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A review on endocrine disruptors and their possible impacts on human health

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Endocrine disruptors is an area of research that has been going on for more than a decade, although their effects have been the most discussed topic since the 1940's. This is due to the harmful effects of endocrine disruptors which are putting at risks the developing and low lying economic countries by creating a vulnerable situation for human health. Endocrine disruptors are one of the major toxicants that cause varieties of health complications ranging primarily from disruption of the homeostasis of the hormone system to disruption of nervous system, thus affecting a major part of human body. At present, people can get exposed to endocrine disruptors everywhere, ranging from drinking water to consumer products, drugs, foodstuffs etc. An alarming feature of the endocrine disruptors is that these groups of chemicals have a high degree of stability with low degree of degradability which helps their presence in the environment for a long period of time in their original form. Thus, the hazardous effect of endocrine disruptors lies in their exposure to the environment as waste which can serve as a major concern of public health. This paper, based on extensive literature survey, briefly studies the progress of endocrine disruptors mainly in human to provide information concerning causative substances, mechanism of action, ubiquity of effects and their important issues. It also reviews the current knowledge of the potential impacts of endocrine disruptors on human health so that the effects can be known and remedies applied for the problem as soon as possible.

Biography

Eva Rahman Kabir has completed her Ph.D. in 2010 from the Institute of Business Administration, University of Dhaka. She is the Head of the Department of Pharmacy, BRAC University, a leading private university in Bangladesh. She has published more than 14 papers in reputed journals and is involved in organizing seminars and publishing newsletters at the department, apart from the usual administrative responsibilities. The two co-authors of the paper are Monica Sharfin Rahman and Imon Rahman, both lecturers of the Department of Pharmacy, BRAC University, Dhaka.

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