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Title: In-vitro bronchodilator activity *Clitoria ternatea* and *A. precatorius*

Prof. Raju 5396 Patil patilrn31@rediffmail.com¹, Prof. Dnyaneshwar 5397 Taur dnyaneshtaur@gmail.com², Dr. Ravindra 5398 Patil rypatil1971@yahoo.co.in³ and Dr. Dheeraj 5399 Ahirwar copmalegaon@gmail.com⁴.¹ Department of Pharmaceutical Chemistry, S.V.P.M's College of Pharmacy, Malegaon (Bk) Tal-Baramati, Maharashtra, India, 413115 ;² Department of Pharmacognosy, S.V.P.M's College of Pharmacy, Malegaon (Bk) Tal- Baramati, Maharashtra, India, 413115 ;³ Department of Pharmacognosy, PDEA's Shankarrao Ursal College of Pharmaceutical Sciences and Research Center, Kharadi, Pune, Maharashtra, India, 411014 and ⁴ Department of Pharmacognosy, CEC School of Pharmacy, Bilaspur, Chhattisgarh, India

Body: Introduction: Asthma is a complex disorder of airway inflammation. The leaves of *Abrus precatorius* Linn. (Fabaceae) and roots of *Clitoria ternatea* Linn family Fabaceae have been traditionally used for the treatment of asthma. Aim and Objectives: Hence, the objective of present study was to evaluate ethanol extract of *A. precatorius* leaves and *C. ternatea* root for in-vitro bronchodilator activity using histamine induced contraction of goat tracheal chain. Method: Trachea chain was suspended in 30 ml organ bath containing Krebs's solution which was maintained at 37 ± 0.5 °C with continuous aeration. The responses of contraction induced by histamine at concentration (0.5 µg/ml) without test extracts and in the presence of test extracts at a concentration of 2.5-25 µg/ml; in Krebs solution were recorded. The percent relaxation of histamine contracted goat trachea in the presence of test extracts were calculated (Kulshrestha, S. et al. Indian J Pharmacol 1983; 15(2): 107-110). Results: Result of study reveals that ethanol extract of *A. precatorius* leaves and *C. ternatea* root showed the significant relaxations of histamine induced precontracted goat trachea. The percent relaxation of goat trachea 60.22 and 60.80 were observed by ethanol extract of *A. precatorius* leaves and *C. ternatea* root at concentration 25 µg/ml respectively as shown in Figure 1.

Conclusions: In conclusion *A. precatorius* leaves and *C. ternatea* root shows in-vitro bronchodilator property.