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dra.fatimaramos@terra.com.br

INTRODUCTION

SALVIA MILTIORRHIZA BUNGE PROTECTS RENAL FUNCTION IN PARTIAL URETERAL UNILATERAL OBSTRUCTION IN RATS

Ramos MFP*, Paterno J C*, Razvickas CV*, Rehder VLG#, Schor N*, Teixeira VPC*

*Nephrology Division, Department of Medicine, UNIFESP-EPM, SAO PAULO, Brazil.

Centro Pluridisciplinar de Pesquisas Químicas, Biológicas e Agrícolas (CPQBA) da UNICAMP, SAO PAULO, Brazi

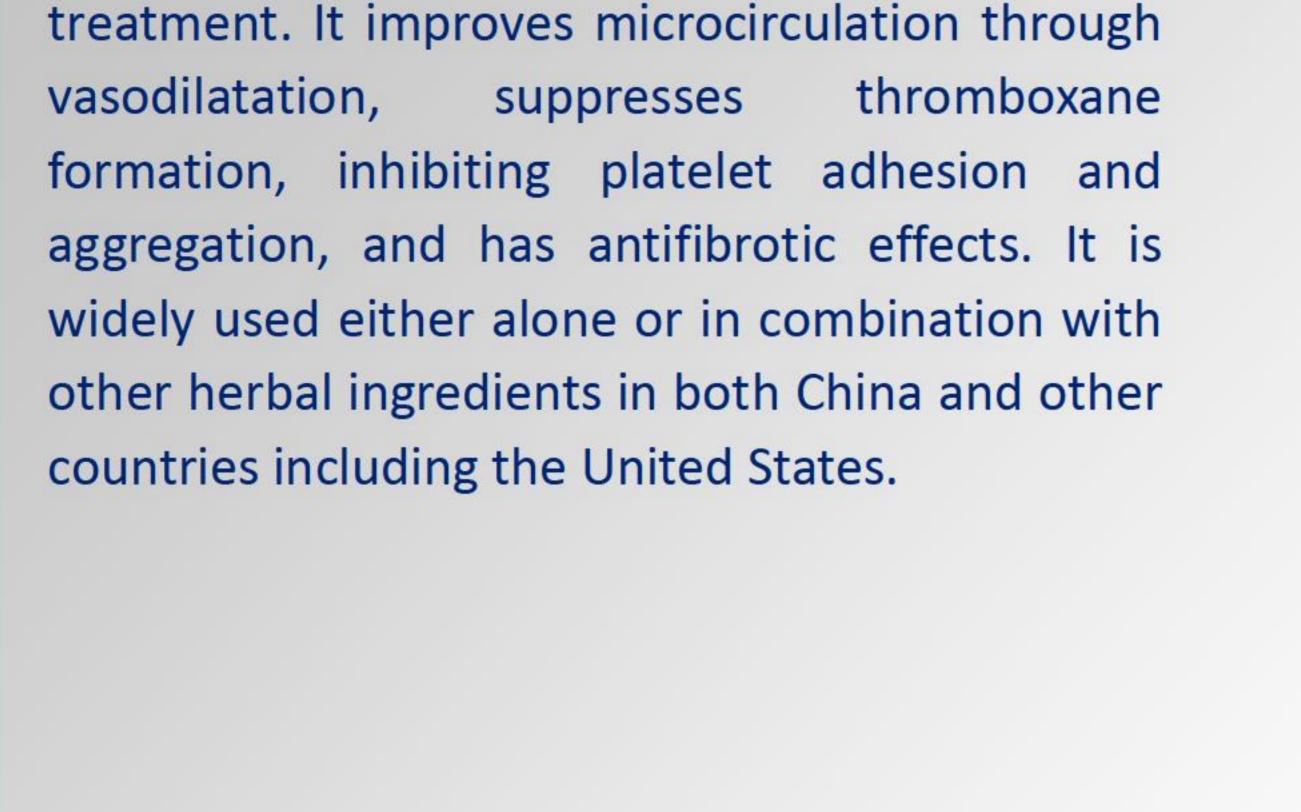
METHOD

Male Wistar rats were submitted to partial ureteral unilateral obstruction and right nephrectomy (PUONx), divided in two groups and studied along eight weeks:

- Control (PUONx): PUONx+ control vehicle (saline)
- > Salvia miltiorrhiza (PUONx-S): animals received orally Salvia miltiorrhiza aqueous extract (100 mg/kg b.w.) daily by gavage

We measured 24h-proteinuria, microalbuminuria and urine NGAL (neutrophil gelatinase associated lipocalin). Histopathologic study of obstructed kidneys was made.

The statistical significance of the results was evaluated by ANOVA followed by Tukey test. Values were expressed as mean ± SD.

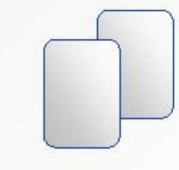


Aqueous extracts of Salvia miltiorrhiza Bunge

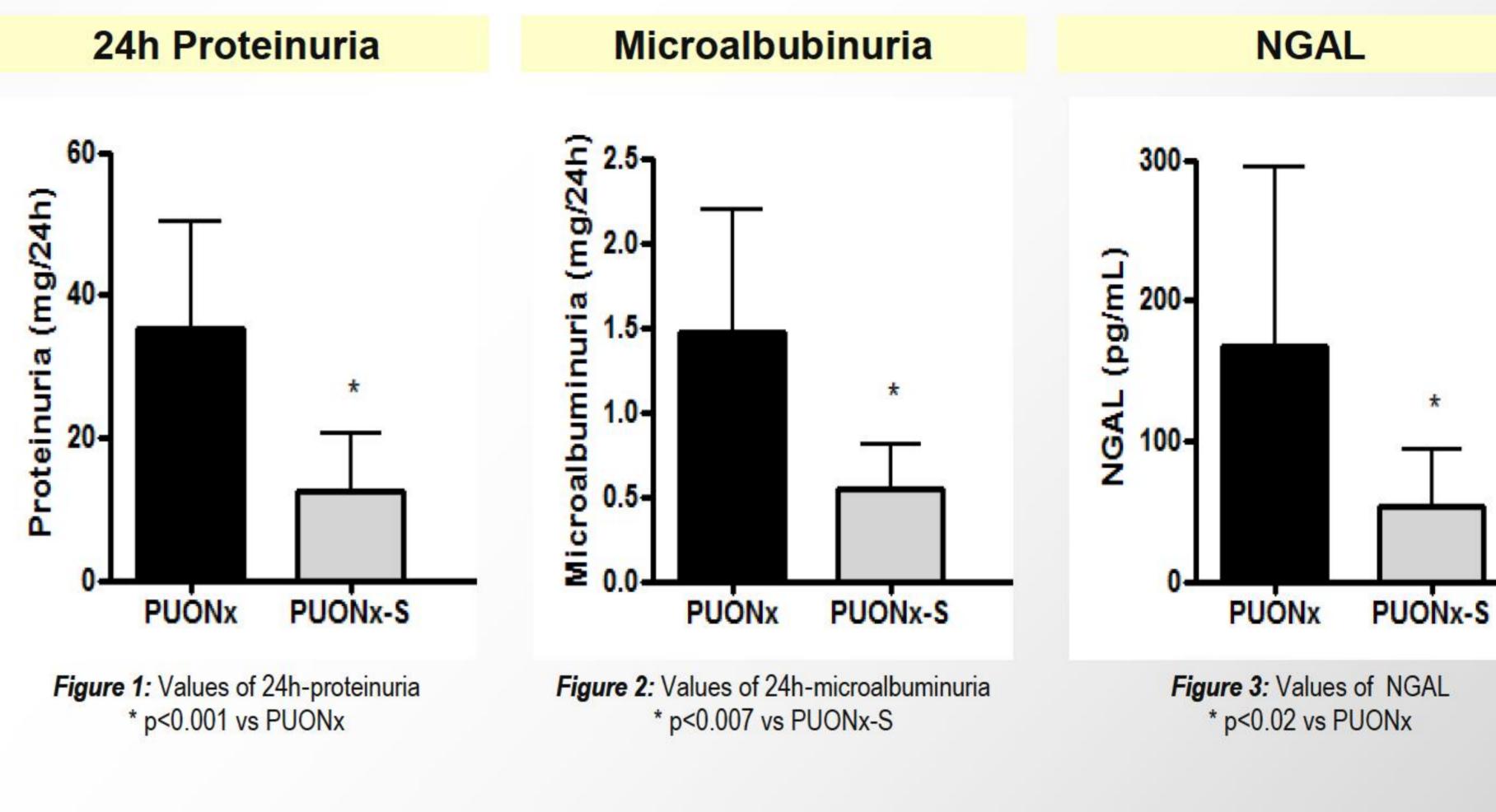
root (S. miltiorrhiza) is one of the most

commonly used traditional Chinese herbs in

cardiovascular and chronic renal diseases



RESULTS





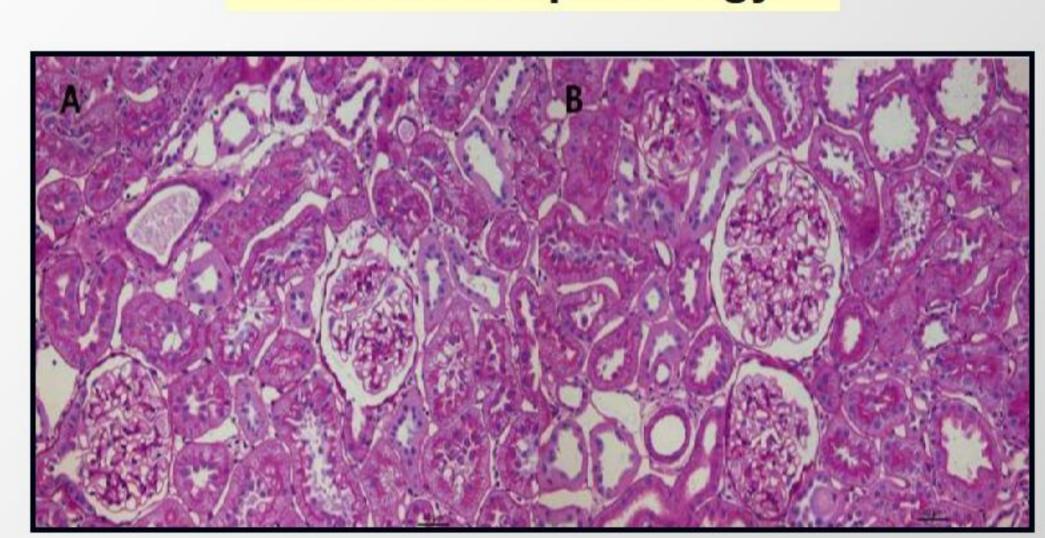
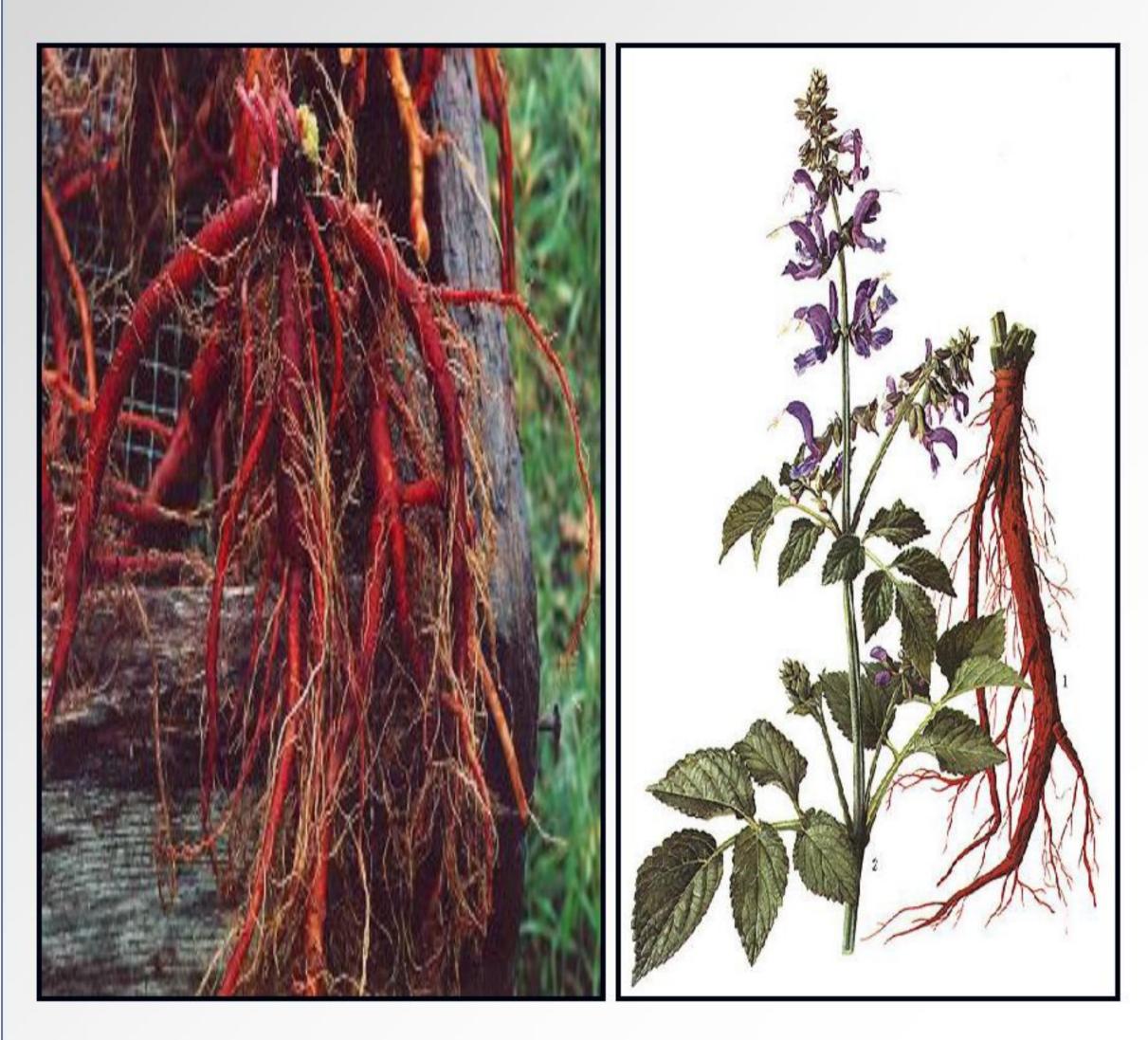


Figure 4: Renal histopathology: A) PUONx; B) PUONx-S.



Salvia miltiorrhiza Bunge root (S. miltiorrhiza)

AIMS

The aim of this study was to investigate the effects of aqueous extracts of Radix *Salvia miltiorrhiza* Bunge in an experimental model of partial ureteral unilateral obstruction in rats.

CONCLUSIONS

Salvia miltiorrhiza had a beneficial effect on renal function of treated PUONx animals evidenced by normalization of proteinuria and lower urinary levels of NGAL. Our results suggest that Salvia miltiorrhiza aqueous extracts could be beneficial in the treatment of partial ureteral unilateral obstruction.

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