

## FACILITIES

The American University of Beirut Medical Center is a tertiary medical care center containing 365 beds, with around 26,340 admissions, 15,000 operations, 47,500 emergency room visits, and 218,370 private clinic visits per year. There are 8,500 surgical specimens, 12,500 cytology examinations, and more than one 1,668,000 clinical laboratory tests per year. There is a comprehensive laboratory information system. The departmental library houses a large selection of up to date textbooks and subscribes to several leading journals in AP and CP. Residents also have access to the university's Saab Medical Library. Access to MEDLINE and the INTERNET is available in the department.

## ADMISSION REQUIREMENTS

All applicants must be holders of the MD degree or its equivalent from a recognized university. Preference will be given to those who have completed a year of internship in any clinical specialty. Applicants should sit for the "DEAN'S EXAM", administered by the Dean's Office of the Faculty of Medicine at the American university of Beirut, and pass the exam before their applications are considered. Candidates are exempted from this exam if they have successfully passed the clinical part of the USMLE. Applicants must demonstrate a level of English proficiency either by passing the English Entrance Exam (EEE) administered by the American university of Beirut with a minimum score of 500 or by achieving a minimum score of 575 in the test of English as Second Language (TOEFL). The Office of Test and Measurements, American University of Beirut, Beirut, Lebanon will provide information on the schedules of the EEE. Applications for the DEAN'S EXAM and the RESIDENCY TRAINING PROGRAM are available at:

Office of the Associate Dean  
For Academic Affairs  
Faculty of Medicine  
American University of Beirut  
P. O. Box: 113-6044  
Beirut, Lebanon  
Tel: 00-961-1-374444 ext:4702  
Fax: 00-961-1-744464  
University internet site: <http://www.aub.edu.lb>

Accepted candidates are entitled to a monthly stipend. Questions regarding the pathology residency programs should be addressed to either [Dr. Ghazi Zaatari](#) (Chairman, Dept of Pathology & Lab Medicine) or [Dr. Ayman Tawil](#) (Residency coordinator, Dept of Pathology & Lab Medicine).

## RESIDENCY TRAINING PROGRAM Laboratory Medicine

### DESCRIPTION

The residency consists of a three year training program. The first two years consists of core rotations in six sections: Microbiology & Serology (6 months), Biochemistry & Endocrinology (4 months), Hematology (4 months), Special Procedures (4 months), Blood Banking (3 months), Cytogenetics (1

month). Special procedures includes flow cytometry, coagulation, platelet aggregation, HLA typing, and determination of hemoglobin variants by HPLC. The third year is a flexible year in which the resident may concentrate on areas of interest and is expected to participate in a research project. This residency program satisfies the requirements set by the Lebanese government for obtaining a certification of specialty in Laboratory Medicine.

## GENERAL OBJECTIVES

The main objective of the training program is to give the residents a firm grasp of the methodologies, principles, and interpretation of clinical laboratory tests. They will also have the opportunity to acquire hands-on experience with specimen handling, laboratory procedures, and automation. Residents are expected to become familiar with quality control methods, troubleshooting, and laboratory safety rules. Proper reporting of test results and interaction with clinical colleagues are emphasized. In addition to service-oriented training, this program also encourages research and method development.

## SEMINARS

Residents will participate in a structured program of intradepartmental seminars (resident presentations, journal clubs, and case discussion sessions). A series of lectures in laboratory medicine will also be given by the faculty. Residents are welcome to attend extra-departmental conferences provided that the timing does not conflict with their responsibilities in the department.

## RESIDENT EVALUATION

There will be a yearly standardized resident in-service exam (RISE) which is offered by the American Society of Clinical Pathology (ASCP). There will also be a separate annual evaluation of the residents by each faculty member based on performance in the various lab sections and on participation in the seminars.

Suggested Training Objectives and Duration in Clinical Microbiology Residents for Laboratory Medicine the general training rotation should concentrate on acquiring practical (hands on) skills in various procedures and tests in addition to applying the practical knowledge in interpretation of tests results and their impact on patient care.

## A SUMMARY OF OVERALL OBJECTIVES ARE AS FOLLOWS

- Exposure to overall operation flow of work at various sections.
- Acquire knowledge about the different and proper types of specimens needed and used in investigation by different test.
- Acquire technical skills in lab procedures performance and interpretation
- Identification of commonly occurring organisms
- Understanding basis of test and media reactions
- Be able to perform & interpret antimicrobial susceptibility tests
- Perform & interpret rapid procedure for detection and identification of organisms
- Have an insight on the interpretation and limitation of tests

- Be able to advise physicians on different tests and procedures related to lab aspects and their interpretation as well as to answer their inquiries.

### THE METHODS OF TRAINING SHOULD INVOLVE DIFFERENT ASPECTS AS FOLLOWS

Each trainee should be available in the section all through the duration of his training and should perform tests himself after adequate time of observation

Use of unknowns

Case discussions

Involvement in projects and/or development of tests/procedures

### THE DURATION OF TRAINING IS SUGGESTED AS FOLLOWS

2 1/2 months in Bacteriology section covering procedures and/or identification for aerobic and anaerobic bacteria, mycobacteriology, mycology, antimicrobial susceptibility testing and non-cultural detection methods (1 1/2 months first year, 1 month second year)

1 1/2 months in serology section (1 month first year, 1/2 month second year)

1 1/2 months in parasitology/microscopy section (1 month first year, 1/2 month second year)

1/2 in media preparation (1st year)