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Anti-mycobacterial activity of some medicinal plants used traditionally by tribes from Madhya Pradesh, India for treating tuberculosis related symptoms

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Abstract

Ethnopharmacological relevance:

Tuberculosis (TB) is one of the highly infectious disease caused by the bacterium *Mycobacterium tuberculosis* (*Mtb*). Several medicinal plants are traditionally used by the tribal healers of some tribal pockets of Madhya Pradesh (M.P.), India in the treatment of various ailments including TB related symptoms. The information of traditional knowledge of plants is empirical lacking systematic scientific investigation.

Aim of the study:

To provide a scientific rationale for the traditional uses of some medicinal plants in treating prolonged cough, chest complaints and TB by ethnic groups in four districts of the state of M.P., India. The anti-mycobacterial activity of these plants was also investigated against multidrug-resistant (MDR) strains of *Mtb*. The active plant extracts were also assessed for general cytotoxicity by human monocytic leukemia cell line, THP-1 macrophages.

Materials and methods:

Semi structured interviews and guided field-walk methods were used to gather information on medicinal plants used by the tribal traditional healers. The study was carried out in the

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