They have Vets in the Army?!
DOD Veterinary Service Activity
Our Mission Requires Specialties

FORCE PROTECTION

FOOD PROTECTION

ANIMAL MEDICINE

R & D
# AVMA Specialty Boards

## 223 VC Diplomates

<table>
<thead>
<tr>
<th>Board</th>
<th># Certified</th>
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<tbody>
<tr>
<td>Veterinary Preventive Medicine</td>
<td>113*</td>
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<tr>
<td>Veterinary Pathology</td>
<td>44</td>
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<tr>
<td>Laboratory Animal Medicine</td>
<td>39</td>
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<td>Veterinary Internal Medicine</td>
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<tr>
<td>Veterinary Practitioner</td>
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<tr>
<td>American Board of Toxicology</td>
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<tr>
<td>Veterinary Surgery</td>
<td>4</td>
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<td>Vet Emergency Med &amp; Critical Care</td>
<td>3</td>
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<td>Veterinary Microbiology</td>
<td>2</td>
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<tr>
<td>Veterinary Radiology</td>
<td>1</td>
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</tbody>
</table>

*24 also boarded in another specialty

Foreign Animal Disease Diagnosticians **150**

(Source = Human Resources Command, Oct 07)
Our Customers and Our Focus

Animal Health and Human Health for Military Personnel and their Family Members

4.1 Million Military and Family Members
Critical Infrastructure Interdependencies

National Strategy for Protection of Critical Infrastructure and Key Assets
Homeland Security Presidential Directive

Subject: Defense of United States Agriculture and Food
January 30, 2004

Purpose

(1) This directive establishes a national policy to defend the agriculture and food system against terrorist attacks, major disasters, and other emergencies.

Background

(2) The United States agriculture and food systems are vulnerable to disease, pest, or poisonous agents that occur naturally, are unintentionally introduced, or are intentionally delivered by acts of terrorism. Americas agriculture and food system is an extensive, open, interconnected, diverse, and complex structure providing potential targets for terrorist attacks. We should provide the best protection possible against a successful attack on the United States agriculture and food system, which could have catastrophic health and economic effects.
Disasters do not create new conditions; they simply exacerbate existing ones. Preparing for extraordinary disasters is the best preparedness for everyday disasters.

Dr. Sebastian Heath
DOD Veterinary Service Activity

Food Safety and Defense
Animal Medicine
Animal Medicine

- Manage & Supervise Veterinary Treatment Facilities
- Complete Med/Surg Care to Gov’t-owned Animals (Garrison & Deployment)
- Consult with Health Care Providers on Zoonotic Diseases
- Augment USDA in Support of Foreign Animal Disease Outbreaks and Surveillance
- Conduct Humanitarian Assistance Missions
  - Stability, Security, Transformation, Reconstruction Operations
Research and Development

- Prevention
- Treatment
- Diagnosis
- Epidemiology
- Laboratory Support
- Training
A Global Laboratory Network

DoD’s Unique Assets – Overseas Presence with OCONUS Labs
Diagnostics

SEB Toxin
Ricin Toxin
Botulinum neurotoxins
*Yersinia pestis*
*Bacillus anthracis*
VEE virus
Ebola and Marburg viruses
Orthopoxvirus
Smallpox
*Francisella tularensis*
*Brucella*
*Coxiella burnetii*
Therapeutics

**Antibiotics:**
- Anthrax
- Plague
- Q Fever
- Tularemia
- Glanders
- Brucellosis

**Antivirals:**
- Smallpox
- Ebola

**Other treatments:**
- Toxin inhibitors
- Immune globulins
Medical Products for Biological Defense

- Tularemia Vaccine
- Venezuelan Equine Encephalitis (VEE): TC-84, C-84
- Eastern Equine Encephalitis (EEE)
- Western Equine Encephalitis (WEE)
- Q-Fever (Coxiella burnetii)
- Botulinum Toxoids A, B, C, D, E
- Smallpox Vaccine (cell culture derived vaccinia virus)
- Botulinum Antitoxin (human; despeciated horse)
- Vaccinia Immune Globulin
- Botulinum Neurotoxin A; B Vaccines
- Venezuelan Equine Encephalitis Virus (V3526) Vaccine
- Plague Vaccine (F1-V)
- Common Diagnostics System (10-20 agents)
- Next Generation Anthrax Vaccine
- Staphylococcal Enterotoxin B; A Vaccines
- Hantavirus Vaccines
- Botulinum Neurotoxin C, D, E, F, G Vaccines

IND

Pending Transition
Influenza Vaccine Production Timeline

**Virus Selection**
- FDA advisory panel selects 3 strains
- CDC provides new strains of the seed virus to the FDA
- FDA distributes the 3 seed viruses to manufacturers

**Production Begins**

**FDA Testing, Licensure**
- Vaccine is filled into vials and syringes; packaged for distribution

**Filling/Packaging**
- Immunity develops approximately 2 weeks after vaccination

**Product Release/Shipping**
- Vaccination Begins
Pandemic Influenza Prevention & Response Plan

- Identified over 90 elements with DOD involvement
- Avian Influenza working group 2006
- Developed Avian Influenza Playbook
USDA and US Army Veterinary Service Memorandum of Agreement

- “...prescribed support in the event that the presence of animal/plant diseases and/or pests constitutes an actual or potential emergency situation”
- negative economic impact
- threatens the viability of animal agriculture
- determined by the Deputy Administrator of Veterinary Services, APHIS
DOD Food Analysis and Diagnostic Laboratory

- Surge capacity for AI diagnostics
Interagency Cooperation
USDA-FDA-CDC
VMAT-NDMS-SMART-V
CDHAM-USUHS
Farmland Security End States

- Healthy Animals
- Safe Food Supply
- Confident Consumers
- Profitable Agricultural Sector
- Access to Global Markets
This Nation can afford to be strong—
it cannot afford to be weak

We shall do what is needed to make and keep us strong

President John F. Kennedy
Agroterrorism = Economic Warfare

- 13% of Gross National Product
- 24,000,000 US jobs
- US Trade
  - $1,000,000,000,000,000 economic activity
  - 59,000,000,000 net farm income
  - 12,000,000,000 positive balance of trade
Economic Impact

- BSE- “Mad Cow”
  December 2003

- Loss of ruminant export to over 90 countries

- Over $6 Billion dollars lost

- All due to one cow
Chilean Grape – Cyanide Scare - 1989

Recall of all Chilean fruit from Canada and US

Cost over $300,000,000 and 100 shippers and growers went bankrupt
Agroterrorism Roles

• Surveillance- Civilian and Government Veterinarians
  USDA-APHIS, State Veterinary Staff

• Detection- Government, Military and Civilian Staff
  Foreign Animal Disease Diagnosticians
  USDA Emergency Response Plan

• Laboratories- Plum Island, NY;
  Ames, IA;
  States:
  DOD FADL, San Antonio,TX

• Operational Response- Exercises & Real Events
  10,000 veterinarians/90,000 personnel
  UK- FMD; Exotic Newcastle Disease
Battles are won by
... Soldiers.

But wars are won by
the great strength of
the Nation-
The Soldier and the
Civilian working
together

General of the Army
Omar N. Bradley
DOD Veterinary Service Activity

Key DOD Veterinary Service Activity
Disaster Management Contacts

Deputy Director
COL Tim Stevenson (703)681-3057
timothy.stevenson@us.army.mil

Operations
LTC Tom Honadel (210)221-8018
thomas.honadel@us.army.mil

NORTHCOM
MAJ Brian Kim (719)554-4967
brian.kim@northcom.mil
UNITED STATES ARMY VETERINARY CORPS

1916 1997
Ninety-One Years of Support & Still Counting