CLINICAL MEDICAL SCIENCE PROGRAM

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American International School of Medicine

CLINICAL MEDICAL SCIENCE PROGRAM

After successful completion of the Basic Science program students enter the clinical science portion of their medical degree program. The clinical science component consists of 78 weeks of clinical rotations through various medical specialties at hospitals / clinics in Guyana, the United States, and or England which are approved by American International School of Medicine (AISM).

AISM has affiliations with teaching hospitals in England, Guyana, South America, Trinidad, and United States making it possible for graduates to complete their entire Medical Degree within the same country, thus meeting the most stringent of state requirements in the United States for licensure. During these clinical rotations, students will work directly with physicians and hospital staff, conducting physical examinations, laboratory analysis, presenting cases, and attending workshops, conferences and grand rounds. All rotations are scheduled through the clinical dean's office and the designee who is usually the clinical coordinator.

During the clinical science program, students will complete 56 weeks of core rotations in surgery, internal medicine, pediatrics, psychiatry, family medicine, and obstetrics and gynecology. The remaining 22 weeks are elective rotations, which students may select based upon their projected medical specialty.
Students are encouraged to do more than 22 weeks of elective rotations to exceed the minimum requirement, thus acquiring more clinical knowledge and experience before graduating from medical school.

ROTATION	NO. OF WEEKS
Internal Medicine	12
Surgery	12
Family Medicine	8
Obstetrics & Gynecology	8
Pediatrics	8
Psychiatry	8
TOTAL	**56**

Note: Core rotations should be completed before registering for elective rotations

CLINICAL SCIENCES CORE - COURSE DESCRIPTION

Each AISM student is required to study and be ready to present and answer questions on all of the study topics as they complete each clinical rotation. A written presentation on each topic must be in the students' folder. Preceptors may assign additional topic(s) and they should be added to the list and a written copy of the presentation must be included in the student's folder. Students are required to pass a comprehensive exam for each core rotation. (Internal medicine, Family Medicine, Ob/Gyn, Psychiatry, Pediatrics, and Surgery). This information will form the basis of the AISM comprehensive exam part II. Before graduation each student must pass the AISM Basic Science comprehensive test parts I and II and or the USMLE steps I and II. After each rotation a copy of the folder must be delivered to the clinical coordinator of AISM. The student evaluation must be mailed from the preceptor / consultant / clinical coordinator to the school's registrar.

The Clinical Science Program plays a very integral part in the preparation for your USLME Step 2 (CS) and (CK) and ultimately for the practice of medicine at highest possible level. The main objectives are to:

1. MAKE THE CONNECTION BETWEEN BASIC SCIENCE AND CLINICAL SCIENCE

- Understand importance of all the basic sciences to evidence-based clinical care and prevention, including how some advances in basic science develop into clinical issues.
- The dynamic nature of knowledge of health problems, including an appreciation of the historical perspective in the development of views on various health conditions.
- Better appreciate the understanding and Role of Medical Ethics in Health Care.

2. DEVELOP BASIC CLINICAL SKILLS

- Medical interviewing, taking medical histories and chart patient information
- Physical examination
- Synthesize findings into a diagnosis
- Formulate treatment plan
- Manage common and uncomplicated medical problems in collaboration with the attending physician
- Perform basic clinical procedures, eg. Suturing, laboratory tests etc

3. DEVELOP PERSONAL AND PROFESSINAL SKILLS

- Communicate effectively
- Document and present information in a concise, logical and organized manner
- Standards of compassion, respect and ethics in the practice of medicine
- Help to better interact with patients, health care providers and the community in which you work.
- Recognize the role and impact of culture on medical care and the socioeconomic problems.
- Provide counseling and patient education

4. FORMULATE AN AREA FOR SPECIALIZING

Utilize the basic clinical skills and knowledge developed during the clinical clerkships and explore specialty areas within the field of medicine.

Internal Medicine (12 weeks)

Students build on skills acquired in physical diagnosis to include the completion of a thorough history and physical examination of primarily adult patients. Students will be a part of the clinical management team and given responsibilities for certain contact aspects of direct patient care under the close supervision of a preceptor. Lectures will include the management of commonly encountered disease processes as will as an introduction to the use of diagnostic procedures. Students will be given direct assignments for research and are expected to present them at clinical conferences.

Recommended books: Andreili, Cecil Essentials of Medicine, 5th ed., 2003 Manual of Medical Therapeutics (Washington Manual), 30th edition. NMS Medicine, latest edition Myers Williams & Wilkins and Internal Medicine, 4th edition Stein, Mosby-Year Book.

The following topics require written presentations. 500 study questions should be reviewed.

1. **Coronary Artery Disease and Acute Coronary Syndromes**
2. **Congestive Heart Failure**
3. **Pulmonary embolism**
4. **Pneumonia**
5. **Anemia**
6. **Cerebrovascular Disease**
7. **Leukemias**
8. **Alcoholism**
9. **Renal Failure (Acute and Chronic)**
10. **Diabetes mellitus**
11. **HIV Disease**
12. **Chronic Obstructive Pulmonary Disease**
13. **Fluid and Electrolyte disturbances**
14. **Rheumatologic Disorders (OA,RA,Scleroderma,SLE)**
15. **Tuberculosis**
16. **Allergic Disorders and Anaphylaxis**
17. **Acid Base Disorders**
18. **Asthma**
19. **Hypertension**
20. **Hyperlipidemia**
21. **Dementia**
22. **Gastrointestinal Bleeding**
23. **Viral Hepatitis**

Family Medicine (8 weeks)

Students will be introduced to scope of the family physician and their role in primary care. They will acquire additional skills in the areas of interviewing, counseling, and focused clinical evauations and the use of clinical consults. The students will see patients in both the outpatient and inpatient settings. The student will be involved in the care of infants, children, adults, and the elderly. Preventive care and health maintenance will be emphasized.

Recommended books: Slone, P.D. Essentials of Family Medicine, 4th ed., 2002
Lipsy, M. Blueprints in Family Medicine, 2003

The following topics require written presentations. 500 questions should be reviewed.

1. **Primary Care Health Maintenance**
2. **Evaluation of Headaches**
3. **Evaluation of Chest Pain**
4. **Evaluation of Back Pain**
5. **Evaluation of Fatigue**
6. **Well Child Examination**
7. **Diabetes Mellitus**
8. **Dermatitis/Eczema**
9. **Urinary Tract Infection**
10. **Depression**
11. **Anxiety Disorders**
12. **Acute Upper Respiratory Infections**
13. **Allergic Rhinitis**
14. **Degenerative Joint Disease**
15. **Congestive Heart Failure**
16. **Hyperlipidemia**
17. **Headache**
18. **Pneumonia**
19. **Anemia**
20. **Obesity**
21. **Skin Infections**
22. **Otitis media**
23. **Hypertension**
24. **Prenatal care**
25. **Asthma**

Surgery (12 weeks)

Students will be introduced to disease processes that require various levels of surgical intervention. Initially, students will be taught the policies and procedures of the operating room which include scrubbing and maintenance of sterile technique. Opportunities will be provided to conduct preoperative histories and for direct practice of simple procedures such as suturing, debridement and wound care on patients using clinical models. Students may be able to observe and assist during various procedures in the clinic and/operating room and participate in the follow-up and treatment of the post surgical patients.

Recommended Books: **Lawrence, Essentials of General Surgery, 3rd ed., 2000.**

The following topics require written presentation. 500 study questions should be reviewed.

1. **Preoperative and Postoperative Care**
2. **Pancreatitis**
3. **Acute Abdominal Pain**
4. **Pancreatic cancer**
5. **Rectal Bleeding**
6. **Polyps (Juvanile and familial)**
7. **Gallbladder Disease**
8. **Diverticulosis**
9. **Breast Cancer and other Breast Disorders**
10. **Bowel Obstruction**
11. **Gastric Carcinoma**
12. **Colorectal Cancer**
13. **Pneumothorax**
14. **Diagnosis and Management of Shock**
15. **Management of The Multiple Trauma Patient**
16. **Prostate Cancer**
17. **Carcinoma of the Larynx**
18. **Facial Trama**
19. **Renal Carcinoma**

Obstetrics and Gynecology (8weeks)

Students will be introduced to the normal course of pregnancy to include prenatal care, labor, delivery and the postpartum period. Students will be taught the fundamentals of a proper obstetric and gynecologic history and examination. Students will also have lectures and direct experience with live births, complications of pregnancy and delivery. Students will learn the fundamentals of family planning, various disease processes, and how to deal with patients with sexually transmitted diseases.

Recommended books: Hacker and Moore, Essentials of Obstetrics and Gynecology, 3rd ed., Williams and Wilkins, 1998

The following topics require written presentation. 500 study questions should be reviewed.

1. **Routine Prenatal Care**
2. **Normal Labor and Delivery**
3. **Fetal Heartrate Monitoring**
4. **Differential Diagnosis of Bleeding during pregnancy**
5. **Sexually Transmitted Diseases**
6. **Menopause**
7. **Pelvic Inflammatory Disease**
8. **Gestational diabetes**
9. **Gynecological cancers**
10. **Gestational trophoblaastic disease (complete and partial)**
11. **Vaginitis**
12. **Abnormal Uterine Bleeding**
13. **Vaginal Bleeding and Pregnancy**

Pediatrics (8 weeks)

This clinical rotation introduces the student to the challenging medical treatment of infants, children and adolescents in the inpatient and outpatient settings. Students will learn to take histories and perform physical examinations on well infants and children. The diagnosis and treatment of common illnesses will be emphasized, but the student will have an opportunity to learn about the more rare congenital as well as acquired disorders.

Recommended books: Behrman, Nelson's Essentials of Pediatrics, 2001

The following topics require written presentation. 500 study questions should be reviewed.

1. **Normal Growth and Development**
2. **2.Neonatal Jaundice**
3. **Neonatal Sepsis**
4. **Common Neonatal Problems**
5. **Evaluation of Fever**
6. **Common Skin Problems**
7. **Bacterial Meningitis**
8. **Otitis media**
9. **Pediatric Health Maintenance**
10. **Common Gastrointestinal Problems**
11. **Pediatric Asthma**
12. **Immunizations**
13. **Child Abuse**
14. **Respiratory Infections in Infants and Children**
15. **Pubertal development**

Psychiatry (8 weeks)

In a primarily institutional setting and outpatient settings, the student will learn about the major psychiatric illnesses such as schizophrenia, affective and anxiety disorders. Special emphasis will be placed on the difference between organic and functional mental illnesses through taking a proper psychiatric history and performing a mental status examination. Students will be instructed in the judicious use of major classes of psychotropic medications.

Recommended books: Goldman, John. Review of General Psychiatry, 5th ed., 2000.

The following topics require written presentation. 500 study questions should be reviewed.

1. **Global assessment including mini mental status examination**
2. **Biological theories of mental illness**
3. **Schizophrenia**
4. **Depression**
5. **Differential diagnosis of mood disorders**
6. **Grief**
7. **Borderline vs Narcissistic disorders**
8. **Delirium vs Dementia**
9. **Anxiety disorders**
10. **Somatoform disorders**
11. **Dissociative disorders**
12. **Human sexuality**
13. **Conduct and disruptive behavior disorders**
14. **Substance-Abuse**
15. **Substances of abuse**

Elective Rotations (22 weeks)

Students will have a minimum twenty - two weeks of elective rotations. Guidance will be given to each student in terms of interest and preparation for a future residency. Recommended electives include family medicine, clinical preventive medicine, cardiology, radiology, neurology, emergency medicine and pathology, dermatology, rheumatology, and pulmonary medicine Podiatry/Foot and Ankle Surgery. Other subspecialties will be made available depending on each student needs.

Topics for written presentations in elective rotation will be at the descression of the preceptor. The original report(s) must be submitted to the registrar's office at the end of each rotation.

ROTATIONS	NO. OF WEEKS
Anesthesiology	4
Cardiology	4
Dermatology	4
Emergency Medicine	4
Endocrinology	4
Ear, Nose & Throat	4
Family Medicine	4
Gastroenterology	4
Hematology/Oncology	4
Neurology	4
Ophthalmology	4
Orthopedics	4
Osteopathic Medicine	4
Physical Medicine & Rehabilitation	4
Pulmonary Medicine	4
Radiology	4
Rheumatology	4
Sports Medicine	4
Tropical Medicine	4

NOTE: All presentations are due at the end of each rotation and students should make arrangements to take the comprehensive examination for each rotation. Please ensure that your evaluations are completed and sent to the registrar in a timely manner.

GRADING SYSTEM

Grades are assigned at the conclusion of each course. The following grading scale is used at AISM for the clinical science Evaluation. Grades are accumulated on the Basis of Clinical Evaluation which is 70% and a written comprehensive examination for 30% of the total Grade.

Excellent	**A**	**100 % to 90 %**
Above Average	**B**	**89 % to 80 %**
Satisfactory	**C**	**79 % to 70 %**
Improvement Needed	**D**	**69% to 60 %**
Unsatisfactory	**U**	**Below 60 %**
Incomplete	**I**	**Incomplete**
Withdrawal	**W**	Withdrawal without academic penalty (must withdraw from course on or before the 7th week of course)
Transfer	**T**	**Credit transferred from an Equivalent Program**

Suggested Readings for Clinical Program

Bakerman,Seymour. **ABC"s of Interpretive Laboratory Data**,5th ed., 2014**

Hancock, Jim: **The Practitioner's Pocket Pal,** MedMaster, Inc.

Tallia et. al., **Swanson's Family Practice Review**,8th ed., 2016**

Sloane, Essentials of Family Medicine, 6th ed., 2011.**

Toy and Briscoe: **Case Files in Family Medicine**, 4th ed., 2016**

Tarascon Pocket Pharmacopeia, Classic Shirt Edition, 2002

Hacker and Moore: **Essentials of Obstetrics and Gynecology**, 6th ed., 2015, Williams and Wilkins.**

Braunwald et. al., **Harrison's Principles and Practice of Internal Medicine**,18th ed., 2012*

Andreoli**, Cecil's Essentials of Medicine**, 9th ed., 2015**

Internal Medicine Essentials for Students(Text), American College of Physicians, January, 2015*

Internal Medicine Essentials for Students(Questions), American College of Physicians, January, 2015**

Toy and Patlan**, Case Files Internal Medicine**, 5th ed., 2016

Maxwell Quick Medical Reference.

Novelline**, Squire's Fundamentals of Radiology**, 6th ed.., 2010**

Behrman, **Nelson's Essentials of Pediatrics**, 5th ed., 2005**

Henry and Thompson, **Clinical Surgery**, 3RD ed., 2012 **

Lawrence,**Essentials of General Surgery**, 5th ed., 2012.*

Lawrence,**Essentials of Surgical Subspecialties**, 3rd ed., 2006.*

Black and Andresen**, Introductory Textbook of Psychiatry**, 6th ed., 2014**

** Required Text
*Alternate Text

Revised:December, 2016