

Invitro antibacterial activity of plant extracts of cissus quadrangularis on methicillin resistant staphylococcus aureus (mrsa).

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ABSTRACT

The rise in antibiotic resistant bacteria over the past decades has resulted in renewed interest in alternative medicine. Our study brings to focus the qualitative antibacterial sensitivity profile of *Cissus quadrangularis* on Methicillin Resistant *Staphylococcus aureus* (MRSA). Antibacterial activity of Aqueous, ethanol, chloroform and hexane extracts of *Cissus quadrangularis* was investigated using Agar gel Disc-diffusion method. Aqueous and hexane extracts showed no inhibitory activity against MRSA while ethanol and chloroform extract showed less inhibition against MRSA with the zone of diameter recorded 10 mm and 9 mm respectively, comparatively less significant than the standard antibiotic. Although our findings are quite unexpected, the investigation brings to focus that the plant needs to be considered and carefully controlled for experimental analysis in future studies. Though antibacterial profile does not show significant results, the ethnobotanic survey claims the plant to have many therapeutic characteristics. Further studies like free radical scavenging and anti-inflammatory studies would be carried out in near future.