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Anti - bacterial and anti - histaminic activities of a siddha formulation : Pavala puttru chunnam

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Abstract

Pavala Puttru Chunnam (PPC) is a traditional Siddha medicinal formulation. A marine sourced product which is synthesized through calcinations of Coral reefs as narrated in Siddha classical literature according to Agasthiar Pallu 200. Evidence shows that *Pavala Puttru Chunnam* has anti histaminic action and evident in controlling Eraippu Erumal (Bronchial Asthma). So, in this study my primary work is to validate the safety and efficacy of Pavala Puttru Chunnam (PPC). The raw drug "*Pavala puttru"* were procured from the reputed drug store at Madurai, Tamil Nadu and purified according to literature procedure, by boiling in cow's milk for three hours and the test drug Pavala Puttru Chunnam was prepared according to the process of Calcinations as described in Agasthiar pallu 200, page no: 96. And other analytical chemicals used for this experiment were collected from wave chemicals Ltd, Cochin. This study experiments include preliminary Bio-chemical studies, Anti-histaminic activity of Pavala Puttru Chunnam in isolated guinea pig ileum by standard methods, Geo-chemical analysis of heavy metals by flame AAS by the method as described in loring and rantala et al., 1992, Anti-bacterial studies by disc diffusion method, Acute oral toxicity study under OECD 423 guidelines. The bio-chemical analysis of Pavala Puttru Chunnam shows that it has the contents of calcium, ferrous iron. In vitro studies, Pavala Puttru Chunnam has well anti microbial activity against the bacterial strains. Animals were found to be safe up to a maximum dose of 1600 mg/kg body weight in acute toxicity studies. The experimental studies done on animal model, shows potent action by antagonizing the effect of histamine.

Conclusion: Pavala Puttru chunnam is the safest and efficacious drug when compared to standard drug.

Biography

Dr. Shree Devi M.S, is currently working as Reader in Sivaraj Siddha Medical College, Tamil Nadu, India. She graduated in Siddha Medicine from Government Siddha Medical College, Chennai, and did her post graduation in Gunapadam (Siddha Pharmacology) from Government Siddha Medical College, Palayamkottai from The TN Dr M.G.R. Medical University, Chennai. She holds diplomas in Yoga, Varma, Ayurvedic massage and Herbal medicine. Now pursuing her PhD in Vel's University, Chennai. Currently, she is engaged in teaching as well research activities and published more than 20 research papers in national and international journals and seminars. She has been serving as a reviewer for reputed journals.