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Postmortem and Toxicological Findings in a Series of Furanylfentanyl-Related Deaths

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Introduction

Forensic toxicology is often defined because the discipline of studying under a forensic profile the pathologies induced by xenobiotic. This term comprehends all substances of exogenous origin that don't have a physiological role within the biochemical processes of the organism. Xenobiotic are poisons, drugs, drugs of abuse, toxins, pesticides, chemicals and agrochemicals, doping substances and, in part, food supplements. In the field of forensic toxicology, concepts of poisoning and adverse reaction are encompassed within the concept of intoxication consistent with a unitary criteriological vision; always oriented at resolving a fundamental query concerning the nexus between the action of one or more xenobiotic and therefore the functional and morphological harm on the organism until its death. Substances considered poisons are those capable of causing damage even in low dose. Even drugs, and in any case all xenobiotic, can exert a toxic action for an absolute overdose, for pharmacokineticpharmacodynamics synergies or for endogenous or exogenous factors.

The classification of poisons in Forensic Toxicology is traditionally hooked in to the idea of chemical-physical characteristics of drugs and on the resultant possibility of extractions from biological fluids with a way specific for classes. Therefore they need six groups: 1. Poisons during a gaseous or vaporous state that when inhaled cause intoxication carbon monoxide, hydrogen sulphide, ethylic ether, chloroform etc.; 2. Poisons during a liquid state susceptible to volatility benzene and derivatives, glycols, aldehydes, essential oils of some plants, etc. 3. Acids and powerful bases hydrochloric, sulphuric and nitric acids, sodium or potassium hydrate, etc. 4. Inorganic anions;

5. Metals o salts of metals arsenic, thallium, mercury, lead; 6. Non volatile organic compounds of acidic, neutral or basic nature. It must be considered, however, that some toxins and lots of drugs, with a polypeptide have physical and analytical chemical peculiarities that do render their extraction and analysis and also their classification more complex.

In many cases, poisoning represents an unknown event which will be demonstrated only through a balanced criteriology for obtaining a differential diagnoses, often inopportunely overlooked within the number of tests to be executed in cases of unexpected death. All of this results in an understatement of poisoning incidence within the field of so-called medico-legal pathologies. Included during this field are Drug Related Deaths (DRD), a widely investigated and delineated phenomenon in terms of incidence, prevalence and social impact. The multiplicity of pathological factors that contribute to its cause is demonstrated by a posh definition elaborated by a German study group, consistent with which DRD term groups deaths thanks to "Accidental or intentional overdoses, future substance abuse, suicide associated to toxic dependency, lethal accidents influenced by the utilization of medicine. DRD may be a pathological epiphenomenon reductively denominated an "Overdose" or "Adverse Reaction", originating from variable physiopathological pharmacotoxicological and immunological mechanisms, whose genesis has not found and can't find a comprehensive explanation during a morphological or chemical-toxicological cause, considered in isolation.

Post-mortem diagnosis of acute and chronic intoxication may be a paradigmatic example of the need to correlate circumstantial, clinical and chemical toxicological data, obtained following an accurate methodological approach; the gathered data must successively be the thing of an evaluative forensic toxicological criteriology. During this view the existence of standardized methodological protocols finds its reason, applied to the resolution of cases where an acute or chronic intoxication of forensic concern is suspected. The clinical data ask sanitary documentation that's examined to evidence any general or local disorder, so as to stipulate the target symptoms characterizing intoxication. During this view an appropriate toxicological evaluation needs a profound knowledge of the spectrum of biological effects of a selected chemical substance, of the intensity of individual effects hooked in to the dose and on the frequency or probability of the looks of a dose-dependent effect during a determined population.

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