

EMERGING INFECTIOUS DISEASES

Tracking trends and analyzing new and reemerging
infectious disease issues around the world

A peer-reviewed journal published by the National Center for Infectious Diseases

Vol. 4 No. 3, July-Sept 1998



New and Reemerging Diseases: The Importance of Biomedical Research

Anthony S. Fauci

New Agents

The Global Threat

Foodborne Diseases

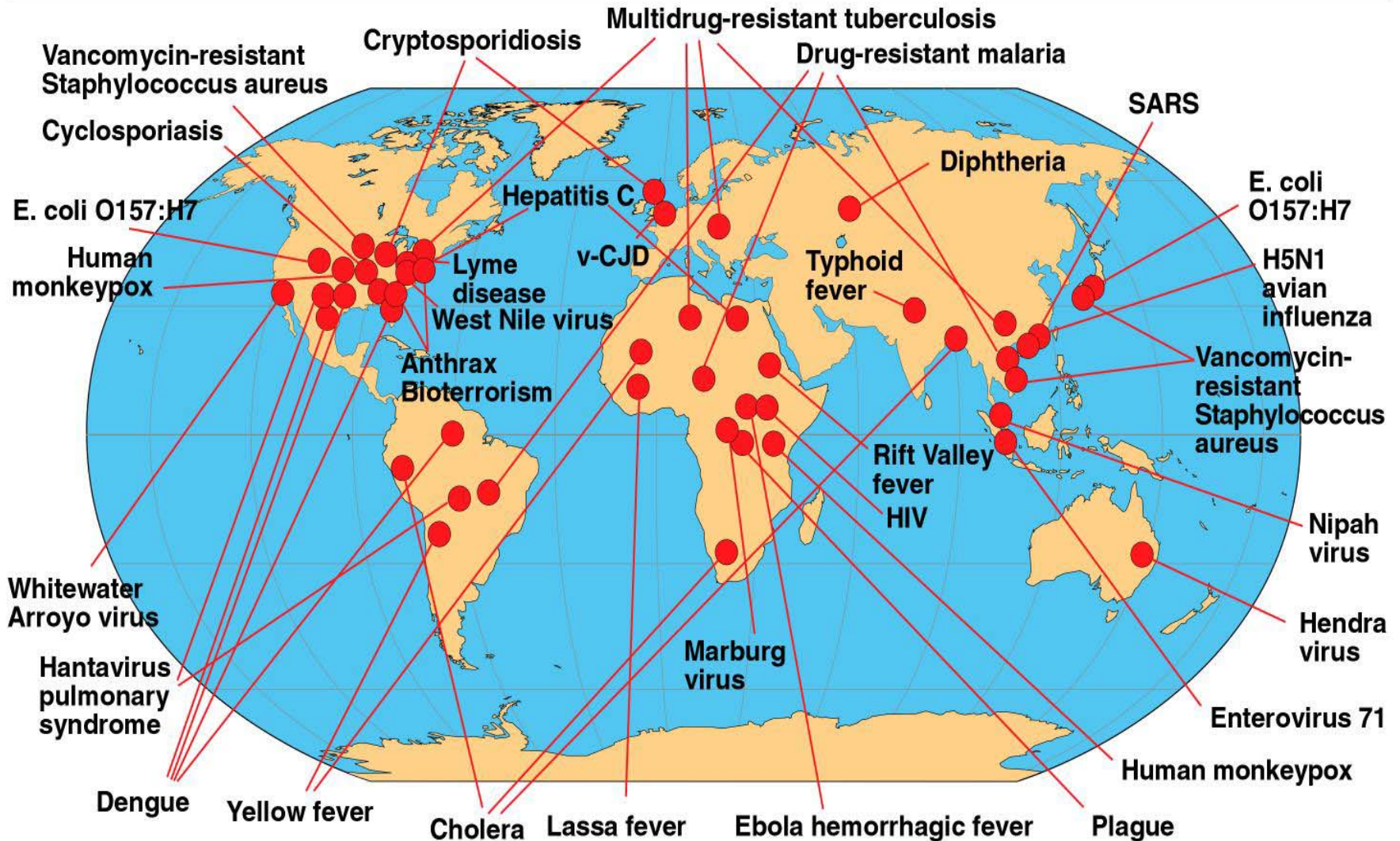
Vector-borne Issues

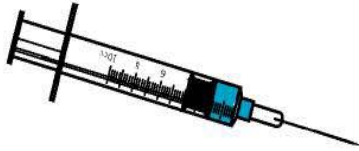


U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service



Examples of Emerging and Re-Emerging Diseases





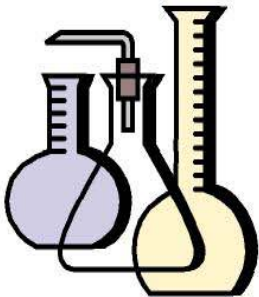
Vaccines



Therapeutics



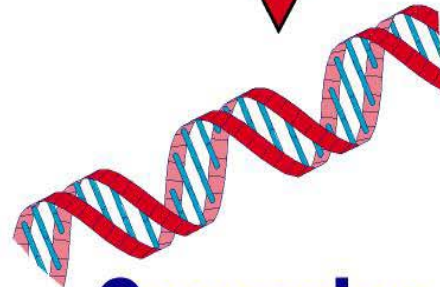
Diagnostics



Basic Research



**Expansion of
Research
Capacity**



Genomics

Emerging/Re-Emerging Diseases: Selected NIH Accomplishments

HIV/AIDS

- 22 approved anti-HIV drugs; multiple vaccine candidates in “pipeline” and clinical trials; worldwide prevention programs

Malaria

- Genomic sequencing of parasite and mosquito vector; molecular mechanisms of drug resistance; vaccine clinical trials

Tuberculosis

- Drug and diagnostics development; 2 clinical trials of new vaccines (first in 60 years)

Emerging/Re-Emerging Diseases: Selected NIH Accomplishments

West Nile Virus

- 2 candidate “chimeric” vaccines; antiviral screening; clinical trial of immunoglobulin

SARS

- Several promising vaccine candidates; antiviral screening; monoclonal antibody development

Influenza

- Genomic sequencing; production of seed virus and pilot lots; clinical trials

Potential Bioterror Agents

- Expansion of research capacity; vaccines against smallpox, anthrax, ebola, plague; therapeutics

THE
RESTLESS
TIDE

The Persistent Challenge
of the Microbial World

RICHARD M. KRAUSE

Published by The National Foundation for Infectious Diseases