

Title: Evaluation of Pesticide-infused Barrier Screen for Localized Reduction of Mosquitoes in Deployed Settings

Speaker Name(s): Dunford, Salyer, Cilek, Sutherland

Summary: Deployed DoD personnel experience increased disease risk due to prolonged activity spent outdoors and would benefit from spatial repellent products in commonly trafficked outdoor work locations (e.g. mechanics bays) or where deployed personnel gather while dressed in untreated PT uniforms. However, spatial repellents have limited usefulness as outdoor deterrents against host seeking mosquitoes. Pesticide-infused barrier screens could be positioned on the perimeter of work/social gathering areas to provide relief from host-seeking mosquito vectors and reduce the transmission risk to military personnel from mosquito-borne pathogens. The Navy Entomology Center of Excellence evaluated efficacy of commercial deltamethrin-impregnated insecticidal screen (PermaNet) as a potential tool in protecting outdoor military personnel from natural populations of disease transmitting mosquitoes.

The views expressed in this article are those of the author and do not necessarily reflect the official policy or position of the Department of the Navy, Department of Defense, nor the U.S. Government. I am a military service member [or employee of the U.S. Government]. This work was prepared as part of my official duties. Title 17, U.S.C., §105 provides that copyright protection under this title is not available for any work of the U.S. Government. Title 17, U.S.C., §101 defines a U.S. Government work as a work prepared by a military Service member or employee of the U.S. Government as part of that person's official duties.