

عنوان مقاله:

The important medicinal and industrial properties of *Calotropis procera* (Aiton) W.T

محل انتشار:

سومین کنگره بین المللی و چهارمین همایش ملی زیست فناوری گیاهان دارویی و قارچهای کوهی (مجازی) (سال: 1400)

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خلاصه مقاله:

Calotropis (*Calotropis procera* (Aiton) W. T. Aiton) is a spreading shrub or medium-sized tree reaching ۲.۵ to ۶ m in height. It has a deep taproot, ۳-۴ m deep, and a secondary root system with woody lateral roots that may rapidly regenerate adventitious shoots when the plant is injured. The stems are crooked and covered with a fissured corky bark. The grey-green leaves are ۱۵-۳۰ cm long and ۲.۵-۱۰ cm broad and have a succulent and waxy appearance, hence the name *procera*, which means wax in latin. Compounds derived from the plant have been found to have emetic-cathartic and digitalic properties. The principal active compounds are asclepin and mudarin. Other compounds have been found to have bactericidal and vermifugal properties. The root bark is an emetic. An infusion of bark powder is used in the treatment and cure of leprosy and elephantiasis. The extremely poisonous roots are used in the treatment of snakebites. The leaves are used for the treatment of asthma. The milky sap is used as a rubefacient and is also strongly purgative and caustic. The latex is used for treating ringworm, guinea worm blisters, scorpion stings, venereal sores and ophthalmic disorders, it is also used as a laxative. The local effect of the latex on the conjunctiva is congestion, epiphora and local anaesthesia. The latex contains a proteolytic enzyme called calotropaine. The flower is digestive and tonic. It is used in the treatment of asthma and catarrh. The twigs are applied for the preparation of diuretics, stomach tonic and anti-diarrhoeics and for asthma. Also used in abortion, as an anthelmintic, for colic, cough, whooping cough, dysentery, headache, lice treatment, jaundice, sore gums and mouth, toothache, sterility, swellings and ulcers. Also, stem fibre used for various purposes, such as for making ropes, to form cheap cots, gunny bags, bow strings, fishing nets, and in the manufacture of paper, pulp and duplicating stencils.

کلمات کلیدی:

Calotropis procera (Aiton) W. T. Aiton, medicinal composition, industrial properties

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