

A Study on Oral Candiadis and probiotic activity against the isolates among the Leprosy patients

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From National Conference on Natural Products as therapeutics, Medical Microbiology, Nanobiology and System biology: Current Scenario & Emerging Trends, 'NATCON-2014'.

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18-19 September 2014.

American J of Bio-pharm Biochem and Life Sci 2014 September, Vol. 4 (Suppl 1): P 66

ABSTRACT

Leprosy, also known as Hansen's disease, is a chronic infectious disease that primarily affects the skin, the peripheral nerves, the upper respiratory tract, and the eyes. The causative agent is an acid-fast bacterium *Mycobacterium leprae*. In the present study fifty volunteer leprosy patients of Government Leprosy Rehabilitation Centre were selected for oral sample collection. The study population includes 33 male and 17 female leprosy patients. Oral swabs were collected to identify the oral candidiasis, among leprosy patients. *Candida albicans* and *C. tropicalis* were isolated from oral samples using Hichrome Candida agar. *C. albicans* was found to be highest in occurrence compared to *C. tropicalis* leading to the major cause of oral condition. Antibiotic sensitivity test was done by Kirby-Bauer method using selected antibiotics such as Ketaconazole, Itraconazole, Fluconazole and Co-trimazole against oral candidiasis. All the fungal isolates were found to be multi drug resistant due to continuous intake of chemotherapeutic drugs that favours the state of tolerance to such antibiotics. In the present study Probiotic exhibited significant sensitivity and paves the way to reduce the intensity of pathogenesis caused by candida. Probiotic act as an effective therapeutic tool to fight against candidiasis.