

ABSTRACT

Aim:

In order to scientifically appraise some of the anecdotal, folkloric, ethnomedical uses of *Rubia cordifolia* Linn., the present study was undertaken to examine the diuretic and antiurolithiatic activity of hydroalcoholic extract of roots of *Rubia cordifolia* Linn.

Material and methods:

Wistar albino rats were used for evaluation of diuretic and antiurolithiatic activity. Antiurolithiatic effect was evaluated by using calcium oxalate lithiatic model in which ethylene glycol and ammonium chloride was used to induce hyperoxaluria.

Results:

The result indicates that hydroalcoholic extract of roots of *Rubia cordifolia* possess significant ($p < 0.01$) and dose dependent diuretic and antiurolithiatic activity. It found to reduce and prevent the growth of urinary stones.

Conclusion:

Result suggested that the hydroalcoholic extract of roots of *Rubia cordifolia* Linn. showed potent diuretic and antiurolithiatic activity at selected dose levels. The antiurolithiatic effect is mediated possibly through a diuresis, lowering of urinary concentration of stone forming constituents and risk factor, anti-inflammatory, antioxidant effects.

Key words: Diuretic, Antiurolithiatic; *Rubia cordifolia*; Root.