USAF School of Aerospace Medicine
Overview

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USAF School of Aerospace Medicine
711th Human Performance Wing
Air Force Research Laboratory

Integrity ★ Service ★ Excellence
Education and Training
*Office of the Dean

- **Enlisted Technical Training**
  - Bioenvironmental Engineering, Public Health, Aerospace and Operational Physiology

- **AFSC-Awarding Officer Training**
  - Flight Surgeon, Bioenvironmental Engineering, Public Health, Aerospace and Operational Physiology

- **Graduate Medical Education**
  - Aerospace Medicine, Aerospace Medicine-Family Practice Medicine

- **AF Center for Expeditionary Team Training**
  - Basic Expeditionary Medical Readiness Training, Center for Sustainment of Trauma and Readiness Skills

- **AF Center for En Route Care Training**
  - Flight Nurse, Aeromedical Evacuation Technician, Critical Care Air Transport Team

- **Joint International Medical Training Platform**
  - Advanced Aerospace Medicine for International Medical Officers, Flight Nurse, Flight Surgeon, Critical Care Air Transport Team, Aerospace and Operational Physiology

- **Aerospace and Expeditionary Medical Sustainment Courses**
  - Global Medicine, Operational Entomology, Aircraft Mishap Investigation and Prevention, Hearing Conservation, Medical Personnel Reliability Program, and more
Operational Consultation and Reachback

- National and International Consultants for everything “Team Aerospace”
  - Occupational and Environmental Health
  - Public Health
  - Aerospace Medicine
  - Aeromedical Evacuation
- Deployable/Homeland Defense Teams
  - DoD Theater Epidemiological Teams
  - DoD’s Radiological Assessment Teams
    - 24/7 Homeland defense call
  - Multiple Medical Teams
Research and Technology Development

- Over 70 current active RDT&E initiatives
  - DHP funded from multiple sources (COCOM, MAJCOM, AF/SGR, and O&M)
  - Vast majority of consultant activities (epidemiological study, health effects studies, exposure and risk analysis) have research component not captured in above

- Major Thrust Areas
  - Human Performance (Sustain and Optimize)
  - En-Route Care and Aeromedical Evacuation
  - Airman Selection and Performance in Adverse Environments
  - Force Health Protection

- Aeromedical Research Department oversees entire Wing DHP R&D Mission
Department of Public Health and Preventive Medicine (PH)

Epidemiology Laboratory Services Division
PHE  AF’s Only Clinical Reference Laboratory

- Delivers >2 million test results/year to 220+ DoD customers
- Saves each MTF up to $25K per month in outsourced costs
- On the cutting edge of molecular/genomic research

Public Health Education Division
PHD  AF’s Academic Excellence for Public Health Training

- Provides training on the full spectrum of AF Public Health to 1,900 DoD Officers/Enlisted yearly
- Delivers 3,700 hours in basic PH instruction/year; awarded over 3,600 CCAF credit hours in 2012

Epidemiology Consult Service Division
PHR  The AF Service Hub for Operational Public Health

- Synergistic mix of consultation, epidemiology reach-back, entomology, food, audiology and applied researchers
- Moment’s notice outbreak investigation expertise, COCOMs Theater Epidemiology Team support

**Consultative Services**

- **Consultation in:**
  - Industrial Hygiene
  - Radiation & Health Physics
  - Chemical, biological, radiological and nuclear response
  - Environmental Surveillance
  - Occupational Medicine

- **Base guidance development**

- **3.5K calls per year**

- **On-site technical support**

**Analytical Services**

- **Laboratory analysis per year:**
  - 18K chemistry samples
  - 10K radioanalytical samples
  - 14K dosimetry analysis

- **AF radiation exposure history** for 4.5 million personnel over 65 years

- **AF BEE Proficiency Assessment Testing Program**

**Force Development**

- **Resident courses for:**
  - BEE Apprentice
  - BEE Officer
  - Readiness Operations
  - Occ Health Measurements
  - Radiation
  - Advanced Management

- **Computer based courses**

- **BEE readiness skills verification**

**Air Force DOEHRS Support Office**

- **AF Radiation Assessment Team**
Department of Aerospace Medicine (FE)

**FEE: Aerospace Medicine Education Division**

- **Graduate Medicine**
  - PM, OM and AM Residencies
  - Hyperbaric Fellowship
- **Primary Medicine**
  - Aerospace Medicine Primary, Global Medicine, Mishap Investigation
- **Hyperbaric Medicine**
  - Hyperbaric Medicine course
  - Clinical Hyperbaric medicine
- **Physiologic Training**
  - 1400 aviators/year in chamber
    - Medics, line aviators, aviation service/PJ Basic Military Trainee candidates
- **Combat Air Forces Gz Awareness Training Move to WPAFB**
  - Relocated to Brooks Sept 10
  - Moves to WPAFB upon completion of ‘fuge
FEC: Clinical Sciences Division

- Aeromedical Consultation Service (ACS)
  - The world’s leading multi-specialty referral center evaluating aircrew with complex medical problems for fitness to fly. ~1200 evaluations/year with ~85% returning to the cockpit
    - FECA - Aerospace
    - FECI - Internal Med (Pulmo, Cardiology, Neurology)
    - FECN - Neuro-Psychiatry
    - FECO - Ophthalmology

- Flying Class 1 / Medical Flight Screening (MFS)
  - Conducts all initial pilot applicant medical qualification exams for ROTC, AFRC & ANG. ~1100/yr
  - Conducts ‘top off’ evaluations for all AD personnel pursuing career change to flight status. ~600/year
Air Force Expeditionary Medical Skills Institute (AFEMSI)

C-STARS Baltimore
R Adams Cowley Shock Trauma Center

- Advanced trauma care/surgical techniques, immediate shock assessment, resuscitation and stabilization

C-STARS Cincinnati
University Hospital Cincinnati

- Designated CCATT Advanced Course

C-STARS St. Louis
St. Louis University Medical Center

- Advanced trauma care/surgical techniques, immediate shock assessment, resuscitation and stabilization
- Total Force platform (Missouri ANG)
Questions?