



Edward Via College of Osteopathic Medicine

4th Year Clinical Rotation: Maternal Fetal Medicine

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

This elective is designed to provide the participating student with exposure to the breadth of high risk obstetrics. The student will be expected to evaluate and manage high risk obstetrical patients in the office and hospital setting. In the outpatient setting, the student will participate in the genetic counseling sessions, ultrasounds, maternal fetal medicine consults and prenatal visits. During their rotation, students may interact with the maternal fetal medicine attendings, obstetric residents, genetic counselors and ultrasound technicians.

The student will gain experience with the management of acute and high-risk obstetrical conditions by rounding on the antepartum service with the residents and faculty. The student may participate in intrapartum management during this rotation. Vaginal and cesarean deliveries may or may not be included in the students' experience depending upon the established curriculum at the host institution.

II. Rotation Goals

The medical student will acquire and demonstrate knowledge about core areas in Maternal Fetal Medicine, including:

- a. Medical and surgical problems in pregnancy, including:
 - i. Anemia
 - ii. Diabetes mellitus
 - iii. Urinary tract disorders

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- iv. Infectious diseases
- v. Cardiac disease
- vi. Asthma
- b. Isoimmunization and how to prevent this during pregnancy
- c. Management of patients in preterm labor
- d. Fetal growth abnormalities and understanding how the antenatal care may differ in these pregnancies
- e. Antepartum management of multifetal gestations
- f. Prenatal diagnostics
- g. Genetic and perinatal counseling when fetal anomalies are identified

III. Rotation Design

The rotation in Maternal Fetal Medicine will involve direct participation in the care of patients in the OR, outpatient office setting and prenatal inpatient services.

IV. Credits

4 week course = 4 credit hours

V. Suggested Textbook and References

- a. Williams' Obstetrics: 23rd ed. F. Cunningham, Kenneth Leveno, Steven Bloom, John Hauth, Dwight Rouse, Catherine Spong

VI. Course Grading/Requirements for Successful Completion of the Maternal Fetal Medicine 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.