

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

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Executive Summary:

Biomedical laboratory professional with experience in academic, clinic, research, and hospital laboratories. American Society for Clinical Pathology board certified, experienced, medical laboratory scientist with skills in medical laboratory techniques of specimen analysis, result reporting, healthcare provider interface, quality control, accreditation, federal regulatory requirements, and laboratory management. Qualifications include two years teaching in an accredited Medical Laboratory Science program, 20 years of experience as an Air Force Biomedical Laboratory officer and an additional 5 years' experience performing and supervising testing in clinic and hospital laboratories. Seven years of work experience as an AF laboratory officer include performing research and supervising work in academic and research laboratories.

Education

Master of Science in Molecular and Cell Biology; Aug 2003
Uniformed Services University, Bethesda, MD 20814

Master of Business Administration; May 1998
University of Phoenix, Las Vegas, NV 89135

Bachelor of Science in Medical Technology, minor in Chemistry; Aug 1993
Brigham Young University, Provo UT 84602

Registration/Certification:

Medical Laboratory Scientist (American Society for Clinical Pathology [BOC]); Certification # MLS-191612

Memberships

American Society for Clinical Pathology
Association for the Advancement of Blood and Biotherapies
American Society for Clinical Laboratory Science

Experience

September 2022 – Present (40+ hours/week)

Associate Teaching Professor
Department of Microbiology and Molecular Biology
Brigham Young University
Provo, UT 84602

Courses Taught

MMBio 102 – Introduction to Clinical Laboratory Techniques
MMBio 412 – Immunohematology
MMBio 405 – MLS Laboratory Operations
MMBio 491 – Applications in Laboratory Medicine
MMBio 496 – Clinical Experience
NURS 505 – IPE for Health Professions

Citizenship-Service

Served on the BYU MMBio Experiential Learning Committee
Served as alternate Safety Representative for the MMBio Department

April 2023 – Present

Director, BYU Medical Laboratory Science Program Clinical Experience Internships

David O. Eddington

Jan 2019 – July 2022 (40+ hours/week)

Quality Assurance

Revere Health

Provo, UT 84602

- Oversees quality assurance for seven laboratories throughout Utah
- Evaluates quality control for 29 analyzers, 388 analytes and 825 QC levels weekly
- Performs quality control crossover studies
- Monitors proficiency testing for all labs, performs follow up investigations when needed
- Ensures post-analytic quality assurance activities are performed properly
- Inputs hundreds of QC ranges into the laboratory information system
- Adjusts quality control ranges when necessary
- Executes new analyzer and new method studies
- Submits and reviews monthly peer review data
- Completes biennial secondary analyzer correlation studies
- Documents preventive maintenance review and recommends maintenance on analyzers based off quality control data

Dec 2014 – Dec 2018 (40+ hours/week)

Laboratory Manager & Technical Supervisor

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

July 2013 – July 2014 (40 hours/week)

Deputy Branch Chief

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

August 2010 - August 2013 (40 hours/week)

Biological Personnel Reliability Program Certifying Official
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

August 2006 – July 2010 (40 hours/week)

Laboratory Flight Commander
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

May 2007 – Sep 2007 (40 hours/week)

Chief, Blood Transshipment Team
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

Aug 2004 – July 2006 (40 hours/week)

Chief, Molecular and Microbiology (Virology)

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

August 2003 – August 2004 (40 hours/week)

Chief, Molecular Operations and Training

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

July 1998 – July 2001 (40 hours/week)

Clinical Laboratory Flight Commander

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 SOPs 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

January 1995 – July 1998 (40 hours/week)

Deputy Chief, Pathology Laboratory Services

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

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February 1993 – January 1995 (40 hours/week)

Staff Medical Technologist

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

January 1993 – June 1993 (40 hours/week)

Medical Technology Intern (Clinical Rotation)

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 Research Bulletin. 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. Journal of Medical Entomology. 2009