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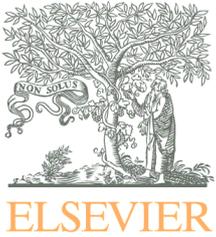
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Air Force Aircraft Returned from Vietnam Identified as Postwar Source of Agent Orange Contamination

New evidence published in Environmental Research shows personnel exposed to meaningful levels of Dioxin, contrary to current position held by Air Force and VA

Amsterdam, February 21, 2014 – From 1971-1982 Air Force reservists, who flew in about 34 dioxin-contaminated aircraft used to spray Agent Orange and returned to the US following discontinuation of the herbicide spraying operations in the Vietnam War, were exposed greater levels of dioxin than previously acknowledged, according to a study published today in *Environmental Research*.

“These findings are important because they describe a previously unrecognized source of exposure to dioxin that has health significance to those who engaged in the transport work using these aircraft,” says lead investigator Peter A. Lurker, PhD, PE, CIH, an environmental engineer with many years of experience evaluating environmental exposures in the Air Force.

During the Vietnam War, in an operation known as “Operation Ranch Hand,” approximately 20 million gallons of herbicides, including around 10.5 million gallons of dioxin-contaminated Agent Orange, were sprayed by about 34 C-123 aircraft. These aircraft were subsequently returned to the US and were used by Air Force reserve units between 1971 and 1982 for transport operations. After many years without monitoring, tests revealed the presence of dioxin (also known as TCDD). All but three of the aircraft were smelted down in 2009.

The Air Force and Department of Veterans Affairs have previously denied benefits to these crew members. Current policies stipulate that “non-biologically available dried residues” of chemical herbicides and dioxin would not have led to meaningful exposures to flight crew and maintenance personnel, who are therefore ineligible for Agent Orange-related benefits or medical examinations and treatment.

Researchers estimated dioxin body burden using modeling algorithms developed by the US Army and data derived from surface wipe samples collected from aircraft used in Operation Ranch Hand. They compared estimates with available guidelines and standards and discuss the implications with respect to current Air Force and VA policies.

These models suggest that the potential for dioxin exposure to personnel working in the aircraft post-Vietnam is greater than previously believed and that inhalation, ingestion, and skin absorption were likely to have occurred during post-Vietnam use of the aircraft by aircrew and maintenance staff. The estimated dermal and oral exposure exceeded US standards. The estimated airborne contamination exceeded the only available (German) standard.

“Our findings, the results of three different modelling approaches, contrast with Air Force and VA conclusions and policies,” concludes senior author Jeanne Mager Stellman, PhD, Professor Emerita of Health Policy and Management at the Mailman School of Public Health, Columbia University, New York. “The VA concept of a ‘dried residue’ that is biologically unavailable is not consistent with widely accepted theories of the behavior of surface residues. Aircraft occupants would have been exposed to airborne dioxin-contaminated dust as well as come into direct skin contact, and our models show that the level of exposure is likely to have exceeded several available exposure guidelines.”

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Notes for editors

"Post Vietnam Military Herbicide Exposures in UC-123 Agent Orange Spray Aircraft," by Peter A. Lurker, Fred Berman, Richard W. Clapp, Jeanne Mager Stellman. *Environmental Research*, published online on February 21 (Volume 130, 2014), DOI: 10.1016/j.envres.2014.02.004.

Full text of the article is available to credentialed journalists upon request; contact Deirdre Dunne at +31 610 947 741 or d.dunne@elsevier.com to obtain copies. To schedule an interview with the authors contact Stephanie Berger, Associate Director, Office of Communications, Columbia University Mailman School of Public Health, at +1 212 305 4372 or sb2247@columbia.edu.

About *Environmental Research*

Environmental Research: A Multidisciplinary Journal of Environmental Sciences, Ecology, and Public Health, publishes original reports describing studies of the adverse effects of environmental agents on humans and animals. The principal aim of the journal is to assess the impact of chemicals and microbiological pollutants on human health. www.journals.elsevier.com/environmental-research

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