
Behavioral Toxicology and Environmental Health Science

Opportunity and Challenge for Psychology

Bernard Weiss

*University of Rochester
School of Medicine and Dentistry*

ABSTRACT: Behavioral toxicology is now established as a component of the environmental health sciences. Its rise paralleled recognition that the adverse health impact of environmental chemicals should be gauged by how people feel and function, not solely by death or overt damage. Its compass extends across the total spectrum of environmental chemicals, including heavy metals, solvents, fuels, pesticides, air pollutants, and even food additives. Psychology can help resolve many critical issues in environmental health science.

Odious waterways and corrosive smog are such tangible evidence of pollution that they evoke tangible remedies. But eliminating blatant pollution is no more than a first step in managing the environment and protecting human health. Some of the most toxic contaminants are also the most elusive. How can we assess the impact of chemicals that, in passing through the environment, may be transformed into other substances, may be dispersed by atmospheric processes, may enter the food chain in unpredictable guises, or may trigger biological reactions whose consequences remain dormant for decades? To multiply this ambiguity, how do we evaluate toxic processes expressed other than as overt disease or death? Especially, how do we detect an insidious degradation of function, especially if it unfolds gradually over years of toxic exposure or after a latency of half a lifetime?

The nascent discipline of behavioral toxicology arose as one response to such questions. Behavioral measures were seen to fulfill unique roles. One derives from the realization that many substances act primarily on the nervous system. They include heavy metals such as mercury, lead, and manganese; organic solvents such as carbon disulfide and toluene; pesticides such as the organophosphates; air pollutants such as carbon monoxide. A second reason is more subtle; it derives from the observation that many poisonings, before they bloom into overt clinical signs, may be heralded by vague, subjective, nonspecific psychological complaints. Finally, there are substances whose actions, although not mediated directly through

nervous system mechanisms, produce distinct behavioral reactions. For example, the main oxidant in photochemical smog, ozone, is a deep lung irritant eliciting subjective discomfort.

This unique role for psychology grows out of a new perspective by the environmental health sciences, particularly environmental toxicology, and by public health leaders. Toxicology, the science of poisons, used to be a discipline ruled by the clear criteria of death and tissue pathology. The new issues that emerged from our delayed recognition of environmental hazards, however, stimulated new questions about adverse effects on health. Were death or tissue lesions the only feasible end points? What about disturbances of function? Isn't it important to discover how people feel and perform or to intervene when "behavioral changes dangerous to a patient and others can occur before the individual realizes that he or she is poisoned" (Michael, 1982)? Once we were alerted to these questions about function, it was a natural step to turn to the discipline whose business it had been for over a century to provide scientific answers to questions of this type.

Behavioral toxicology is so young that its formal debut in the United States did not occur until June 1972, shortly after the winter snows had melted in Rochester (Weiss & Laties, 1975). Like many new disciplines, it coalesced from fragments of old ones: toxicology and its emphasis on pathology, behavioral pharmacology and its parallel inquiries about drug effects, industrial hygiene and its recognition of functional indexes as the basis for many standards of allowable exposure to workplace chemicals. It is also indebted to I. P. Pavlov, because his stature in Soviet science helped to elevate CNS function to a sovereign place in USSR hazard assessment (Glass, 1975).

Behavior also was seen to have special virtues as a criterion of adverse effects. First, it is a nondestructive assay: Its subjects' livers need not be fed into a blender to quantify damage. Also, it is an assay system (Weiss, 1978b) reflecting an organism's total functional capacity, not simply one component of it. Such attractive attributes come at a price, however.

Behavioral Toxicology

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