

Curative effects of the aqueous extract of *Enantia chlorantha* Oliver(Annonaceae) on chronic gastric ulcers and "hardhealed" gastric ulcers in rats

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Gastric ulcers are one of the most prevalent gastrointestinal disorders which affect people during their life. The regimen used to attend these ulcers remains problematic since there is still no complete cure and some drugs become ineffective due to the resistance of *Helicobacter pylori* to antibiotics. Conventional medicine with synthetical drugs presents numerous limits, and the concomitant use of others drugs can also delay the healing process. Given this situation, phytotherapie is an alternative much appreciated to resolve these problems. This study was done to investigate the ability of *Enantia chlorantha* aqueous extract to heal chronic gastric ulcers and to prevent the delay in chronic ulcer healing induced by indomethacin. Animal's models were used to produce chronic gastric ulcer; « hardhealed» gastric ulcers were produced with indomethacin. Mucus secretion and oxidative stress parameters were measured. Macroscopic and histological assessment of ulcer healing were done. Ulcer healing rates with the extract were very high following treatment. Administration of plant's extract significantly inhibited the adverse effect of indomethacin in « hardhealed» ulcers. Microscopy showed reparation of the mucous membrane. Extract restored values of gastric mucus production. The evaluation of stress oxidative parameters show this plant's extract decreased MDA levels and raised antioxidant enzyme levels. *E. chlorantha* accelerates the spontaneous healing of acetic acid-induced chronic gastric ulcers, and prevents the delay in chronic gastric ulcer healing caused by indomethacin. An improved traditional medicinal drug with this plant could be beneficial for people suffering of gastric ulcers, and "hardhealed" ulcers.

Biography

Dr Mesmine has a PhD in Animal Biology, option Physiology that she obtained after many years of struggle due to the lack of material. She is a researcher since 2018 at the Institute for Medical Research and Medicinal Plant Studies (IMPM)/-Cameroon. She integrated a team and projects to work on antioxidant, anti-inflammatory, antiulcers, anticancers, anti-gastrointestinal diseases and toxicity, of medicinal plants and mixture. Her Ph.D thesis **work** was based on the cytoprotective, curative, antioxidant effects of a medicinal plant and the evaluation of toxicity profile of that extracts on some reproductive parameters. She is a part time teacher in higher university institutes.

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