

David O. Eddington, Maj (Ret) USAF, M.S., MBA, MT(ASCP)

Department of Microbiology and Molecular Biology

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EDUCATION

Uniformed Services University of the Health Sciences

- M.S. in Molecular and Cell Biology 2003
- Thesis: "Localization and expression of the proto-oncoprotein *Brx* in the mouse brain and pituitary"
- Mentor: T. John Wu, PhD.

University of Phoenix

- M.B.A. 1998

Brigham Young University

- B.S. in Medical Technology 1993
 - Minor in Chemistry

PROFESSIONAL EXPERIENCE

Education

- Associate Professor, Brigham Young University 2022 - Present

Clinical and Management

Quality Supervisor

2019 – 2022

Revere Health

Provo, UT 84602

- Oversaw quality assurance for seven laboratories throughout Utah
- Evaluated quality control for 29 analyzers, 388 analytes and 825 QC levels
- Performed quality control crossover studies
- Monitored proficiency testing for all labs, performs follow up investigations when needed
- Ensured post-analytic quality assurance activities are performed properly
- Input hundreds of QC ranges into the laboratory information system
- Adjusted quality control ranges when necessary
- Executed new analyzer and new method studies
- Submitted and reviews monthly peer review data
- Completed biennial secondary analyzer correlation studies
- Documented preventive maintenance review and recommends maintenance on analyzers based off quality control data
- Performed quality audits

Laboratory Manager & Technical Supervisor

2014 – 2018

Brigham Young University

Student Health Center

Provo, UT 84604

- Supervised seven clinical laboratory professionals
- Managed overall operations of a lab performing 55+K tests annually
- Directed a \$900k budget; responsible for all equipment/supply purchases
- System Administrator for the Laboratory Information Systems (Orchard Harvest)
- Responsible for CLIA federal regulatory compliance

- Consulted with laboratory director and health center medical director on laboratory issues
- Responsible for the overall operational, technical, and scientific oversight of the lab
- Oversaw quality assurance activities including monthly and annual QA reviews
- Supervised specimen collection, hematology, urinalysis, clinical chemistry, serology, immunology, and microbiology departments
- Oversaw and performed proficiency testing for all departments noted above
- Designed and modified laboratory procedures and policies for analyzing clinical samples
- Validated, confirmed, and reviewed laboratory test results
- Performed annual QA studies; collected data, developed reports, presented findings to medical review committee and established new patient reference ranges
- Reviewed quality control data for various laboratory test procedures
- Troubleshoot analyzers and monitored analyte trends
- Interfaced with medical staff on medical issues and laboratory procedures and results
- Oversaw patient and employee safety
- Collaborated with business office on billing operations
- Worked on bench as a medical technologist as needed

Deputy Branch Chief 2013 - 2014

Human Analyst Augmentation Branch
Air Force Research Laboratory
Wright-Patterson AFB OH 45433-7022

- Supervised 30 government scientists & engineers; oversaw branch operations
- Assisted branch chief in management of \$3 million science/technology research portfolio
- Performed financial planning; provided senior management oversight for all programs
- Managed personnel planning; oversaw training, personnel scheduling, and timekeeping

Biological Personnel Reliability Program Certifying Official 2010 - 2013

Molecular Signatures Section
Air Force Research Laboratory
2510 Fifth Street; Bldg 840
Wright-Patterson AFB OH 45433-7022

- Supervised 22 government scientists & engineers; led and mentored section personnel
- Oversaw the Air Force's only Biological Personnel Reliability Program (BPRP)
- Selected, vetted, certified, trained, managed and developed staff for access to Air Force inventory of biological select agents for counter-proliferation research
- Monitored personnel records, training, security clearances, and competency of staff
- Directed operations support for a cutting-edge bio-technology research laboratory
- Oversaw execution of two \$5 million contracts, facilitated research for 8 research projects
- Coordinated 25 contract modifications valued at \$2.8 million
- Consulted with the CDC and outside agencies on the Air Force BPRP program

Laboratory Flight Commander 2006 – 2010

355th Medical Group
Davis-Monthan AFB TX 85708

- Laboratory Manager and chief technical supervisor of a large Air Force clinic laboratory
- Managed all operations of a laboratory performing 200,000 tests annually
- Supervised specimen collection, hematology, urinalysis, clinical chemistry, serology, immunology, and microbiology departments
- Responsible for the technical and scientific oversight of the lab; assured accurate results
- Designed and modified laboratory procedures and policies for analyzing clinical samples
- Validated, confirmed, and reviewed laboratory test results
- Collected data, developed reports, and established new patient reference ranges
- Designed and reviewed quality control data for laboratory test procedures
- Troubleshoot and monitored analyzer trends; installed modern laboratory analyzers

- Performed and advised staff on molecular testing of environmental and clinical samples
- Enforced regulatory standards and ensured compliance with multiple professional accreditation entity requirements; performed a peer laboratory inspection
- Interfaced with medical staff on medical issues and laboratory procedures and results
- Directed 31 laboratory professionals and students and provided continuing education
- Managed \$1.2 million clinical laboratory budget; oversaw patient and employee safety
- Produced administrative reports and worked as a medical technologist as needed

Chief, Blood Transshipment Team 2007
Area Joint Blood Program Officer-South
379 AEW - CENTCOM
Al Udeid AB
Qatar

- Deployed in support of Operation Iraqi Freedom and Operation Enduring Freedom
- Area blood program officer of the United States Central Command
- Scheduled 36 tons of airlift into the operational theaters
- Orchestrated 97 blood shipments including 26,000 units of blood and blood products
- Supported 18 thousand transfusions in the Iraq and Afghanistan theaters of war
- Performed quality control of blood after arrival in the theater after the international flight
- Ensured blood products stored according the federal and professional requirements
- Monitored blood and blood product inventories daily in theater medical facilities
- Documented transshipment, storage, transfusion, and disposal of all blood products

Chief, Molecular and Microbiology (Virology) 2004 –2006
Air Force Institute for Operational Health
Brooks City-Base TX 78235

- Technical supervisor in an Air Force reference laboratory
- Directed molecular diagnostics, microbiology, parasitology, and virology reference labs
- Designed and modified procedures; validated and reviewed laboratory test results
- Collected, reviewed quality control data; developed reports; troubleshoot lab analyzers
- Fielded cutting-edge instrumentation; performed and advised staff on molecular testing of environmental and clinical samples for bacteriological agent detection and identification
- Provided continuing education training and instruction in basic theory, techniques and application of test methodologies; set up molecular biological agent identification lab
- Prepared labs for accreditation inspection of microbiology, virology, and clinical chemistry
- Ensured accuracy of results and secured a continuing 2-year accreditation

Chief, Molecular Operations and Training 2003 – 2004
Air Force Institute of Operation Health
Brooks City-Base TX 78235

- Directed training for identification of bacteria and viruses via molecular techniques
- Supervised medical technicians
- Executed \$620K budget; directed development and testing molecular diagnostic probes
- Provided instruction on basic theory, technical skills, and application of molecular laboratory procedures

Clinical Laboratory Flight Commander 1998 – 2001
Grand Forks AFB Hospital
Grand Forks ND 58204

- Chief Technologist/Lab Manager/CLIA technical supervisor for all areas of the laboratory
- Supervised 10 medical technicians; managed financial performance of a \$600K budget
- Responsible for technical and scientific oversight of laboratory and transfusion services
- Approved SOP's to meet federal regulatory and professional accreditation standards
- Scrutinized proficiency testing and assured accurate and timely laboratory results
- Provided continuing education and competency training/testing; mentored lab staff

- Provided instruction to physicians, nurses and others on blood component administration
- Administered the laboratory information system; inspected a peer hospital laboratory
- Member of Board of Directors of the local community blood bank

Deputy Chief, Pathology Laboratory Services 1995 – 1998
Chief, Blood Bank

Mike O'Callaghan Federal Hospital Las Vegas NV 89191

- Supervisory Medical Technologist
- Oversaw performance of 250K procedures per year; Managed a budget of \$500K
- Ensured federal and multiple professional accreditation agency standards met
- Developed/updated operating procedures; oversaw proficiency testing
- Implemented transfusion services information system
- Technical Supervisor of Hematology, Chemistry, Microbiology, Urinalysis, Serology, and Coagulation departments
- Trained personnel; managed blood components; oversaw blood transfusions
- Participated in hospital infection control committee

Staff Medical Technologist 1993 – 1995

Mountain View Hospital, Payson UT 84651

- Performed inpatient and outpatient phlebotomy; collected clinical lab specimens
- Analyzed patient specimens in all areas of the lab; confirmed and certified test results
- Performed and monitored quality control, and troubleshoot laboratory equipment
- Ran microbiology section on weekends; cross-matched blood for patients

Medical Technology Intern 1993

Mountain View Hospital School of Medical Technology; Payson, UT 84651

- Performed inpatient and outpatient phlebotomy; collected blood units from donors
- Trained in microbiology, hematology, urinalysis, coagulation, chemistry, and blood bank

PUBLICATIONS

- **Eddington DO**, Baldwin EL, Segars JH, Wu TJ. "Estrogen effects on the expression of Brx in the brain and pituitary of the mouse." Brain Res Bull. 2006.
- Coleman RE, Hochberg LP, Swanson KI, Lee JS, McAvin JC, Moulton JK, **Eddington DO**, Groebner JL, O'Guinn ML, Putnam JL. "Impact of phlebotomine sand flies on U.S. military operations at Tallil Air Base, Iraq: 4. Detection and identification of leishmania parasites in sand flies." J Med Entomol. 2009

CERTIFICATIONS

- Medical Technologist (American Society for Clinical Pathology) 1993
- Clinical Laboratory Scientist (National Certification Agency) 1993

PROFESSIONAL SOCIETY MEMBERSHIPS

- Member, Association for the Advancement of Blood & Biotherapies (AABB)
- Member, American Society for Clinical Pathology (ASCP)