



Edward Via College of Osteopathic Medicine

4th Year Clinical Rotation: Reproductive Endocrinology

MED 8400: Elective Clinical
Rotation I MED 8410: Elective
Clinical Rotation II MED 8420:
Elective Clinical Rotation III
MED 8430: Elective Clinical
Rotation IV

COURSE SYLLABUS

Chair	Contact Information
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I. Rotation Description

The clinical rotation in Reproductive Endocrinology and Infertility will involve direct participation in the care of patients in the ambulatory clinic, outpatient ultrasound suites, operating room and inpatient hospital services. The student will gain experience in the management of both routine and complicated post-operative patients and will also assist in surgical procedures, including assisted reproduction and ultrasound procedures. Didactic sessions including lectures, journal club, chapter reviews, and research meetings may supplement the core clinical experience.

II. Rotation Goals

The medical student will acquire and demonstrate knowledge about core areas in reproductive endocrinology and infertility, including:

- a. The basic principles of hormone action including:
 - i. Changes in the hypothalamic-pituitary-ovarian axis and target organs in puberty
 - ii. Normal sequence of pubertal events and ages at which changes occur
 - iii. Normal hormonal changes in menopause and perimenopause
- b. Laboratory assessment of reproductive hormones
- c. The epidemiology, pathophysiology, usual presentation and means of diagnosis as well as common treatment methods for the following areas encountered in reproductive medicine:
 - i. Androgen excess and hirsutism
 - ii. Androgen deficiency in women
 - iii. Polycystic ovary syndrome

- iv. Recurrent pregnancy loss
- v. Menopause, including premature ovarian failure
- vi. Endocrine aspects of female obesity
- vii. Endometriosis
- viii. Uterine diseases including abnormal uterine bleeding
- ix. Osteopenia and osteoporosis
- d. Pharmacologic actions of medications frequently used in reproductive medicine including clomiphene, letrozole, metformin and gonadotrophins with or without GbRH agonists or antagonists, dopamine agonists, thyroid hormones, hormone replacement including selective estrogen receptor modulators (SERMs) and oral contraceptives
- e. Familiarity with the usual presentation, evaluation and common treatment methods for the following disorders:
 - i. Disorders of sexual development
 - ii. Disorders of puberty and amenorrhea
 - iii. Disorders of the hypothalamic system
 - iv. Disorders of the adrenal gland and the thyroid gland
- f. Familiarity with the evaluation and management of an infertile couple including:
 - i. Male infertility
 - ii. Tubal disorders
 - iii. Uterine disorders
 - iv. Ovulatory disorders, ovulation induction for anovulation and unexplained infertility
 - v. Assisted reproductive technology, clinical and laboratory aspects
 - vi. Fertility preservation in cancer and reproductive aging

III. Rotation Design

The rotation in Reproductive Endocrinology will involve direct participation in the care of patients in the operating room, outpatient office setting and inpatient hospital.

IV. Credits

4 week course = 4 credit hours (MED 8400, MED 8410, MED 8420 or MED 8430)

V. Suggested Textbook and References

- a. Clinical Gynecologic Endocrinology and Infertility 8th ed. Fritz, Marc A. and Leon Speroff

VI. Course Grading/Requirements for Successful Completion of the Reproductive Endocrinology Rotation

- a. Attendance according to VCOM and preceptor requirements
- b. Preceptor Evaluation at end-of-rotation

Grading policies, academic progress, and graduation requirements may be found in the *College Catalog and Student Handbook* at: <http://www.vcom.vt.edu/catalog/>.

VII. Clinical Performance Objectives

The end-of-rotation evaluation for this rotation will be completed by your preceptor and is based on clinical core competencies. These core competencies reflect student performance in 6 key areas: communication, problem solving, clinical skills, medical knowledge, osteopathic medicine and professional and ethical considerations. Your end-of-rotation evaluation from your preceptor will be based directly on your performance in these 6 core competencies as described below.

- a. Communication - the student should demonstrate the following clinical communication skills:
 1. Effective listening to patient, family, peers, and healthcare team
 2. Demonstrates compassion and respect in patient communications
 3. Effective investigation of chief complaint, medical and psychosocial history specific to the rotation
 4. Considers whole patient: social, spiritual & cultural concerns
 5. Efficiently prioritizes essential from non-essential information
 6. Assures patient understands instructions, consents & medications
 7. Presents cases in an accurate, concise, well organized manner

- b. Problem Solving – the student should demonstrate the following problem solving skills:
 1. Identify important questions and separate data in organized fashion organizing positives & negatives
 2. Discern major from minor patient problems
 3. Formulate a differential while identifying the most common diagnoses
 4. Identify indications for & apply findings from the most common radiographic and diagnostic tests
 5. Identify correct management plan considering contraindications & interactions

- c. Clinical Skills - the student should demonstrate the following problem solving skills:
 1. Assesses vital signs & triage patient according to degree of illness
 2. Perform good auscultatory, palpatory & visual skills
 3. Perform a thorough physical exam pertinent to the rotation

- d. Osteopathic Manipulative Medicine - the student should demonstrate the following skills in regards to osteopathic manipulative medicine:
 1. Apply osteopathic manipulative medicine successfully when appropriate
 2. Perform and document a thorough musculoskeletal exam
 3. Utilize palpatory skills to accurately discern physical changes that occur with various clinical disorders
 4. Apply osteopathic manipulative treatments successfully

- e. Medical Knowledge – the student should demonstrate the following in regards to medical knowledge:
 1. Identify & correlate anatomy, pathology and pathophysiology related to most disease processes
 2. Demonstrate characteristics of a self-motivated learner including demonstrating interest and enthusiasm about patient cases and research of the literature
 3. Are thorough & knowledgeable in researching evidence based literature
 4. Actively seek feedback from preceptor on areas for improvement
 5. Correlate symptoms & signs with most common diseases

- f. Professional and Ethical Behaviors - the student should demonstrate the following professional and ethical behaviors and skills:

1. Is dutiful, arrives on time & stays until all tasks are complete
2. Consistently follows through on patient care responsibilities
3. Accepts & readily responds to feedback, is not resistant to advice
4. Assures professionalism in relationships with patients, staff, & peers
5. Displays integrity & honesty in medical ability and documentation
6. Acknowledges errors, seeks to correct errors appropriately
7. Is well prepared for and seeks to provide high quality patient care
8. Identifies the importance to care for underserved populations in a non-judgmental & altruistic manner

g. Osteopathic Manipulative Medicine Components

Students must be familiar with the OMM didactic and workshop requirements for their OMS-4 year as described in the Osteopathic Manipulative Medicine website.