PHARMACOGNOSY RESEARCH
DOI: | pp. 406-409 | Nov-Dec 2009
Published by Phcog.Net

Benincasa cerifera Ameliorates Renal Ischemia/Reperfusion Injury in Hyperlipidemic Rat

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ABSTRACT

To investigate protective effect of Benincasa cerifera (BC) against kidney injury induced by Ischemia/Reperfusion (I/R) in hyperlipidemic (HC) rats. Hyperlipidemia was developed by cholesterol diet (2% cholesterol and 20 % coconut oil) feeding for 3 weeks. At the end of 3rd week, renal ischemia was induced by both renal arteries occlusion for 60 min followed 24 h of reperfusion. Methanolic extract of Benincasa cerifera (500 mg/kg/day) was administered orally 7 days before induction of ischemia. Benincasa cerifera treatment reversed all antioxidant parameters like superoxide dismutase (SOD), reduced glutathione (GSH) and malondialdehyde (MDA) contents as well serum creatinine and blood urea nitrogen (BUN) levels. This data conclude the renoprotective activity of Benincasa cerifera against renal damage induced by ischemia/reperfusion injury in hyperlipidemic rat.

KEYWORDS

Benincasa cerifera . cholesterol . oxidative stress . renal ischemia/reperfusion injury

REFERENCES

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