

Antimicrobial, phytochemical analysis and wound healing activity of Couroupita guianen.

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ABSTRACT

Couroupita guianensis is a medical plant, used in several diseases like skin diseases antibiotic, antifungal, antiseptic and analgesic qualities. The juice made from the leaves is used to cure skin diseases. The inside of the fruit can disinfect wounds and young leaves ease toothache. The methanol extract showed high antibacterial activity against Staphylococcus aureus, Bacillus subtilis, E. coli, Klebsiella. The crude methanol solvent extract showed antifungal activity against Aspergillus flavus, A. niger and Pencillium citrium. Four different compounds were obtained from TLC analysis among the four compounds two of them were major fraction, which contains higher Rf values. One of the major compound was partially purified by scrapping and elution method. The wound was created of about 500 mm² diameter on the dorsal back of testing rats. The C. guianensis water extract ointment treated wounds was compared with control and herbal ointment. The tensile strength indicates better wound healings stimulated by applied herbal formulation. Wherever created the wound, the scar areas were cured with in nine days of period.