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Ethnobotanical study of medicinal plants used by the local people living in and around Lawachara National Park

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Ethnobotanical study of medicinal plants used by the local people living in and around Lawachara National Park was conducted between the periods of December 2014 to November 2015. The main purposes of the study were to record and document plant species used for the treatment of various ailments and to find out the level of consensus between informants regarding the uses of plants for particular ailment categories. A total of 123 medicinal plant species with 244 formularies to treat 53 ailments have been recorded. For each species scientific name, local name, family, parts used, ailments and application modes have been presented. Leaf is the dominant parts used followed by fruits, root and rhizome, whole plants, seeds, stem, bark, leaf and bark, petiole, bulb, peduncle, latex and flowers. Oral application is the main mode treatment in the study area and followed by external application. Maximum formularies were found in the six ailment groups including gastrointestinal complain, diarrhea and dysentery, fever and cough, dermatitis, jaundice and impotence. Maximum Fic values (more than 0.80) obtained in case of cut and wound, jaundice, respiratory related ailments, diabetes, diarrhea and dysentery, anthelmintic, gastrointestinal complaint, impotence, dermatitis and high blood pressure. *Chromolaena odorata*, *Cericoides campanulata*, *Oroxylum indicum*, *Cuscuta reflexa*, *Averrhoa carambola*, *Cajanus cajan*, *Adhatoda zeylanica* and *Citrus aurantifolia* showed 100% FI values. *Litsea glutinosa*, *Mikania cordata*, *Ocimum sanctum* and *Azadirachta indica* were scored maximum Cf values. It is recommended that species showed high Fic, FI and Cf values could be used for further ethno-lead phytochemical analysis to find active compounds from plants.

Biography

Mohammad Zashim Uddin has obtained his PhD and trained from USA on Tropical Biodiversity. His current position is Professor in the University of Dhaka and supervised 27 MS research students and presently guiding one PhD student. He has published 57 research articles in different scientific journals and he is the recipient of numerous awards and grants. He has participated at least 43 events of training program/workshop/ international conference. He has also served as Biodiversity Expert in 22 research projects in Bangladesh. His current research focuses are on threatened ethnomedicinal plants and conservation of forest biodiversity.

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