

URINARY MARKERS/METABOLITES OF EXPOSURE TO CHEMICAL CARCINOGENS - NEW POSSIBILITIES IN PREVENTIVE ONCOLOGY

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We are not aware when, how and how much our body is exposed to chemical carcinogens every day. As a result of such exposure, millions of people fall ill with malignant diseases every year. The objectives of this work are: 1) Determination of the main urinary markers of exposure to the most dangerous chemical carcinogens; 2) Globally raising awareness about necessity of scientific testing chemicals before widespread human use; 3) Introducing the public about ubiquity of: As, Ni, Cr(VI), Cd, Be, and necessity of maximal reducing people's exposure to them. There are well known causal relations between the most dangerous chemical carcinogens and different types of human malignant diseases. Population based studies may determine persons with high concentrations of the urinary markers/metabolites of the most dangerous chemical carcinogens. Then, such selected persons should be removed from such circumstances and/or regularly checked. Better solution is to find out the source(s) of incriminated chemical cancerogens and eliminate or mitigate their emission. These are a kind of (pre)screening (primordial prevention) for persons with high risk of developing malignant diseases causally related to the most dangerous chemical carcinogens.

Keywords: Biomarkers Urine Environmental exposure Xenobiotics Chromatography, high pressure liquid Preventive medicine