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PERSISTENT ORGANIC CHLORINATED COMPOUND RESIDUES IN THE BREAST MILK OF FEMALE SEASONAL AGRICULTURAL WORKERS IN TURKEY

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Although organochlorine compounds (OCCs) used in industry and agriculture are not produced and not used legally at the present time, they may cause undesirable effects by passing to humans through various routes due to their long-term persistence in the external environment and transmission to babies through breastfeeding. Retrospective descriptive study aimed to investigate organochlorine compounds in women who breastfeed and work as a seasonal agricultural worker (SAW). Retrospective descriptive this study aimed to investigate OCCs in women who breastfeed and work as a SAW. The study is sponsored by Scientific and Technological Research Council of Turkey (TUBITAK) with 114S163 number. It was carried out on 100 women worked as SAW for the last one year. Data were collected a questionnaire by face-to-face interview and analyzed the residues of 27 items of organochlorine pesticides (OCPs), Dichlorodiphenyltrichloroethane (DDT) metabolites and polychlorinated biphenyls (PCBs) from persistent organic pollutants (POPs) in mothers' 50 mL breast milk. Descriptive statistics, Chi square test and correlation analyze were used to evaluate data. Polychlorinated biphenyl (PCB)28 component was determined in almost all women's milk and more than half of collected milk contained Beta-Hexachlorocyclohexane (HCH), PCB52, pp'-Dichlorodiphenyldichloroethylene (DDE), Hexachlorobenzene (HCB), PCB70, pp'-Dichlorodiphenyltrichloroethane (DDT) ve Gamma HCH respectively. Moreover, PCB101, PCB183, PCB118, PCB105, PCB208, PCB170 ve Alfa-HCH components were detected in very few women (2-9 %). It was recommended that necessary legal regulations, education and control studies on health, and follow-up studies investigating health status of mothers and their babies.

Biography

Eroglu is a professor of Obstetric and Gynecological Nursing in School of Nursing. She is interested in women health, reproductive and sexual health, gender (in particular, sexuality, sexual education, fertility, family planning methods, climacteric, pregnancy, breastfeeding, reproductive health of agricultural workers). She has published more than 20 international, 50 national papers in reputed journals and has been serving as an editorial board member of reputed. Presently he has been working at the at the Koç University School of Nursing.

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