

## **Dietary Exposure to Pesticide Residues by Various Physiological Groups of Population in Andhra Pradesh, South India**

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**Abstract :** Dietary exposure assessment of fifteen pesticide residues was done in Andhra Pradesh. Twelve commonly consumed foods including water, which were representative of the diet, were collected, processed as table ready and analysed for the presence of various Organochlorines, organophosphates and synthetic pyrethroids. All the samples were contaminated with one or more of the 15 pesticide residues and all of them were within the MRLs. DDT and its isomers, Chlorpyrifos and Cypermethrin were frequently detected in many of the food samples. The mean concentration of the pesticide residues ranged from 0.02  $\mu\text{g kg}^{-1}$  to 5.1  $\mu\text{g kg}^{-1}$  (fresh weight) in the analysed foods. When exposure assessments was carried out for different age, sex and physiological groups it was found that the estimates of daily dietary intakes of the analysed pesticide residues in the present study are much lower than the violative levels in all age groups that were computed.

**Keywords :** table ready foods, pesticide residues, dietary intake, physiological groups, risk

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