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Preface

About the Walter Reed Army Institute of Research

The Walter Reed Army Institute of Research (WRAIR, pronounced "rare") consists of nine scientific divisions each representing a scientific discipline, six support divisions, four detachments in the United States and four overseas laboratories. The Institute specializes in medical research in biochemistry, immunology, experimental therapeutics, military medicine, neuropsychiatry, experimental pathology, blood products, preventive medicine, retrovirology [HIV], vaccines and their delivery systems, communicable diseases, biological and chemical threats, and combat dentistry and surgery. The staff is roughly 50% military and 50% civilian, equally divided between scientific and support personnel. Important organizational components of the WRAIR are the special field activities in Thailand, Brazil, Kenya, and Germany. Research and support functions at the overseas labs are closely coordinated with efforts at the main facility in Washington, D.C.

The mission of WRAIR is to counter threats from three sources: biologically active substances, high energy and trauma, and stress and performance. The historic emphasis at WRAIR is research against naturally occurring infectious agents encountered in military training or operations. The threat of "biologically active substances" encompasses naturally occurring infectious diseases, toxins, and commonly used chemicals. In addition, there is significant research to counter physical (environmental) threats and psychological disease in training and in combat operations.

WRAIR primarily works at the applied research and pre-development level, but the institute is also intimately involved in product development with the United States Army Medical Material Development Agency (USAMMDA), Ft. Detrick, MD. By chairing and serving on scientific steering committees, WRAIR scientists provide the technical guidance required for rational development of technical base initiatives. In addition, many products are developed and tested at the WRAIR Special Field Activity Laboratories.

WRAIR's efforts are not limited to research; WRAIR was originally founded in 1893 as the U.S. Army Medical School. It continues to be a center of learning through the military preventive medicine residency, a military medical research fellowship program, and short courses in tropical medicine, veterinary medicine and other subjects. Many of our post-doctoral fellowships bring outstanding young scientists to the Institute for up to two years at a time.

The vertical integration which marks WRAIR's structure has been present from the beginning. Just as Major Walter Reed did his outstanding work on yellow fever as a member of the first faculty, the Institute today still has the capability of identifying a threat, determining its cause, designing an answer, testing it under actual field conditions, and teaching others to use the results.

Some Major Accomplishments

Some Major Accomplishments

1898: Reed-Vaughn-Shakespeare Typhoid Board established mechanism of transmission.

1900: Yellow Fever Board, in Cuba, proved mosquito transmission of yellow fever.

1910: Maj. C. R. Darnall developed the use of chlorine to purify drinking water.

1918: Maj. R. L. Kahn devised what became the standard serologic test for syphilis.

1925: Col. Calvin H. Goodard began work which led to the science of comparative ballistics.

1933: Atabrine was introduced as a substitute for quinine in combating malaria.

1940-45: Work by Cpt. D. B. Kendrick led to the first system of blood banking, storage and use.

1957: Drs. Hilleman and Buescher isolated Asian flu virus strain used to make first vaccine.

1962: Drs. Parkman, Artenstein and Buescher isolated the Rubella virus, leading to a vaccine.

1979: WRAIR psychologists played a major role in developing the Army's new manning system.

1982: WRAIR immunologists began work to develop the world's first promising malaria vaccine.

1990: Maj. Robert DeFraites, Maj. Jose Sanchez, and LTC Charles Hoke conducted a major vaccine vaccine field trial with a Japanese encephalitis virus vaccine. This was the last hurdle prior to licensure of a commercial product.

1995: A hepatitis A vaccine is licensed. WRAIR scientists did much of the preliminary research on this vaccine strain and a pivotal field trial in Thailand.

Key to Citations

J Journal
C Chapter
B Book
R Report
A Abstract

Journal Articles

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Abstracts

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