



Trimester: Spring 2012
Course Title: Obstetrics and Gynecology
Course Number: CP-5330.OG
Course Hours: Lecture 3 hrs, Lab None (45 total hours)
Course Credits: 3
Course Days/Week and Time: Tuesday 9:00-9:54am, R100
Wednesday 12:00-12:54pm, R100
Thursday 3:00-3:54pm, R 100

Contact Information:

Course Instructor: Catherine H. Leduc, D.C.

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Edvance360: <http://Edvance360.com/txchiro/>

General Course Description: Study of normal and abnormal gestation, labor and delivery, and diseases of the female reproductive system as it relates to the clinical management and co-management of the female patient throughout her life.

Co-requisites: Anatomy & Gross Embryology II, Endocrine and Neurophysiology, Systems Pathology I

Pre-requisites: Toxicology and Pharmacology

Course Materials:**Required Readings / Texts and or Articles:**

Current diagnosis and treatment Obstetrics and Gynecology, 10th edition, Aland H. Decherney, Lauren Nathan, T. Murphy, NeriLaufer, Lange McGraw Hill, 2006

Recommended Readings / Texts: None**Course Packs / Notes:**

Power points available on 360

CCE / TCC Competencies:

Clinical competencies set forth by CCE (Council on Chiropractic Education) to be derived from this course will be discussed throughout the trimester. Among those scheduled to be discussed are:

1. Professional issues, ethics and morals regarding female patient management.
2. Physical Examination of the female
3. Neuromusculoskeletal Examination of the female
4. Emergency care of the female
5. Chiropractic adjustment or manipulation of the gravid female
6. Non-Adjustive Therapeutic Procedures of the gravid female
7. Record Keeping
8. The Doctor-Patient Relationship
9. Nutritional Counseling
10. Wellness

Learning Outcomes:

1. Demonstrate knowledge of the anatomy of the female system as it relates to her health and welfare.
2. Demonstrate knowledge of the physiology of the female patient as it relates to her health and welfare.
3. Integrate the anatomy and physiology of the female using these basic sciences to support clinical reasoning and decision making as we follow the female along the lifelong continuum of infancy, adolescence, reproductive maturity and menopause.

4. Demonstrate clinical knowledge of these processes sufficient that the Doctor of Chiropractic may safely and effectively manage a pregnancy and provide optimal health to our female patient base through chiropractic medicine.

Learning Objectives:

1. Identify the anatomy of the female reproductive system and its connection to the endocrine system.
2. Understand the process of histophysiology of the pituitary gland, uterine endometrium, ovary, placenta and fertilization.
3. Understand the role of the fetoplacental unit, the interaction with mom. Relate hormone types either steroid or peptide and their respective organ of origin and their targets.
4. Compare basal vs. pregnancy levels of estrogens, progesterone, androgens, prostaglandins and relaxin. Note the mechanism of parturition.
5. List the pulmonary changes of pregnancy and understand the biochemical shifts that take place in a gravid female regarding lipid, carbohydrate, protein and oxygen requirements.
6. Relate endocrine changes, weight gain and oxygen saturation due to pregnancy and compare and contrast the fetal circulation and adult circulation.
7. Describe the immunologic response during pregnancy.
8. Review what constitutes the first prenatal visit and factors for a high risk pregnancy.
9. Distinguish between spontaneous abortion, threatened abortions, complete vs. incomplete abortion, recurrent abortion.
10. Understand congenital and hereditary disorders, autosomal recessive vs. autosomal dominant, sex linked disorders as it relates to pregnancy.
11. Review the principles of teratology and agents of teratology, common drugs, illicit drugs, infectious agents, and effects of various types of radiation including x-ray, CT, fluoroscopy, PET and MRI on pregnancy.
12. Calculate BMI and how that relates to weight gain of pregnancy targets.
13. Know the pathophysiology of Rhesus incompatibility issues. Know first pregnancy normal and the remaining will require mom to receive injections of Rho-Gam prophylactically.
14. Compare and contrast indications of Ultrasound, Amniocentesis, and chorionic villus sampling and Cesarean delivery.
15. List the different obstetrics and gynecological cancers, their presentation, symptoms, incidents and treatments.
16. Identify breast cancers, their differences, presentation, symptoms, diagnostic procedures and treatments.
17. Review sexual transmitted diseases and complications in the female patient.

18. Describe the Ovarian and uterine conditions.
19. Describe and demonstrate the neuromusculoskeletal conditions and proper chiropractic procedures in the gravid patient.
20. Demonstrate examination procedures of the female pelvis and gravid patient with proper cytology collection of specimens (Pap smear).

Teaching Philosophy:

At this advanced level in your education I consider you and I as equal partners with equal responsibility to each other, that is to say I bring the information to class in an organized manner and you put forth the necessary effort to take notes and learn the material

Student Responsibilities:

1. Attend classes regularly, with as few absences as possible
2. Complete assigned homework in a timely manor
3. Devote sufficient time for studying.
4. Being prepared
5. Treat all furniture, equipment, books, and other property with care and respect.
6. Each student is expected to actively participate in a positive manner in the learning process
7. Ask for help when needed.
8. This course emphasizes active learning. Before class, I expect you to read and think critically about the materials for the past and coming week.
9. Valuing the opinion of others and showing respect for peers and the instructor

Course Content and Outline:

Week one: Syllabus

How to take an Obstetrical and Gynecological History

Female Reproductive Anatomy Review

Week two: **Martin Luther King Jr. Day**

Breast anatomy and Examination.

Pelvic Examination/Pap's Smear,

Breast Diseases

Week three: Female Hormones System

Menstrual Cycle

Premenstrual Syndrome
PMS versus Dysmenorrhea.

Week Four: Abnormal Uterine Bleeding and Amenorrhea

TEST ONE

Fertilization

Placentation

Week Five: Fetal circulation

Antenatal Period

Spontaneous Abortion

Week Six: Maternal Physiological and Anatomical
Changes during Pregnancy

Concerns of Pregnancy

Exercise and Nutrition during Pregnancy

Week Seven: **President's day**

Abnormal conditions of Pregnancy

TEST TWO

Week Eight: Back pain during Pregnancy, Chiropractic Adjustments

Normal and abnormal labor

Twin pregnancy

Week Nine: Post-partum Hemorrhage Menopause

Menopause

Pelvic relaxation

Urinary Stress Incontinence

Week Ten: **SPRING BREAK**

Week Eleven: **TEST THREE**

Bartholin's gland cyst and Abscess

Vaginitis and vulvovaginitis

Week Twelve: Pelvic Inflammation Disease (PID)

Sexually Transmitted Diseases, Back pain due to pelvic pathology

Ovarian conditions

Uterine conditions

Week Thirteen: Papanicolaou Smear Gynecology Oncology

Contraception, Infertility

Week fourteen: Learning Objectives for this exercise: Be able to describe and perform a proper female pelvic assessment and breast examination.

Final

Remember:

1. This is a tentative outline and may be altered for the benefit of the class.
2. The 15 week trimester is divided into 13 weeks of course work followed by 2 weeks of finals.

Grade Method and Scale:

90-100 = A 80-89 = B 70-79 = C below 70 = F

Method of Assessment:

Hourly exams will be given at regular intervals and paced somewhat to the tempo of the class at large. Four exams given, 25% each, including the final. Format: multiple choices and Extended matching. Each is worth 50 points. 200 points possible for the written exams.

Prior to each examination you will receive a test blueprint for each examination indicating the number of items, types of assessment and the percentage of each topic.

POLICY INFORMATION:

Attendance Policy:

Regular and punctual attendance of all scheduled classes and laboratories is expected. A student is subject to academic penalty if absences exceed 10%. **4 absences are allowed in this class.** Absences exceeding 20% subject a student to dismissal from a course. Three incidences of tardiness may constitute an absence. If justifiable cause can be shown for the absenteeism, the

student may be permitted to make up missed assignments and maintain enrollment in the class. During the course of their internship, students will be required to be in attendance at the clinic throughout the normal trimester vacation periods unless the clinic is closed. The hours from these periods will be added to the student's clinic requirements.

Missed Examinations

Students must notify faculty before missing any examination. If an examination is missed for good and sufficient reason **and** the student has notified the faculty member in advance, a make-up examination may be given subject to a fee of \$40.00. The fee for the make-up examination is a minimum of \$75.00 if a standardized patient is required for the exam. Additional required standardized patient hours may increase this \$75.00 minimum fee. All intra-term examination must be made up prior to final examinations. Missed final examinations must be made up within the first week of the next semester. A student may be allowed a maximum of two missed examination dates for good and sufficient reason per trimester. These two missed examination dates are for all enrolled courses in a trimester, not for each individual course. Any request for additional make-up examinations will require documentation substantiating the absence and must be approved by the Dean of Academic Affairs.

1. Cellular Phones and Pagers refer to Student Handbook:

Electronic communication devices are to be turned off or placed in silent mode when entering the classroom. This will benefit the learning environment for you, your fellow classmates, and instructors.

Guidance and Counseling refer to Student Handbook:

The Guidance and Counseling Department is prepared to confidentially assist students, faculty, and staff with personal, relationship, and academic mental health-related issues. With appropriate documentation, the Director of Guidance and Counseling coordinates academic-related special needs with instructors.

“For specific procedures on how each policy is enforced see the Student Handbook.”