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Bio-enhancer from Mother Nature and their approach in modern medicine

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Bio-enhancers or bio-potentiators are a revolutionary concept in modern medicine. Bio-enhancers are such agents, which by themselves are not therapeutic entities but when combined with an active drug lead to the potentiation of the pharmacologic effect of the drug. Such formulations have been found to increase the bioavailability/bio-efficacy of a number of drugs even when reduced doses of drugs are present in such formulations. Evidence has been obtained for such classes of drugs which are poorly bioavailable, require prolonged therapy and are highly toxic and expensive. These are phytomolecules development of which is based on ancient knowledge of Ayurveda. They augment the bioavailability or biological activity of drugs when administered at low doses. They reduce the dose; shorten the treatment period. The treatment is made cost effective, minimizing drug toxicity and adverse reactions. When used in combination with number of drug classes such as antibiotics, anti-tuberculosis, antiviral drugs they are quite effective. Oral absorption of vitamins, minerals, herbal extracts, amino acids and other nutrients are improved by them. They act through several mechanisms which may affect mainly absorption process, drug metabolism.

Biography

Patil Minal S is an Assistant Professor of Pharmacognosy, DCS's Annasaheb Ramesh Ajmera College of Pharmacy, India. She has completed her BPharm from Pune University & MPharm from North Maharashtra University, Jalgaon and pursuing PhD from North Maharashtra University, Jalgaon. She has 6 years experience in teaching of Pharmacognosy. She has published research and review papers in some national and international journals with having good impact factor. She has also presented posters and participated in many global national as well as international conferences and seminars. She has represented university at state level inter university research convention two times from pharmacy teacher category. She is also Life Member of APTI & handled various mini-projects of BPharm students.

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