Caguas, Puerto Rico
Clinical Sciences

Department of Obstetrics and Gynecology
Obstetrics and Gynecology 324

Student Syllabus

Author: Dr. Luis R. Rojas
Preparation Date: June 2005
Revision Date: June 2011
Revised By: Dr. Rubén Guadalupe
Dr. Mirian Ramos Mercado
Approved by: Curriculum Sub-Committee Year III

Academic Year
2011-2012
Department of Obstetrics and Gynecology

Obstetrics and Gynecology 324

THIRD YEAR

Credits: Eight (8)
Duration: 6 weeks
Clerkship Places: Ryder Memorial Hospital - Humacao
Professional Hospital - Guaynabo
Schedule: Night duty every 4th day during weekdays from 4:00 pm to 12:00 am. Holidays from 8:00 am. To 12:00 am.

Previous Requirements: Approved Basic Sciences Program

COORDINATOR INFORMATION

Professor: Dr. Rubén Guadalupe, Department Director, Ryder Memorial Hospital
Professor: Dr. Marisol Maldonado, Coordinator at Ryder Memorial Hospital
Office hours: By appointment
Telephone: Tel: (787) 852-0768
Professor: Dr. Rivera Mercado, Coordinator at Professional Hospital

FACULTY INFORMATION

Ryder Memorial Hospital-Humacao
Professor: Dr. Antonio Medina
Office hours: By appointment

Professor: Dr. Rivera Gregorio
Office hours: By appointment

Professor: Dr. Rivera Arocho
Office hours: By appointment
RULES

See Description in the Clerkship General Rules File

OBJECTIVES

1. Teach students professionalism and ethical behavior, respect for the patient, and their right to share in the decision making of their treatment by promoting an adequate informed consent.

2. Encourage students to consider always the treatment most beneficial to the patient and to consult freely when his capabilities are insufficient in carrying out the best treatment available for the benefit of the patient.

3. Encourage the student to establish an adequate and healthy doctor-patient relationship based on mutual respect.

4. Teach the student the importance to acquire adequate and up to date scientific knowledge and medical problem solving, as well as the manual ability to implement this knowledge by adequately learning physical examination, surgical, labor and delivery management techniques.

5. Promote in the student the ability to communicate adequately with the patient in order to obtain a good history.

6. To develop in the student the ability to communicate with the patient on his particular condition, prognosis, and plan of action concerning his treatment, thus obtaining the patient’s cooperation.

7. Teach the student to respect a patient’s decision to refuse specific treatment and/or diagnostic procedures, be they because of religious or socio-cultural beliefs.

8. Teach the students an understanding of the basic functioning of the Puerto Rico Health Reform as well as the management of patients in the private sector with other third party payers.

9. Teach the student to consider cost effectiveness in the ordering of laboratory and other diagnostic exams.

10. Teach the students to understand that medicine involves a life long commitment to continuous learning and development of surgical skills.

11. Encourage the student to utilize the digital library for the preparation of case presentations, and for expanding the information received in the lectures by attending staff.

12. Teach student to be aware of other techniques and more recent theories both in the causation of the disease entities but also in their management, diagnosis and treatment.

13. Encourage students to participate in regional American College of Obstetricians and Gynecologist (ACOG) approved seminars given annually in Puerto Rico in order to be exposed to recent international opinions of case management.

14. Make the student to be able to plan the clinical management of a patient and be able to disagree with the attending if necessary.

15. Encourage the student to use his common sense and reasoning abilities in solving clinical problems.

16. Students will be required to participate in any ongoing research program of the Department.
17. Emphasis will be made in the development of clinical skills so the student is able to become proficient in the handling and caring of the Ob-Gyn patient, including learning a careful and gentle physical exam and pelvic exam, learning the management of the three stages of labor, obstetric analgesia and anesthesia, vaginal delivery techniques, suturing and surgical techniques for both cesarean section and gynecologic surgery.

**Daily Work Schedule**

<table>
<thead>
<tr>
<th>Hour</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30- 8:30am</td>
<td>Morning Report and Ward rounds.</td>
</tr>
<tr>
<td>8:30- 9:30 am</td>
<td>Lecture, Conference or Discussion</td>
</tr>
<tr>
<td>8:30-12:00 m</td>
<td>Student report to assigned area of work</td>
</tr>
<tr>
<td>11:00 am</td>
<td>EVERY WEDNESDAY Grand Rounds</td>
</tr>
<tr>
<td>8:00 a.m. to 12:00 m.</td>
<td>EVERY THURSDAY Self-study period</td>
</tr>
<tr>
<td>12:00-1:00pm</td>
<td>Lunch time</td>
</tr>
<tr>
<td>1:00-2:00pm</td>
<td>Evaluation of patients at clinics and labor room</td>
</tr>
<tr>
<td>2:00-3:00pm</td>
<td>Lecture, Conference or Discussion</td>
</tr>
<tr>
<td>2:00 pm TUESDAY</td>
<td>Departmet Meeting once a month</td>
</tr>
<tr>
<td>3:00-4:00pm</td>
<td>Case presentation</td>
</tr>
<tr>
<td>4:00-12:00 midnight</td>
<td>Night duty (Every 4th nigth). At this time didactic presentation of complicated cases are done. The student performs the duties inherent to his role as a third year medical student.</td>
</tr>
</tbody>
</table>

Note: During this rotation students are scheduled to attend gynecologic operating room procedures. Schedule may change according to the clerkship site.
CORE CURRICULUM

The following list includes the core topics that must be covered during the clerkship. The methodology to study these topics may include, but is not limited to conferences, presentations by students, seminars, discussions, team based learning, case based discussions.

- Normal Prenatal Care
- Contraceptives
- Vaginitis
- Abortion
- Fetal monitoring
- Hypertensive disorders in pregnancy
- Medical ethics and risk management
- Physiology of pregnancy (menstruation and pregnancy)
- Physiology of pregnancy (placental and fetal membranes, placental hormones)
- Ob, hemorrhage, puerperal infections
- Preconceptual evaluation
- Normal labor
- Dystocia, CPD, abnormal presentations
- Pre-term labor and its management
- The uterus
- The uterus (neoplasia)
- The vulva
- The vulva (neoplasia)
- Menstrual irregularities
- Cancer prevention
- The cervix
- Sexually transmitted diseases
- Endometrosis
- Menopause
- Urogenital and pelvic floor dysfunctions
- Basic of human sexuality
- Sonography in obstetrics
- Polycystic ovaries
- Infertility
- The breast
- Medical complications of pregnancy
- Physiology of pregnancy (fetal growth and development, maternal adaptations to pregnancy)
- Placental disorders
- Gestational trophoblastic disease
METHODOLOGY

The goal of the clinical clerkship in obstetrics and gynecology is to provide students with a variety of learning experiences which will promote their understanding of normal reproductive transitions such as puberty, pregnancy, and menopause and their appreciation for the effects of reproductive tract problems on the overall physical and emotional health of women of all ages.

By working with clinical teaching teams consisting of a variety of educators, health care providers, and patients themselves, students will learn to promote emotional and physical wellness of their female patients. They will be able to recognize and understand the pathophysiology and approach to management of common and threatening problems related to reproduction.

Students’ clinical and scholarly experiences during the clerkship will encourage lifelong self-learning in any field of medicine they may choose. These activities will be conducted in an environment of respect for patients, students, and teachers.

- Formal Lectures
- Daily morning reports discussions
- Daily clinical teaching rounds
- Assignment to daily outpatient activities
- Daily bedside working
- Library study, research of literature
- Daily patients interdisciplinary management
- Nightly schedule duties: (from 3:00 pm to 12:00 p.m.)
- Antepartum Visit Skills Checklist: The purpose of this visit is to expose the medical student to routine antepartum care. It is important for the student to review the topics below before coming to the office. At the beginning of the office visit, the student and practitioner should review the objectives together. At the end of the visit, the practitioner should check the objectives that have been met and sign at the bottom.
<table>
<thead>
<tr>
<th>Patient type or core condition</th>
<th>Number required to be seen (real or simulated)</th>
<th>Level of student responsibility (P or OB)</th>
<th>Clinical Setting (O, I, E, OR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal prenatal care</td>
<td>3</td>
<td>P, OB</td>
<td>O</td>
</tr>
<tr>
<td>Normal delivery</td>
<td>1</td>
<td>P, OB</td>
<td>I</td>
</tr>
<tr>
<td>High risk prenatal care</td>
<td>1</td>
<td>P, OB</td>
<td>I, O, ER</td>
</tr>
<tr>
<td>Diabetes</td>
<td>1</td>
<td>P, OB</td>
<td>I, O, ER</td>
</tr>
<tr>
<td>Preg. Induced hypertension</td>
<td>1</td>
<td>P, OB</td>
<td>I, O, ER</td>
</tr>
<tr>
<td>Ectopic pregnancy</td>
<td>1</td>
<td>P, OB</td>
<td>ER, I, OR</td>
</tr>
<tr>
<td>Spont. Incomplete abortion</td>
<td>1</td>
<td>P, OB</td>
<td>I, OR</td>
</tr>
<tr>
<td>Dystociain labor</td>
<td>1</td>
<td>P, OB</td>
<td>I, OR</td>
</tr>
<tr>
<td>Family planning</td>
<td>1</td>
<td>P, OB</td>
<td>O</td>
</tr>
<tr>
<td>Medical complications of pregnancy</td>
<td>1</td>
<td>P, OB</td>
<td>O, I, ER</td>
</tr>
<tr>
<td>Elective induction</td>
<td>1</td>
<td>P, OB</td>
<td>I</td>
</tr>
<tr>
<td>Abnormal vaginal bleeding</td>
<td>1</td>
<td>P, OB</td>
<td>O, I, OR, ER</td>
</tr>
<tr>
<td>Cervical dysplasia</td>
<td>1</td>
<td>P, OB</td>
<td>O, OR</td>
</tr>
<tr>
<td>Uterine myoma</td>
<td>1</td>
<td>P, OB</td>
<td>O, I, OR, ER</td>
</tr>
<tr>
<td>Pelvic relaxation</td>
<td>1</td>
<td>P, OB</td>
<td>O, I, OR</td>
</tr>
<tr>
<td>Polycystic ovaries</td>
<td>1</td>
<td>P, OB</td>
<td>O, I</td>
</tr>
<tr>
<td>Ovarian neoplasia</td>
<td>1</td>
<td>P, OB</td>
<td>O, I, OR</td>
</tr>
<tr>
<td>Pelvic inflammatory disease</td>
<td>1</td>
<td>P, OB</td>
<td>O, I, OR, ER</td>
</tr>
<tr>
<td>Sexual Trans. Disease</td>
<td>1</td>
<td>P, OB</td>
<td>O, I</td>
</tr>
</tbody>
</table>

OB= Observation (CR only)  
CR= clinical reasoning  
P= Participation (Hx / PE and CR)  
+O= outpatient setting; I= Inpatient setting; E= emergency room; OR= operating room
LEARNING RESOURCES

A. Textbook:

Title: Williams Obstetrics
Author: F Gary Cunningham and Steven L Clark
Publisher: McGraw Hill
ISBN: 0071497013
Publication Date: 2009
Edition: 23rd
Library Code: WQ 100 6489s 2009
Approximate Cost: US $132

Considerations:

This 23rd edition is a thorough textbook of the entire spectrum of the specialty of obstetrics. It is clearly meant to be the definitive textbook in the field. The authors have greatly expanded upon the previous edition. The quantity and quality of illustrations are appropriate. There are abundant current and pertinent references. The authors have done a superb job of merging a traditional textbook of obstetrics with a textbook of maternal/fetal medicine. New chapters have been added on genetics, prenatal diagnosis, ultrasound, and drugs prescribed during pregnancy. This edition presents a somewhat more balanced treatment of those areas of obstetrics where management remains controversial.

B. References

1. Other Texts:

   ISBN: 0781788072
   Library Code: WQ 100 Bc III 2009
ISBN: 0781768055
Library Code: WP 100 N935 2006

ISBN: 0781770718
Library Code: Q 18 Na OB 2007

ISBN: 0071599797
Library Code: WP 18.2 O14 2009

2. Journals to be reviewed frequently:
   a. Obstetrics and Gynecology – (Green Journal)
   b. American Journal of Obstetric and Gynecology (Gray J)
   c. Survey of Obstetric and Gynecology
   d. Contemporary Obstetric and Gynecology
   e. Journal of Human Reproduction
   f. Clinical Obstetrics and Gynecology
   g. Annual of Obstetrics and Gynecology
   h. Clinics in Perinatology

3. Videos:
   a. Gynecologic pathology course
   b. Gynecology Endocrinologic Course
   c. Video films in:
      (i) Pathology of placenta
      (ii) Resuscitation of the newborn
      (iii) CPR
      (iv) Pre-clampsia and Eclampsia
      (v) Fetal Biophysical Profile
      (vi) Menopause
      (vii) Infertility work-up
      (viii) Endometriosis
      (ix) Gynecology microsurgery
(x) Contraceptive methods

d. Photo-slides self learning Packages in:
   (i) Prenatal Fetal Assessment
   (ii) Fetal monitoring
   (iii) Premature labor
   (iv) Infertility
   (v) Sexual Ambiguity
   (vi) Hirsutism
   (vii) Vulvar disease
   (viii) Vagina and cervix Disease
   (ix) Uterus and Tubes Disease
   (x) Ovarian Disease

4. **CD-ROM:**
   Virtual Education Obstetrics and Gynecology

5. **Internet Resources**

<table>
<thead>
<tr>
<th>URL and content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medical Tribune Gynecology Edition from Medscape</strong></td>
</tr>
<tr>
<td>Includes issues such as healthcare policy and gynecology specialty news.</td>
</tr>
<tr>
<td><strong>Women's Health Hotline</strong></td>
</tr>
<tr>
<td>This monthly newsletter is aimed at keeping the news media abreast of women's health issues.</td>
</tr>
<tr>
<td><strong>Reuters Health News</strong></td>
</tr>
<tr>
<td>General Medical News from Reuters</td>
</tr>
<tr>
<td><strong>CNN Health News</strong></td>
</tr>
<tr>
<td>Current and archived CNN health stories</td>
</tr>
<tr>
<td><strong>OBGYN.Net</strong></td>
</tr>
<tr>
<td>A comprehensive resource for OB/GYN physicians that includes, free MedLine searches, events, CME, clinical cases, forums, directories, vendor links and free homepages!</td>
</tr>
<tr>
<td><strong>University of Pennsylvania Scientific Sites</strong></td>
</tr>
<tr>
<td>This reproduction and women’s health site includes upcoming meetings, societies, and research centers.</td>
</tr>
<tr>
<td><strong>CMA Practice Guidelines</strong></td>
</tr>
<tr>
<td>Practice guidelines developed by the Canadian Medical Association</td>
</tr>
<tr>
<td><strong>Evaluation of Female Lower Genital Tract Neoplasia</strong></td>
</tr>
<tr>
<td>This learning module covers management algorithms for colposcopy and cervical cancer treatment.</td>
</tr>
<tr>
<td><strong>National Library of Medicine</strong></td>
</tr>
<tr>
<td>Presents an historical review of cesarean section</td>
</tr>
<tr>
<td><strong>Medscape Women’s Health</strong></td>
</tr>
</tbody>
</table>
**URL and content**

This comprehensive site includes articles, news, links, CME and much more. Free registration required.

**Obstetrics and Gynecology Reviews for Primary Care**
Hahnemann University has provided abstracts and reviews from the worlds literature categorized by disease and specialty.

**Organizations**

- American Cancer Society
- Society of Laparoendoscopic Surgeons
- Centers for Disease Control
- American Board of OB/GYN
- American Society of Reproductive Medicine
- Association of Reproductive Health Professionals
- The DeCherney Society
- American Association of Gynecologic Laparoscopists
- The American College of Obstetricians & Gynecologists
- Society of Gynecologic Oncologists
- Endometriosis Association
- International Society of Gynecologic Endoscopy
- International Society of Psychosomatic OBGYN
- North American Menopause Society
- OB GYN Society of Singapore
- Joint Commission on Accreditation of Healthcare Organizations
- [http://www.jcaho.org](http://www.jcaho.org)
- World Health Organization
- American Medical Women's Association
- AAMC Academic Medicine
- Royal Australian College of Obstetricians and Gynecologists
- Society of Colposcopy and Cervical Pathology of Singapore

**Medline Searches**

- OBGYN.net Searches
  Free, fuzzy, powerful and fun.
- Community of Science Service
  Resources for Research
  A full range of Internet-based services for the world's researchers.

**Disease Related Links**

- **University of Pennsylvania Oncolink**
  A comprehensive source for gyn-oncology information and links.
- **NCI Cancer Information Database**
  A comprehensive source for cancer information from the National Cancer Institute.
- **IVF.com - Georgia Reproductive Specialists**
  A comprehensive women’s health information source primarily focusing on patient information
- **Turner’s Syndrome**
  The Turner's Syndrome Society of the US
- **National Osteoporosis Foundation**
  Visit this organizations site to review osteoporosis information
<table>
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<tr>
<td><strong>PMS Center</strong></td>
</tr>
<tr>
<td>PMS site run by Dr. Glenn Bair</td>
</tr>
<tr>
<td><strong>IVF.com Endometriosis WWW</strong></td>
</tr>
<tr>
<td>A comprehensive endometriosis resource including medical literature, patient stories, operative photos and videos.</td>
</tr>
<tr>
<td><strong>IVF.com Infertility WWW</strong></td>
</tr>
<tr>
<td>Infertility resource that includes photos, an online text for patients and links.</td>
</tr>
<tr>
<td><strong>Miscarriage</strong></td>
</tr>
<tr>
<td>Miscarriage links and articles</td>
</tr>
<tr>
<td><strong>ESHRE</strong></td>
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<tr>
<td>Society on Infertility</td>
</tr>
<tr>
<td><strong>FertiNet</strong></td>
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</table>
OB/GYN Clinical Clerkship
Oral Presentations

Oral presentations provide an opportunity to work on presentation skills facing an audience.

The presentation should last 40 to 50 minutes, with 5 minutes of questions at the end. Your grade will be based on:

- clarity and focus of the question
- organization of content
- appropriate use of visual aids
- appropriate bibliography
- response to questions from the audience
- handout given to audience

At the presentation you will be asked to provide a handout to complement your presentation and a bibliography. You will also need to provide a visual component to accompany the discussion.

Librarians at the Library/CRA will be providing assistance in performing a literature search and developing a bibliography.

Tips on the presentation:

- Make eye contact
- Speak clearly with appropriate volume
- Dress professionally

Tips on visual aids:

- One main idea per page
- Limit words to <7 per line and <7 lines per page
- Large type for headlines
- Point to ideas as you speak
- Give time for the audience to read

The goal of this exercise is to demonstrate your ability to apply current information to a clinical question and explain it clearly to your teachers and peers. A topic that is reproduced from a textbook is not as interesting or informative as a topic you have researched and reviewed in the most current periodicals. Please present a topic that you would find interesting to listen to. The Ob/Gyn department looks forward to you being our teacher!