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A literature review on therapeutic uses of honey in wound healing

Henok Alebachew Mekelle University, Ethiopia

Identification of mineral and chemical constituents present in commercially available Rasahastra drugs named 'Manikya Rasa' (MR), 'Abhrak Bhasma' (AB) and 'Abhrak Bhasma' (ABS) - prepared in the laboratory were performed using XRD, FTIR, XRF and AAS. The presence of organic constituents was established by thermo gravimetric analysis. Since only MR had significant organic matter content MR was sequentially extracted in to its hexane, dichloromethane and methanol. MR and solid residue, AB, ABS and aqueous extracts of plant constituents of ABS - Ficus benghalensis and Ricinus communis were evaluvated for their antimicrobial activity against Pseudomonas aeruginosa (ATCC-27853), Escherischia coli (ATCC 25922), Staphylococcus aureus (ATCC 25923), Staphylococcus aureus – MRSA and Candida albicans (ATCC 90028) using well diffusion assay, a modified version of the same and the agar dilution assay. Mineralogical analysis revealed a number of minerals including mica, cinnabar, chalcopyrite, sphalarite, arsenolite as constituents in MR while AB and ABS consisted of altered mica and iron oxides. All the drugs showed minor amounts of toxic elements and significant antimicrobial activity at least against two or more microorganisms, while AB and ABS were inactive against all the microorganisms. The most susceptible bacterium was S. aureus, while none of the tested component showed activity against C. albicans. This study reveals that antimicrobial activity may be augmented with some minerals with the combinations of organic matter, as opposed to having only altered mica and iron oxides.

Biography

Henok Alebachew completed his B Pharm at the age of 22 years from Mekelle University School of pharmacy. He has been working in Food Medicine and Health Care authority of Ethiopia as a physico chemical analyst for three years and ten months in an ISO 17025 accredited laboratory, then joined Billim Pharmaceuticals and working as a medical representative.

alhenok@hotmail.com