Description: Research & Clinical Fellow Program / Shanghai division is a program that allows Einstein medical students to take research and clinical electives at Shanghai Jiao Tong University School of Medicine (SJTUSM). It provides an elective rotation opportunity for medical students in China and operates through the Global Health Institute at Einstein. It ensures adequate supervision of medical students at the training level and all selected teaching institutions in China are in accordance with these principles.

Definitions: The Research & Clinical Fellow Program / Global Health Institute at Einstein provides a supportive and challenging educational environment in which medical students of diverse backgrounds can prepare themselves for careers characterized by commitment to excellence in service to others through patient care, research, and teaching in different cultures. This program is designed to provide medical students with the knowledge, skills and attitudes that serve as the basis for competent and compassionate clinical practice, scholarly research and public service. Medical students are encouraged to learn about diversity in medicine and clinical practices to develop a lifetime of responsible and committed practice of medicine.

ClinCal Rotation Goals and Objectives

Overview
This rotation provides an opportunity for first year and fourth year residents to have an intimate one-on-one interaction with attending staff, to observe a large number of anesthesia procedures, surgical and medical cases and to be exposed to regional specific cases rarely seen in the US. This rotation also allows the medical students to improve communication skills in Chinese with patients and hospital staff, and gain better understanding of the multidisciplinary approach to medical care.

Goals
Exposé students to a culturally diverse medical working environment, enhance student’s medical knowledge, accelerate the learning process of Chinese traditional medicine, and participate in scholarly activities through research and interactive educational sessions.

Objectives
An Einstein student is expected to:
- Demonstrate patient care proficiency in obtaining appropriate medical history and physical examination, formulating a differential diagnosis and related treatment plan.
- Communicate and incorporating compassion, professionalism and appropriate medical knowledge when interacting with patients, family members and colleagues.
- Demonstrate capability in grand round case presentations.

Research Laboratory Rotation Goals and Objectives

Goals
Help medical student who are interested in clinical and basic science research develop creative thinking, generate research ideas and learn fundamental laboratory skills.
OBJECTIVES

- Enhance learning through exposure to the process of generating and testing hypotheses
- Provide insight into data analysis and interpretation
- Allow student in contact with clinical investigators or basic scientists to establish an overseas connection for their future career development

Research project selection process:
Step I. Identify the type of research experience the medical student would like to pursue (clinical versus basic science)
Step II. Identify a project of special interest to the medical student that offers the kind of experience medical students are looking for and that is feasible within the time the medical student is available
Step III. Identify potential mentors. This will most often be based on the research area or topic

SUPERVISION:

Supervision Guidelines: Communication and collaboration between English-speaking supervising faculty member and medical students is required. Identification of the respective duties and responsibilities of supervising faculty member and medical students provides the foundation upon which supervision is based.

Components of Supervision:
- Educational objectives are defined
- The supervising faculty member assesses the skill level of the medical students by direct observation
- Evaluation and feedback are integrated into the progression

At all times, and at any level, the medical student has access to advice and direction from the English-speaking supervising faculty member.

Research Laboratory Rotation:
The medical student will be able to identify an available supervising scientist at all times during laboratory.
- A supervising faculty member will be available to medical students during the entire laboratory rotation. Each experimental result will be discussed with the supervising practitioner frequently to ensure the optimization of the experiment.
- The supervising faculty member will teach medical student the rational of the research study as well as provide reading materials for better understanding the background knowledge.
The supervising faculty member will teach medical student all experimental aspects including assay design, result interpretation, trouble shooting, data presentation and paper writing.

Clinical Observation Rotation:
A supervising faculty member will be present and teach medical students during observing clinic procedures including central and peripheral lines, anterior line, lumbar punctures, spinal anesthesia epidural anesthesia, intubation, acupuncture, etc.

MISCELLANEOUS

Overview
This program provides global experiences in several fields, including anesthesiology, hematology, cardiology and nuclear medicine to best suit Einstein students' interests. Rotation sites including Ren Ji Hospital’s four campuses, Eastern Hepatobiliary Surgery Hospital, Re Jing Hospital, etc. Einstein medical students may take the SJTUSM rotation for 1 or 6 months on a research and/or clinical elective, normally 4 to 10 week in the summer and 4 to 10 week in the spring. The program may be customized to meet the needs of the students. Fluency in Chinese is preferred, but not required if the student has taken the Chinese Medical Terminology Course from Einstein or Chinese Language Training and Culture Awareness program from Montefiore Medical Center. SJTUSM waives tuition. The majority of expenses including travel cost, room and board, and local transportation are covered by Einstein Global Health Funding.

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