Effects of sacoglotis gabonensis (baill.) urb. in the management of infantile anemia due to plasmodial and diarrheal infections

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Abstract
Statement of the Problem : Anemia is one of the most common public health problems in the world, affecting particularly children under 5 years of age with a prevalence in Africa of 60.2%. Anemia is characterized by the deficiency of red blood cells or haemoglobin in the blood due to malaria, diarrhoea and iron deficiency in poor countries. Poverty forces people to use traditional medicine for its management. In this work we are evaluated the in vivo anti-anemic activity and in vitro antiplasmodial and antibacterial activities of the decoction of the bark of S. gabonensis. Methodology: The extract was prepared according to the traditional method and the phytochemical analyzes were made according to the standard methods. Anaemia was induced in rats by intraperitoneal administration of phenyl hydrazine at the dose of 40 mg / kg / day for two days. The decoction was given orally to anemic rats at 207.57 mg/kg body weight, once a day for 14 days. Microdilution was used to evaluate its efficacy against strains of Plasmodium falciparum (3D7) and gastroenteritis. Findings: Phytochemical screening indicated the presence of alkaloids, phenolic compounds, coumarins, flavonoids, saponosides and tannins. The decrease of haematological parameters (haemoglobin, red blood cells, hematocrit) induced by phenylhydrazine were significantly (P <0.05) restored after 7 days of treatment compared to the negative control group. The extract exhibited good antiplasmodial activity with IC₅₀ = 16.39 ± 2.34 μg/mL and moderate activity on E. coli, E. aerogenes, S. flexneri and K. pneumoniae with MIC ≤1.024 μg/mL. This study confirms the use of the stem bark of gabonensis in traditional medicine and in the management of infantile anemia.

Biography:
Ms Beack Bayengue sandrine Suzanne is since 2016 Researcher at the Institute of Medical Research and Medicinal Plant Studies (IMPM) of the Ministry of Scientific Research and Innovation of Cameroon. She is also ending PhD student at the University of Douala. She is interested by child health and would like to contribute to the valorization of Cameroonian medicinal plants by showing the therapeutic effects of these infrastructures are insufficient. Her work is currently focused on finding medicinal plants with multiple therapeutic properties against childhood deficiencies (anemia) and diseases. She has published 4 papers in reputed journals.

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