

ABSTRACT

The establishment of resistance pathogens is a major worry in the chemotherapeutic treatment of bacterial, fungal, and protozoal infections. The most typical fungal infections, run a higher chance of developing a serious illness from specific fungal infections if immune system is compromised. Despite the fact that more than 20 different *Candida* yeast species have the potential to infect humans, *Candida albicans*, *C. glabrata*, *C. parapsilosis*, and *C. tropicalis* are the most prevalent pathogens. A recently identified fungus called *Candida auris* is difficult to identify and commonly resistant to various antifungal drugs.

In these situations, natural potentials and treatments may guide us towards a life-saving drug with affordable and minimal side effect features against highly resistant microbes, their complicated molecular structures and different severe side effects of synthetic drugs. Different scientists at various times have already reported *Vitex negundo* and *Thevetia peruviana* as promising plants. Our work also demonstrates their efficacy against a fungus strain that is now giving headache to researchers and cancer patients.

We have demonstrated that these two plants increased their combined activity both intra and inter solvent of Chloroform, ethanol & methanol at time of treated with selected concentration and effectively 0.8 mg/ml concentration in both MIC and Zone of Inhibition studies. To provide a more precise outcome, these findings require additional more future research and other confirmatory evaluative study. These findings could also open up new avenues for antimicrobial research and drug-drug interaction in the near future and development of antimicrobial drugs.

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