

Possible Role of Natural Nephroprotective; *Hemidesmus indicus* in Congestive Heart Failure

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ABSTRACT

Hemidesmus indicus R.Br. is a treasure of the forest and herbal wealth. It is being used as folk medicines and as an ingredient in Ayurveda and Unani preparations against diseases of blood, inflammation, diarrhea, urinary disorders and rheumatism etc. The objective of the present study was to evaluate the role of natural nephroprotectant *Hemidesmus indicus* for the treatment of congestive heart failure. *Hemidesmus indicus* extracts were evaluated by using salt water induced left ventricular hypertrophy in Spargue dawley rat model. The property was evaluated using serum creatinine, urea, SGOT, SGPT and urine albumin, creatinine, Na⁺, K⁺ and Ca⁺⁺ as biochemical parameters and histopathological changes including myocyte diameter, neutrophil infiltration and cardiac hypertrophy. Results obtained from the present study indicates that aqueous and methanolic extracts have more significant inhibitory effect on salt water feeding induced severity of microalbuminuria, serum urea and creatinine, myocyte diameter and retention of Na⁺ and water and increases the serum calcium level. We conclude from the present study that, potent natural nephroprotectant *Hemidesmus indicus* is also a potent cardioprotective.

KEYWORDS

Hemidesmus indicus . left ventricular hypertrophy . myocytes . microalbuminuria . Cardioprotective

REFERENCES

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