

Evaluation of Thrombolytic Activity of Zingiber cassumunar Roxb. and Thai Herbal Prasaplai Formula

Authors : Warachate Khobjai, Suriyan Sukati, Khemjira Jarmkom, Pattaranut Eakwaropas, Surachai Techaoei

Abstract : The propose of this study was to investigate *in vitro* thrombolytic activity of Zingiber cassumunar Roxb. and Prasaplai, a Thai herbal formulation of Z. cassumunar Roxb. Herbs were extracted with boiling water and concentrated by lyophilization. To observe their thrombolytic potential, an *in vitro* clot lysis method was applied where streptokinase and sterile distilled water were used as positive and negative controls, respectively. Crude aqueous extracts from Z. cassumunar Roxb. and Prasaplai formula showed significant thrombolytic activity by clot lysis of 17.90% and 25.21%, respectively, compared to the negative control water (5.16%) while the standard streptokinase revealed 64.78% clot lysis. These findings suggest that Z. cassumunar Roxb. exhibits moderate thrombolytic activity and cloud play an important role in the thrombolytic properties of Prasaplai formula. However, further study should be done to observe *in vivo* clot dissolving potential and to isolate active component(s) of these extracts.

Keywords : thrombolytic activity, clot lysis, Zingiber cassumunar Roxb., Prasaplai formula, aqueous extract

Conference Title : ICPPS 2017 : International Conference on Pharmacology and Pharmaceutical Sciences

Conference Location : Tokyo, Japan

Conference Dates : May 28-29, 2017