Development of a suppositoires pilot batch of leaves and stems of *Artemisia annua* grown in Cameroon

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**Malaria** is the most deadly disease that concerns mostly African children under the age of five. Its difficult treatment because of drug resistance to conventional molecules leads to the use of Artemisinin-based Combination Therapy (ACT) recommended by WHO. Several studies, for instance those of Chougouo and al. showed that the infusion of *A. annua* is more efficient than ACT after 7 days of treatment, but hardly accepted by children mostly those under 2 years old because of the quantity to administer. The present study is to put in place a more acceptable dosage form for children suppositories made from *A. annua* grown in Cameroon. To evaluate its quality, the powder of leaves and stems of *A. annua* has been submitted to physicochemical analysis. The particle size conducted by the sieve method and laser diffraction. Artemisinin, determined by TLC - densitometry, then read through MESURIM software. Entire flavonoids titrated by Aluminum chloride. The formula of medicines established and suppositories submitted to pharmacotechnical tests. The powder obtained, of bitter taste, greyish-green, with characteristic odor (camphor), is homogeneous with 56,37 % of particles in the sieve of diameter over or equal to 63 μm. The artemisinin and entire flavonoids contents are respectively of 5 mg/g and 0,43 mg equivalent to quercetin per Gramm of dry matter. 250 mg suppositories of active principle have been made knowing that, 1g of *A. annua* powder moves 0,72 g of Suppocire C. They are dark-green, shiny, smooth, barrel-shaped. Their average weight is 2,15 g, disintegration time 8 min 16 s, the fusion point 35,7 °C. The made *A. annua* suppositories, are in conformity with european pharmacopoeia. The suppositories will contributed to a better treatment of malaria among children.

**Biography**

Chougouo Kengne R.D has completed her PhD; She is a Pharmacist Officer and Researcher (CER) at the University Mountain Cameroon. She has published more than 20 papers in reputed journals.

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