Comparative determination of pesticide residue in anti-diabetic herbal products marketed in India

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Herbal formulations are getting popular throughout the world and commercialized extensively for various medicinal properties. WHO has emphasized the need for quality assurance of herbal products, including testing of pesticides residues. In view of WHO guidelines, polyhedral drugs used in herbal formulations were collected from local market, for testing pesticides residue. Therefore, in the present case, we have examined few local samples of certain herbal product. The medicinal plants materials are liable to contain pesticide residue, which accumulate from agriculture practices such as spraying treatment of soils during cultivation and administration of fumigants during storage. It is therefore recommended that every country producing medicinal plant material should determine the pesticide residue. WHO has established the Maximum Residue Limit (MRL) in medicinal plants. In this research the pesticide residue in different anti-diabetic herbal formulations were determined by capillary gas chromatography. A varian 6890 N gas liquid chromatography equipped with a 230 m X 0.32 mm, I. d. glass column packed with SE-52, a constant current 63 Ni electron capture detector was used. The operating conditions were as follows: Injection volume was 2 µl; injector temperature, 200 °C; oven temperature, 160 °C; detector, mobile phase A: 0.1% aqueous formic acid solution was used. From the result of determination of pesticide residue in marketed anti-diabetic herbal formulation it was observed that the pesticide residues in formulations were present as in AD1 (dimethoate-0.59 ppm methyl parathion-0.48 ppm, methyl chlorpyrifos-0.59 ppm), AD2 (methyl parathion-0.49 ppm), AD3 (methyl parathion-0.39 ppm), AD4 (dicofol-0.37 ppm), AD5 (dicofol-0.27 ppm) which could produce ill effect on health of patient, using this herbal formulation.

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5 Season/Element applications of herbal healing

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According to traditional Asian philosophy and specifically Chinese medicine, healing on a deep level involves integrating the forces of nature: yin/yang-gravity/electromagnetic forces and the 5 seasons more popularly called the 5 elements into each person's life. Every person embodies a unique manifestation of these movements. Understanding excesses and deficiencies according to one's 'constitution and condition' allows us to make recommendations for a person at the source of any symptom they present. The emotional tendencies of each movement will be described so participants can assess themselves and their clients. Emotions are the strongest form of energy available to our bodies. This workshop will teach us how to use emotions instead of them using us. Specific herbs categorized by their seasonally emotional effects can be used to tone or disperse important emotional lessons and healing.

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