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Pharmacological Activities and Potential Uses of Cyperus Rotundus: A Review

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Abstract : Cyperus rotundus (Cyperaceae), a medicinal herb, is being traditionally used as a home remedy for the treatment of various clinical conditions like diarrhea, diabetic, pyretic, inflammation, malaria, and for treating stomach and bowel disorders. Its current status is one of the most widespread, troublesome, and economically damaging agronomic weeds, growing wildly in various tropical and sub-tropical regions of the world. Tuber and rhizomes of Cyperus rotundus possess a higher concentration of active ingredients in the form of essential oils, phenolic acids, ascorbic acids and flavonoids, responsible for its remedial properties. Exploitation of any medicinal plant application depends on the crucial and comprehensive information about the therapeutic potential of a plant. Researchers have evaluated and characterized the significance of Cyperus rotundus as an anti-androgenic, anti-bacterial, anti-cancerous, anti-convulsant, anti-diabetic, anti-diarrheal, anti-genotoxic, anti-inflammatory, anti-lipidemic, anti-malarial, anti-mutagenic, anti-obesity, anti-oxidant, anti-uropathogenic, hepato-, cardio-, neuroprotective, and nootropic agent. This paper comprises a broad review to summarize the current state of knowledge about chemical constituents, potential economic uses and therapeutic aspects of Cyperus rotundus that will aid in the development of bioethanol and modern herbal medicine through latest technologies that will promote the ability of this plant in the cure of many clinical disorders.

Keywords : purple nutsedge, chemical composition, economic uses, therapeutic values, future directions
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