beetroot showed a dose-dependent manner in the in vitro study. **Conclusion:** Ethanol extract of beetroot (*Beta vulgaris* L) has hemostatic activity on in vitro method.