

Phytochemical evaluation and anti-diabetic activity of *Smilax aristolochiaefolia* mill

Majeeda Begum, Anupama Koneru, M. A. Waheed and M. A. Rasheed

Sultan-UI-Uloom College of Pharmacy, India

Smilax aristolochiaefolia Mill. belongs to Smilacaceae family. It has been traditionally employed in the treatment of skin diseases, as blood purifier and anti syphillis drug. Recently, it is reported to have hematopoietic activity. Systemic standardization with modern parameters and anti-diabetic activity was lacking. The present investigation on roots of the plant was aimed to establish physico-chemical and preliminary phytochemical standards including spectral studies which would help in identification as well as in checking adulteration, if any, further the study will greatly help in quality assurance of finished products of herbal drugs.

This present study was also undertaken to evaluate the anti-diabetic activity in aqueous extract of the roots in rats. The anti-diabetic activity was evaluated by retro orbital method and compared to the standard drug metformin hydrochloride. Oral administration of the extract at the doses 200 and 300 mg/kg b.w. exhibited significant anti-diabetic activity. 300 mg/kg b.w. dose showed statistically significant ($p < 0.005$) anti-diabetic activity when compared to the standard drug. Hence, present investigation established the pharmacological evidence to support the claim that *Smilax aristolochiaefolia* can be as used as glucose lowering agent in diabetics.

Biography

Majeeda Begum is currently pursuing Master of Pharmacy (Pharmaceutical Chemistry) from Sultan-UI-Uloom College of Pharmacy affiliated to Jawaharlal Technological University of Hyderabad. She has undergone project training for the current drug *Smilax aristolochiaefolia* in the category of Anti-diabetic in Central Research Institute of Unani Medicine (CRIUM), Hyderabad for the period of March-August 2013 under the esteemed guidance of Dr. Anupama Koneru, Principal, Sultan-UI-Uloom College of Pharmacy, Hyderabad, Dr. M. A. Waheed, Director in-charge, CRIUM, Hyderabad and Mr. M. A. Rasheed, Research Scholar, CRIUM Hyderabad.

majeeda786m pharm@gmail.com