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Environmental exposure to persistent organochlorine pesticides and risk of breast cancer in Indian females

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In India, breast cancer is the most common type of cancer among women, although the incidences are very low i.e., 19 per 100,000 compared to the United States and United Kingdom, where the incidence rates are quite higher i.e., 101 in United States and 87 in the UK. But the death per incidence ratio is highest in India is about 50%, followed by 30% in China and 18% in the United States. The etiology remains, unknown but environmental, genetic, nutritional and hormonal factors are established as contributory risk factors. The majority of breast cancers have been proposed to be of environmental origin. Among the environmental factors organochlorine pesticide has been suggested to play a causative role in the etiology of breast cancer. Organochlorine pesticides are widely dispersed and persist in the environment, act as xenoestrogen, get stored in adipose tissues and act as tumor promoter. Keeping all the views in mind, we have planned a multicentric study to evaluate the risk of breast cancer in different regions of India. Knowledge and awareness of breast cancer due to pollution is yet to accomplish desired goals and impact, therefore urgent intervention by the relevant bodies to educate and enlightening of the females is required.

Biography

Madhu Anand is a Toxicologist, who has been a Postdoctoral fellow in the Department of Chemistry at Dr. B R Ambedkar University, Agra since 2011. She obtained her PhD degree from Indian Institute of Toxicology Research, Lucknow, in Life Sciences and worked in the field of environmental pollution and human health for 12 years at the Indian Institute of Toxicology Research, Lucknow and Dr B R Ambedkar University, Agra. Her recent efforts have focused on air pollution and female health. She has published more than 15 papers in reputed journal and serving as a Reviewer.

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