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Ayurveda for hair

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This paper focuses on the role played by *Ayurveda* in hair care and hair treatments. *Ayurveda*, the 20,000 year old medical science from India has made significant contribution to the hair management industry. This paper focuses on both the routine hair care and the hair related disorders. The reasons for various types of hair loss and other hair disorders, as explained by *Ayurveda* are an important part of this paper. Various important features of *Ayurveda* like Prakruti, Panchakarma, Thala Pothichil, Nasyam, Abhyangam, etc with respect to hair care have been explained. The role played by Ayurvedic external preparations and internal medicines in the treatment of various hair related disorders has been discussed elaborately. This discussion takes into account both the Shastrik preparations, referred by the ancient Ayurvedic scholars and the proprietary formulations recently developed. This paper also lists out around 20 important Ayurvedic herbs that play a major role in general hair care and hair treatments.

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Effect of nine essential oils from Cameroon and their combination against Infant diarrhoea induced by bacteria

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Diarrhoeal diseases are responsible for childhood death worldwide; in Cameroon, 36.9% of them are induced by bacteria. Taking into consideration the problems of bacterial resistance, it becomes imperative to look for efficient alternative antibacterial substances. Our work consisted of determining bacteria linked to infant diarrhoea and to evaluate the antibacterial activity nine essential oils of plants on targeted stains. A retrospective study of five weeks about infant diarrhea carried out in C.H.U, Yaounde enabled us to collect the responsible bacterial stain. Our essential oils samples used were obtained by steam distillation of 9 plants (*Eucalyptus globulus*; *Cymbopogon citratus*; *Xylopia aethiopica*; *Thymus vulgaris*; *Ocimum canum*; *Cananga odorata*; *Citrus medica*; *Citrus paradise* and *Citrus reticulata*) using the clevenger apparatus. Those that showed bioactivity were analyzed by GC and then GC/MS. Then, their bioactivity was tested by diffusion and microdilution method on some strains of bacteria origin for childhood diarrhea (*E. coli*, *Salmonella*, *Staphylococcus aureus*, *Bacillus cereus*, *Shigella flexneri* and *Proteus vulgaris*). Three active essential oils (*Cymbopogon citratus*, *Eucalyptus globulus* and *Thymus vulgaris*) were combined with *Cymbopogon citratus* as common base in proportions 2/1; 1/1; 1/2 and retested against the bacterial strains cited. The results obtained showed that 10, 8% of childhood diarrhoea was caused by bacteria *E. coli* (9.0%) and *Salmonella spp.* (1.9%). The chemical analysis of the active essential oils showed that most of actives essential oils contain hydrocarbons monoterps and exogenous monoterps instead of *Eucalyptus* and *Cananga* that showed exogenous monoterps and sesquiterpens in their composition. The active essential oils were less active (MIC between 25 and 0.39 mg/mL) than combinations (MIC between 6.25 and 0.195 mg/mL). The most active essential oil was that of *Cymbopogon citratus* and that of *Citrus medica* was the least active, whereas the most active combinations were those of *Thymus*. The efficiency of *Thymus* combinations Th1 and Th2 (MIC between 1.562 and 0.195 mg/mL) on *Salmonella*, *Staphylococcus aureus* strains showed that they can be used respectively as potential drugs or conservatives in aromatherapy and food industry in order to limit bacterial contamination.

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