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Direct link between exposure to pesticides in food, air and water and prevalence of type 2 diabetes

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A study led by the University of Granada reveals that there is a direct relationship between the presence of Persistent Organic Pollutants in the body and the development of type 2 diabetes, regardless of the patient's age, gender or body mass index.

A study conducted at the University of Granada has revealed that there is a direct relationship between exposure to pesticides (Persistent Organic Pollutants, CPOs) in food, air and water and prevalence of type 2 diabetes in adults, regardless of age, gender and body mass index. These substances tend to concentrate in body fat, and they might be one of the reasons why obese people are more likely to develop diabetes, since the more fat the higher the COP concentrations in the body.

In a paper recently published in the journal *Environmental Research*, researchers demonstrate that people with higher concentrations of DDE -the main **metabolite** in the pesticide DDT- are four times more likely to develop type 2 diabetes than other people. In addition, the risk of type 2 diabetes is also associated with exposure to β -HCH (*beta*-Hexachlorocyclohexane), which is present in the formula of the pesticide Lindano.

A Study with 386 Subjects

To carry out this study, the researchers analyzed the concentrations of a specific group of COPs in the adipose tissue of 386 adult subjects assisted at San Cecilio hospital, Granada, and Santa Ana hospital, Motril, Spain. According to the University of Granada and San Cecilio researcher, Juan Pedro Arrebola, "human adipose tissue (commonly known as "fat") acts as an energy reservoir and has an important metabolic function. However, adipose tissue can store potentially harmful substances, such as persistent organic pollutants (COPs)".

This makes COPs concentrations a useful marker of a subject's exposure to COPs. COPs are a group of chemicals with diverse characteristics which are present in pesticides, industrial waste and building materials. These compounds penetrate the body mainly through food, but also through air or the skin.

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