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1.7 Proctored End of Rotation Exams

Students must complete a proctored COMAT exam near the end of each Core required rotation (excluding IM 1) in the third year. The COMAT exam is an objective assessment of the student’s medical knowledge. The Standard Score (as defined by the National Board of Osteopathic Examiners NBOME) will be used to determine whether or not the student passed or failed the examination. All students will be required to pass the end of rotation exam (COMAT) with a standard score of 80 or greater, which is 2 deviations below the national mean of 100. Standard scores will be converted to a percentage with standard scores greater than 122 being recorded as 100%. The standard score of 79 and below will be listed as 67% and therefore a failure of the COMAT exam. As this is a national standardized exam, failing scores are ineligible for appeal.

In the first week of the core rotations Family Medicine, Internal Medicine II, Pediatrics, Surgery, OB/GYN, Emergency Medicine and Psychiatry, all students are encouraged to take the online sample COMAT Rotation exam. This is a 15 question exam located at https://www.nbome.org/exams-assessments/comat/clinical-subjects/.

The pretest is strongly recommended, but the score will not be included in the course grade.

For the disciplines of Family Medicine, Internal Medicine II, Pediatrics, Surgery, OB/GYN, Emergency Medicine and Psychiatry, it is necessary to pass the COMAT with a standard score of 80 to pass the rotation, regardless of the preceptor grade.

A single retest of the COMAT will be permitted. If the student passes the retest of the COMAT, a final rotation grade of 70 will be recorded and the rotation will be successfully completed. Retesting is only permitted for a single COMAT failure. This excludes the OPP COMAT as that score is not included in any rotation course grade. Specific guidelines for the OPP COMAT are in Section 1.7.1.

If a standard score of at least 80 is not achieved on the repeat COMAT or if a student fails a second COMAT, a failure grade will be recorded and students will have their record remanded to the Student Promotions Committee for review. After review, the committee will make a recommendation to the Associate Dean for Predoctoral Clinical Education (See Institutional Policy E-17).

All COMAT exams, including retests, will be scheduled as to date and time by Statewide Campus personnel. The following important information should be kept in mind when taking the COMAT exam.
• No cell phones or electronic devices are permitted in the exam area during testing.
• Students are expected to be on time for the exam. If a student is late, no additional time will be allowed to take the exam.
• Students with an unexcused absence from the end of rotation COMAT exam will have failed the COMAT exam. If the student is eligible for a retest, the date will be determined by their Regional Dean and/or Director. Exceptions for taking the COMAT end of rotation examination can only be made in the case of dire circumstance or illness at the discretion of the Statewide Campus Regional Dean.
• The COMAT will be 35% of the calculated final rotation grade for the disciplines of Family Medicine, Internal Medicine II, Pediatrics, Surgery, OB/GYN, Emergency Medicine and Psychiatry.
• Professional dress is required at the time of the examination.

1.7.1 Pretest/Posttest OPP

At the end of hospital orientation, a COMAT on OPP will be administered.

All students are encouraged to take the online sample COMAT OPP exam. This is a 15 question exam located at [https://www.nbome.org/exams-assessments/comat/clinical-subjects/comat-principles/](https://www.nbome.org/exams-assessments/comat/clinical-subjects/comat-principles/).

The pretest is strongly recommended, but the score will not be included in the OPP COMAT grade.

The OPP COMAT exam will cover the material outlined in the NBOME objectives and consist of 125 questions that need to be completed within a two and ½ hour time limit. The OPP COMAT exam will be proctored in a Statewide Campus region and will not count as part of any rotation grade nor against eligibility for the retest. (See section 1.17). The date, time, and place for the OPP COMAT will be assigned by the student’s Statewide Campus office.

If a student does not receive a passing score on the OPP COMAT exam equal to or greater than a standard (NBOME) score of 80, the student will be required to take a repeat COMAT OPP exam at the end of the Stookey rotation during year three.

If this is not feasible or if the Stookey rotation has already occurred, the repeat COMAT exam will follow a two-week OPP rotation (must meet the minimal Stookey requirements for manipulation), either on Main Campus in Lewisburg or in the SWC region as available.
This rotation will occur either during the Elective month or during the Dean’s Selective, as determined by the SWC Regional Dean and Director.

The repeat OPP COMAT will not count against the single retest of the core rotation COMAT examinations.

Students that fail more than one OPP COMAT exam will have his/her record remanded to the Student Promotions Committee for review per Clinical Education Manual Section 1.7 Proctored End of Rotation Exams. After review, the committee will make a recommendation to the Associate Dean for Predoctoral Clinical Education.

A remediation plan will follow, consisting of at least:

- Four weeks will be made in cooperation with the Department Chair of OPP, including, but not limited, additional readings and ComBank questions.
- The student is required to update his/her Regional Assistant Dean on a weekly basis during the remediation to report progress on studying all materials outlined in the syllabus as well as any additional work assigned and completed to strengthen the student’s knowledge in OPP.
- The student will retake the COMAT OPP end of rotation exam per the Clinical Education Manual Section 1.7 and the approval of both the Associate Dean for OPP and his/her Regional Assistant Dean.
- The student will not be allowed to move from third year to fourth year status without passage of the COMAT OPP exam.
1.17 Stookey Rotations OLM

Students are required to complete a minimum of one “James R. Stookey” OMT rotation in each of their 3rd and 4th years. This requirement will be met using six OPP modules from the A.T. Still University series and two presentations that you can access on eMedley. The modules and presentations represent an osteopathic approach for common diagnoses that you may encounter in Family Medicine or Internal Medicine. Step by Step instructions to access the modules and presentations on eMedley are below:

1. Go to Applications
2. Go to Educate
3. Go to Sections
4. Type/Select 005-1: Statewide Campus Information CO 2020 & CO 2021
5. Select OLM—Stookey Rotation (each presentation and module are listed)

In the 4th year, the Stookey requirement must be completed and submitted for grading no later than the end of April.

Electronic Health Record (EHR) Stookey OMT SOAP Note:

As a mandatory requirement for successful completion of your OMT Stookey Rotations you will be required to submit 1 SOAP note during your Year 3 Stookey rotation and 1 SOAP note during your Year 4 Stookey rotation on a patient encounter included on eMedley (see below for accessing). The Stookey note must be documented in the WVSOM Greenway PrimeSuites' EHR.

Step by Step instructions for completion of the assignment can be found on eMedley:

1. Go to educate
2. Go to Sections
3. Type/Select 005-1: Statewide Campus Information CO 2020 & CO 2021
4. Select OLM—Stookey Rotation
5. Open the first pdf file in the post (EHR_StookeyCase_Instructions_2020)
2.1 Family Medicine I

Course Number: 806 OLM

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other.

A. Introduction

Family medicine provides first contact, ongoing, and preventive care to all patients from Pediatric to Geriatric age groups regardless of gender, culture, care setting or type of problem. The osteopathic family physician must also take into account the four tenets of osteopathic medicine, prevention and screening, coordination of health care, continuity of service, and family and community dynamics.

The principles of Family Medicine are exemplified by these key components:

- Biopsychosocial aspects of care
- Comprehensive care
- Continuity of care
- Contextual care
- Coordination and integration of care
- Population health; patient safety

B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   a. By the end of this rotation the student is expected to possess the knowledge, attitudes and skills to:
      - Assess and manage acute illnesses commonly seen in the office setting.
      - Determine the health risks of patients/populations and make recommendations for screening and health promotion (wellness visits).
      - Discuss a complete history and physical in all age groups, from pediatric to geriatric, which includes an osteopathic structural examination.
• Be able to develop an appropriate assessment and treatment based on the information in a clinical scenario.
• Incorporate appropriate preventive medicine.
• Understand focused evaluations of geriatric patients.
b. By the end of the rotation the student should be able to:
  • Differentiate between common etiologies based on presenting signs/symptoms.
  • Recognize dangerous/emergency conditions that may present with that symptom and know when emergent referral is needed.
  • Describe a focused age appropriate history and physical examination.
  • Make recommendations as to labs/imaging/tests to obtain to narrow differentials.
  • Appreciate the importance of a cost-effective approach to the diagnostic work-up.
  • Describe the initial management of common and dangerous diagnoses that present with that symptom.
c. For each core chronic disease, the student should be able to:
  • Find and apply diagnostic criteria and surveillance strategies for that problem.
  • Describe a focused age specific history, including information on compliance, self-management, and barriers to care.
  • Detail a focused age specific physical examination that includes identification of complications.
  • Locate and evaluate clinical practice guidelines associated with each of the core chronic diseases.
  • Describe major treatment modalities for those problems.
d. Adult Health Maintenance:
  • Define wellness as a concept that is more than “not being sick”.
  • Define primary, secondary, and tertiary prevention.
  • Identify risks for specific illnesses that affect screening and management strategies.
  • Find and apply current guidelines for immunizations.
e. Well child and adolescent visits:
  • Describe the core components of child preventive care—health history, physical examination, immunizations, screenings/diagnostic tests, and anticipatory guidance.
  • Find and apply the current guidelines for immunizations and be able to order them as indicated, including protocols for “catch-up” if immunizations are delayed/incomplete.
• Identify developmental stages and detect deviations from anticipated
growth and developmental levels.
• Recognize normal and abnormal physical findings in the various age
groups.
• Summarize recommended age-appropriate screenings.

2. **Patient Care**
   a. Detail a focused history and physical examination that includes identification
      of complications for chronic conditions.
   b. Detail a chronic follow-up visit with common chronic diseases.
      • Propose an evidence-based management plan that includes
        pharmacologic and non-pharmacologic treatments, and appropriate
        surveillance and tertiary prevention.
   c. Develop an evidence-based health promotion/disease prevention plan for any
      age or gender.
   d. For women: detail a full menstrual, gynecological, and obstetric history.
   e. For men: identify issues and risks related to sexual function and prostate
      health.
   f. Detail a physical examination on an infant, child, adolescent, and adult.
   g. Summarize skills required for advanced history-taking, communication,
      physical examination, and critical thinking.
   h. Incorporate OP&P into the practice of family medicine.

3. **Interpersonal and Communication Skills**
   a. Detail skills required to effectively communicate with patients from the
      pediatric patient to the geriatric patient, communicate/identify with caregivers,
      and establish effective relationships with patients and families.
   b. Discuss how to communicate appropriately with other healthcare
      professionals (e.g. other physicians, physical therapists, occupational
      therapists, nurses, counselors, etc.).
   c. Be able to document an acute and chronic care visit appropriately.
   d. Discuss how to communicate respectfully with patients to encourage lifestyle
      changes to support wellness (e.g. weight loss, smoking cessation, safe
      sexual practices, exercise/ activity/ nutrition/ diet).
   e. Detail how to respectfully educate a patient about an aspect of his/her
      disease using language that most patients understand.
   f. Describe how to provide counseling related to health promotion and disease
      prevention.
   g. Regarding well child visits, be able to identify health risks, including accidental
      and non-accidental injuries and abuse or neglect.

4. **Professionalism**
a. Summarize needed aspects of professional relationships with patients and staff.
b. Describe empathy and cultural competency.
c. Describe responsibility, reliability, and dependability.
d. Explain patient confidentiality/HIPAA regulations.
e. Detail components of respect for peers and all members of the health care team.

5. Practice-Based Learning and Improvement
a. Apply fundamental epidemiologic concepts to practice improvement.
b. Understand how medical informatics/EBM/research can be used to enhance patient care and understand their limitations in the practice of medicine.
c. Demonstrate ability to identify personal knowledge deficits.
d. Demonstrate ability to locate educational resources and strengthen personal medical knowledge.
e. Display commitment to continuous quality improvement.
f. Discuss an evidence-based, step-wise approach to counseling for lifestyle modifications in patient scenario.
g. Practice life-long learning skills, including application of scientific evidence in clinical care.

6. System Based Practice
a. Recognize how patient care and professional practice affect other health care professionals, health care organizations, and the larger society.
b. Use patient-centered, equitable systems of care that recognize the need to reduce medical errors and improve patient safety.
c. Be able to apply quality improvement concepts, including problem identification, barriers to optimal patient care, and design improvement interventions.
d. Be able to describe the nature and scope of family practice and how it interacts with other health professionals.
   • Discuss the value of family physicians within any health care system.
   • Discuss the principles of osteopathic family medicine care.
e. Be able to identify community resources available to enhance patient care.
f. Appreciate the importance of a cost-effective approach to the diagnostic work-up.
g. Have a basic understanding of Medicare, Medicaid, Third Party, and HMO services.

7. Osteopathic Philosophy and Osteopathic Manipulative Medicine
b. Develop an appreciation for the need to treat the entire patient including mind, body and spirit across all ages.

c. Integrate osteopathic concepts and OMT into medical scenarios.

d. Recognize somatic dysfunction across all age groups and how this may impact their overall health.

e. Explain the application of OMT in family medicine across all age groups.

f. Adapt osteopathic treatment modalities to adequately and safely treat those across all age groups.

C. Study Guide

In general, the best approach to studying is to access multiple sources. Universal Notes is a comprehensive online program to facilitate and guide your study.

Online MedEd CaseX has interactive case studies. Choose 20 cases of any Internal Medicine or Pediatrics
https://onlinemeded.org/spa/case-x

This can be supplemented by Rakel, the core reference text. Conn’s Current Therapy and Lange Case Files are also excellent supplemental sources.

D. COMAT Blueprint information Family Medicine

Review the NBOME web site on the COMAT Blueprint for Family Medicine. This will provide a general roadmap for your studies. As you can see, similar to the specialty itself, the Family Medicine COMAT content is broad and fairly evenly distributed.

https://www.nbome.org/exams-assessments/comat/exam-series/comat-family-medicine/

If you have not done so, please take the time to read section 1.17 on the Stookey Rotations.

Pretest/Posttest: Family Medicine

Please refer to section 1.7 Proctored End of Rotation Exams.

E. Required Textbooks

Textbook of Family Medicine, Rakel, et al; Elsevier 9th ed.  
Foundations for Osteopathic Medicine, Lippincott Williams and Wilkins 4th ed

Diagnosis and Plan for Manual Medicine (refer to this for your Family Medicine H&P case write-up).

F. Other Resources

Recommended Texts: These are additional textbooks that you may find helpful and have additional information on the topics for the COMAT blueprint. You will see some of these textbooks listed in the other disciplines as you progress through the Core Courses in the 3rd year.

Cecil Essentials of Medicine; Elsevier, 9th ed.  
Essentials of Family Medicine, Sloane, et al; Lippincott, Williams and Wilkins 6th ed  
Ham’s Primary Care Geriatrics; Elsevier, 6th ed.  
Case Files Family Medicine; McGraw Hill/Lange 4th ed.  
Conn’s Current Therapy 2018; Elsevier

G. Didactic and Reading assignments

Universal Notes (www.myuniversalnotes.com)

The free online resource, Universal Notes, offers for each clerkship:

- Study plan
- Study material
- Question bank

Steps to get started with Universal Notes and the Study Plan:

1. Go to www.myuniversalnotes.com
2. Click SIGN UP
3. Complete SIGN UP and choose Medical Student for version
4. Sign in to Medical Student version using the information (email and password) you used for SIGN UP
5. Click on Study Plans for Family Medicine Clerkship
If you have any questions or problems with accessing or using Universal Notes, please contact:
senioreditor@myuniversalnotes.com

The list of topics for the Family Medicine **Study Plan** is found below. At a minimum, students should try to get through 1-2 topics each weekday and 20 on each weekend day in order to cover the essential material.

**Universal Notes Family Medicine Study Outline**

Students should be familiar with the sections on History Taking, Physical Exam, Labs, Tests, and Treatments as well as pharmacology as well.

**Week One**

**Human Development and Milestones**

- Geriatrics and the Aging Process (Falls, Physiologic Changes)
- Adult Preventative Health

**Cardiovascular**

- Aortic and Abdominal Aneurysm
- Aortic dissection
- Atherosclerosis
- Atrial Fibrillation and Atrial Flutter
- Cardiac arrest
- Carotid Artery Stenosis
- Chest Pain (Angina)
- Congestive Heart Failure
- Coronary Artery Disease
- Deep Venous Thrombosis (DVT)
- Edema and Hypervolemia
- Hyperlipoproteinemias (Hyperlipidemia, Hypertriglyceridemia, Familial Hypercholesterolemia)
- Hypertensive Emergency and Urgency
- Hypotension (Including Orthostatic Hypotension)
- Murmurs
- Myocardial Infarction (MI or Heart Attack)
- Palpitations
- Peripheral Arterial Disease (Arterial Occlusion, Claudication)

**Ear, Nose, and Throat**
• Benign Positional Paroxysmal Vertigo (BPPV)
• Labyrinthitis (Vestibular Neuritis)
• Meniere's Disease
• Obstructive Sleep Apnea and Obesity Hypoventilation Syndrome (Pickwickian Syndrome)
• Otitis Externa
• Otitis Media and Perforated Tympanic Membrane
• Pharyngitis
• Sialadenitis, Parotitis, and Salivary Gland Stones
• Sinusitis

Endocrine

• Adrenal Insufficiency (Addison disease)
• Cushing Syndrome and Disease (Hypercortisolism)
• Diabetes Mellitus
• Diabetic Ketoacidosis
• Diarrhea
• Galactorrhea (Nipple Discharge)
• Hyperparathyroidism
• Hyperthyroidism (Graves Disease)
• Hypothyroidism (Hashimoto)
• Obesity

Week Two

Gastrointestinal

• Abdominal Pain (Flank, Pelvic, Suprapubic Pain)
• Anal Disorders (Fissures, Hemorrhoids, Abscesses, and Fistulas)
• Appendicitis
• Celiac Disease (Celiac sprue, Gluten-sensitive enteropathy)
• Cholelithiasis, Choledocholithiasis, and Cholecystitis
• Constipation
• Diverticular Disease (Diverticulosis, Diverticulitis)
• Gastritis
• Gastroenteritis
• Gastroesophageal Reflux Disease (GERD) and Barrett Esophagus
• Gastrointestinal Bleeding (Melena, Hematemesis)
• Inflammatory Bowel Disease
  o Crohn's Disease
  o Ulcerative Colitis
• Irritable Bowel Syndrome (IBS)
• Pancreatitis
• Peptic Ulcer Disease (PUD)

Hematology
• Overview of Anemia
• Anemia of Chronic Inflammation (Chronic Disease)
• Blood Loss Anemia
• Folate Deficiency Anemia
• Iron Deficiency Anemia
• Vitamin B12 (Cobalamin) Deficiency and Pernicious Anemia

Infectious Agents and Conditions

• Sepsis, Shock, Systemic Inflammatory Response Syndrome (SIRS)
• Bacteria
  o *Borrelia burgdorferi* (Lyme Disease)
  o *Chlamydia trachomatis* (Lymphogranuloma venereum)
  o *Escherichia coli*
  o *Gardnerella vaginalis* (Bacterial Vaginosis)
  o *Haemophilus influenzae*
  o *Helicobacter pylori*
  o *Moraxella catarrhalis*
  o *Mycobacterium tuberculosis*
  o *Mycoplasma pneumoniae*
  o *Neisseria gonorrhoeae*
  o *Neisseria meningitidis*
  o *Staphylococcus aureus*
  o *Streptococcus pneumoniae*
  o *Streptococcus pyogenes*
  o *Treponema pallidum*

Week Three

Infectious Agents and Conditions (continued)

• Fungi
  o Candida species (Candidiasis, Thrush, Onychomycosis)
  o Pityriasis versicolor (Tinea versicolor, Malassezia furfur)
  o Tinea species
• Parasites and Protozoa
  o *Sarcoptes scabiei* (Scabies)
  o *Trichomonas vaginalis*
• Viruses
  o Epstein-Barr Virus (Mononucleosis)
  o Overview of Enteroviruses
  o Hepatitis A
  o Hepatitis B
  o Hepatitis C
  o Herpes Simplex Virus 1, 2 (HSV)
  o Human Immunodeficiency Virus (HIV)
  o Human Papillomavirus (HPV, Condyloma Acuminata, Anogenital Warts)
  o Influenza
• Parainfluenza
  • RespiratorySyncytial Virus (RSV)
  • Rhinovirus (Common Cold)

Integumentary

• Conditions
  • Acne Vulgaris
  • Actinic Keratosis
  • Atopic Dermatitis (Eczema)
  • Basal Cell Carcinoma
  • Contact Dermatitis
  • Epidermal Inclusion Cyst (Sebaceous Cyst)
  • Keratoacanthoma
  • Melanoma
  • Seborrheic Dermatitis
  • Seborrheic Keratosis
  • Squamous Cell Carcinoma
  • Urticaria
  • Warts (Verrucae)

• Procedures
  • Suturing Sutures (Lacerations)

Week Four

Musculoskeletal

• Ankle Sprain
• Back Pain (Lumbago)
• Carpal Tunnel Syndrome
• Compartment Syndrome
• Costochondritis (Tietze Syndrome)
• Dislocations
  • Hip
  • Shoulder
• Epicondylitis (Tennis or Golfer's Elbow)
• Fractures
  • Fractures and Fracture Terminology
  • Geriatrics and the Aging Process (Falls, Physiologic Changes)
• Gout
• Joint Pain and Swelling (Arthritis, Bursitis)
• Meniscal Knee Injuries
• Osteoarthritis (Degenerative Joint Disease)
• Osteomyelitis
• Osteoporosis
• Rheumatoid Arthritis
• Rotator Cuff Injury
• Septic Arthritis (Septic Joint)
• Tarsal Tunnel Syndrome
• Tendonitis (Tendinopathy)
• Patellofemoral Pain Syndrome

**Neurologic**

• Facial Nerve Palsy (Bell Palsy)
• Headache (Cluster, Migraine, Tension)
• Major or Minor Neurocognitive Disorders (Formerly Dementias)
• Meningitis
• Peripheral Neuropathy
• Seizures in Adults (Status Epilepticus, Epilepsy)
• Seizures in Children (Status Epilepticus, Epilepsy, Febrile Seizures)
• Spinal Cord Injury and Disease (Brown-Sequard Syndrome)
• Stroke (Cerebrovascular Accident, CVA, Subarachnoid Hemorrhage)
• Temporal Arteritis (Giant Cell Arteritis)
• Trigeminal Neuralgia
• Vertigo and Dizziness

**Week Five**

**Oncology**

• Overview of Neoplasia and Terminology
• Tumor Growth and Metastasis
• Neutropenia (Immunosuppression)
• Neutropenic Fever
• Introduction to Brain and Nervous System Tumors
• Bladder Cancer
• Cervical Cancer
• Colorectal Cancer
• Lung Cancer
• Lymphoma (Hodgkin, Non-Hodgkin)
• Multiple Myeloma
• Prostate Cancer

**Ophthalmology**

• Conjunctivitis and Red Eye
• Glaucoma
• Macular Degeneration
• Retinopathy (Diabetic, Hypertensive)

**Psychiatric**
• Anxiety Disorders
  o Introduction to Anxiety Disorders
  o Specific Phobia
  o Social Anxiety Disorder (Social Phobia)
  o Panic Disorder
  o Agoraphobia
  o Generalized Anxiety Disorder
  o Cognitive and Behavioral Therapies for Anxiety
• Depressive Disorders
• Somatic Disorders
  o Introduction to Somatic Symptoms and Related Disorders
  o Somatic Symptom Disorder
• Suicide
• Substance Related and Addictive Disorders
  o Introduction to Substance-Related and Addictive Disorders
  o Alcohol Use Disorder
  o Cannabis Use Disorder
  o Opioid Use Disorder
  o Sedative-Hypnotic and Anxiolytic Use Disorder
  o Stimulant Use Disorder

Renal

• Acute Kidney Injury (Acute Renal Failure)
• Acute Tubular Necrosis (ATN)
• Chronic Kidney Disease (CKD) and Endstage Renal Disease (ESRD)
• Glomerular Disease
  o Overview of Glomerular Disease
  o Nephrotic Syndrome and Diseases
    ▪ Diabetic Nephropathy
    ▪ Nephrotic Syndrome
• Hematuria
• Hypertension
• Secondary Hypertension
• Reproductive

Week Six

Gynecology

• Amenorrhea
• Bartholin Cyst and Abscess
• Breast Abnormalities
  o Fibroadenoma
  o Fibrocystic Breast Disease
  o Mastitis and Breast Abscess
• Dysmenorrhea (Premenstrual Syndrome)
• Endometriosis
- Menopause
- Ovarian Cyst
- Ovarian Torsion
- Pelvic Inflammatory Disease (Endometritis)

Obstetrics

- Normal
  - Maternal Physiology
    - Overview of Pregnancy
    - Physiological Changes of Pregnancy
  - Antepartum Care
    - Overview of Pregnancy, Gravidity, and Parity
    - Prenatal Screening Tests
    - Prenatal Diagnosis of Genetic Disease
  - Intrapartum Care
    - Normal Labor
  - Postpartum Care
    - Newborn Screening Tests
  - Lactation
- Abnormal
  - Abnormal Labor and Delivery
  - Spontaneous Abortion and Termination of Pregnancy
  - Ectopic Pregnancy
  - Prolonged Labor, Arrest, Shoulder Dystocia, Malpresentation
  - Postpartum Hemorrhage
    - Postpartum Pituitary Infarction (Sheehan's Syndrome)
    - Postpartum Hemorrhage (Uterine Atony)
  - Intrapartum Fever (Chorioamnionitis)
  - Postpartum Cardiomyopathy
  - Postpartum Depression (PPD)

Respiratory

- Allergic Rhinitis
- Allergies
  - Environmental
  - Food

Week Seven

Respiratory (continued)

- Asthma and Status Asthmaticus
• Adults
  • Children
• Bronchitis (Acute and Chronic)
• Chronic Obstructive Pulmonary Disease (COPD)
• Croup (Laryngotracheobronchitis)
• Foreign Body Aspiration
• Pneumonia
• Pneumothorax
• Pulmonary Embolus
• Restrictive Pulmonary Disease
  • Overview of Restrictive Lung Disease
  • Pneumoconiosis (Anthracosis, Bagassosis, Berylliosis, Byssinosis, Silicosis)
  • Sarcoidosis
• Tobacco Abuse (Second Hand Smoke)

Abuse Toxicology and Environmental Injuries

• Child Abuse and Neglect
• Domestic Violence, Elder Abuse, Stalking
• Heat Related Illness (Non-Febrile Hyperthermia, Heat Stroke)
• Ticks (Tick Bite)
• Trauma

Urinary

• Cystitis (Urinary Tract Infection)
• Dysuria
• Erectile Dysfunction
• Prostatitis
• Pyelonephritis
• Urethral Discharge (Urethritis)
• Urinary Incontinence

Week Eight

Review!

H. Additional Recommendations

Suggested Readings from Rakel’s and Conn’s Current Therapy:

In addition to the Universal Notes, Rakel’s Textbook of Family Medicine is a core reference text. Both primary and supplemental readings are strongly encouraged. Conn’s Current Therapy has brief overviews of commonly encountered conditions and may be especially useful for a quick review.
You can use the Universal Notes subjects as well as the COMAT categories to guide your additional readings.

Because Family Medicine is so broad, there will be significant overlap between sources; don’t hesitate to consult your Internal Medicine, OB/GYN, Pediatric, and Emergency Medicine texts and references as well.

DocCom cases

- Communicating in Specific Situations: # 20 “Family Interview”,
- Communicating in Specific Situations # 24 “Tobacco Intervention”
- Communicating in Specific Situations # 25 “Motivating Healthy Diet and Physical Activity”

**Complete the Discussion Questions.** To access the Doc.Com Cases visit: [http://webcampus.drexelmed.edu/doccom/user/](http://webcampus.drexelmed.edu/doccom/user/) you will log in using your Email address and Password.

I. **Electronic Health Record (EHR) Family Medicine Note**

*Third year students on FM I and fourth year students on FM II are required* to submit a complete History and Physical on a case study utilizing osteopathic diagnosis and treatment to be completed during their Family Medicine rotation [refer to The Medical Write-Up section below for specific instructions].

This must be submitted electronically by the **fifth Friday of the rotation** of the FM I or II rotation.

You will review a patient encounter by video to write-up your case study. This case is also to be used to document and demonstrate the utilization of osteopathic philosophy and, if appropriate, osteopathic diagnosis and osteopathic manipulative treatment in assessment and care of the patient.

The case must be completed and submitted in the Electronic Health Records (Greenway Primesuites’ EHR). It will be graded by WVSOM full time faculty, and the graded case study will be returned to the student electronically with the grader's comments. **No paper submissions will be accepted.**

If the case is unsatisfactory, it will be rejected with comments to improve the H&P. The student will resubmit the case within 10 working days for final review and grade of Pass (>= 70) or Reject (<70). It is strongly recommended that you work with your Regional Assistant Dean if your case is rejected and you are not sure how to improve.
**If the Family Medicine Case is not successfully completed, the student will receive an Incomplete “I” for the rotation. If the “I” is not successfully resolved by six weeks following the completion date of the rotation, the rotation grade will be changed to a Failure.**

Step by Step instructions for completion of the assignment and viewing the video are available on eMedley:

- Go to educate
- Select 005-1: Statewide Campus Information – CO2020 & CO2021 in the Search box
- Search for Family Medicine Case Study Instructions
- Choose EHR FM Case Instructions March 2020--OLM

**The Medical Write-Up**

One of the goals of the Family Medicine rotation is that the student becomes adept at the art of the H&P—gathering, synthesizing and documenting the information important to the care of their patients. There are many good resources available regarding the elements of a complete H&P.

The Chief Complaint is the statement of why the patient is being seen. It is generally given in the patient’s own words.

Regarding the History of Present Illness, this should be a chronological history of the chief complaint. Remember OLDCAARTS. For the Past Medical History and Social history, remember MMAISHIFT and HORSES.

For allergies remember to list the reaction the patient had to the allergen or any intolerance.

For medications, be sure to list the name of the medication, the dosage, frequency and how it is being taken. Remember to include OTC’s and herbals and how they are taking these.

For the family history list the age, health/death of immediate family—parents, siblings, grandparents and children. If the patient does not know his/her family history or was adopted, make note of that.

Your Review of systems (ROS) should include at a minimum 11 organ systems: General, Skin, Head, EENT (eyes, ears, nose, throat and mouth), Neck, Cardiovascular, Respiratory, Breasts, Lymphatics, Gastrointestinal, Genitourinary, Musculoskeletal, Neurologic, Hematological, Endocrine, Allergy/Immunology, and Psychiatric. You need at least 3 pertinent positive or negative complaints/symptoms listed in each of the organ systems.

**Do not state “noncontributory” or “none” in the history.** If the patient tells you they have not had a particular problem it is better to word it as “the patient denies…” Under the physical, do not leave a section blank or state “noncontributory” or “normal” or “WNL”. Tell us what you saw/observed. The Physical Exam should be free texted containing 13 systems with 2 findings for each system.
Please do not simply leave the genitourinary/rectal exams blank or state “deferred”. State why it was not done. Did the patient refuse the exam? If so state, “deferred due to patient request”, or something to that effect. Maybe they had a genital/rectal exam done less than one year ago—then state that.

Under the musculoskeletal/osteopathic exam be sure to refer to your Clinical Skills I and OPP texts to be sure you have the necessary elements included here. Do not list your conclusions; tell us what you found on the physical examination. For example, gait, posture, seated and standing flexion tests, straight leg raising, areas of TART, etc.

There is a space available to list the results of labs, imaging studies, or other tests that may have been obtained previously related to the patient’s chief complaint or prior work-up.

The assessment (diagnosis(es)) is derived from the information obtained in the H&P. This is where you commit to diagnoses and provide insight into your reasoning. When you are unsure of an exact diagnosis you still commit to what you think is most likely and why. Your first diagnosis listed in the assessment should be a diagnosis linked to your chief complaint or the focus of your encounter with the patient. Please remember to include somatic dysfunctions, chronic medical illnesses, and any other pertinent diagnoses for that encounter as well.

The plan should logically follow from the assessment. Each assessment should have a corresponding plan. If stable, you can note the patient is stable and he/she will simply continue current medications, etc.

The plan may include the following:

- Additional diagnostic maneuvers needed, e.g. labs, X-rays, etc…
- Therapeutic procedures, referrals, or medications that you would consider for this patient, e.g. OMT, PT, etc…
- Patient education.
- Remember to include when the patient is to follow-up next and what your plan is if the patient does not respond to your treatment.

A discussion using the four tenets of Osteopathic Medicine and how they assisted you in developing your plan of care should be included at the end of the H&P and is required for every H&P even when OMT is not performed. You will be graded on your consideration for use of Osteopathic Manipulative therapy, although it will not be performed as this case is online.
J. Grading/Calculations

For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.

If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

- The Family Medicine Case Study in Year 3 must be submitted by the fifth Friday of the rotation. A grade of incomplete “I” will be recorded until the case study is successfully completed. If they are not completed after six weeks, the “I” will be converted to a rotation failure “F” and the student will be remanded to the student promotions committee “SPC”.

- Completion of the Preceptor/Site/Course Evaluation should be done at the end of the rotation.

- Note that you will have a standard score of 80 or greater on the COMAT end of rotation exam to pass the Family Medicine rotation/course. Should you score less than a standard score of 80, you will have failed the examination and will be evaluated as per grading policy E-17 to assess for eligibility to retest.

- If the retest is passed with a standard score of at least 80, a 70 will be recorded as the final rotation course grade.

- If the retest COMAT score is below standard score of 80, this will be recorded as a rotation course failure and your file will be remanded to the Student Promotions Committee for review. The committee will make recommendations to the Associate Dean for Predoctoral Clinical Education to repeat the course or other sanctions up to and including dismissal. Please see Institutional Policy: E-17.
Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student needs to inquire if the preceptor/supervising physician has received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office.

The student is responsible for ensuring that the Grade form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
2.2 Internal Medicine I

**Course Number: 810 OLM**

See discussion of Internal Medicine requirements under section 2.3.

2.3 Internal Medicine II

**Course Number: 811 OLM**

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other

A. Introduction

Studying the discipline of Internal Medicine provides the foundational knowledge to formulate a diagnostic and therapeutic plan for all adult medical patients.

The Internal Medicine core course is divided into two four-week rotations, which will address the care provided in the ambulatory and hospital settings. During these two four-week rotations it is important that you read and study the conditions that you see in each of the different settings. It is critically important that you integrate your knowledge of pathology, physiology, pharmacology, OPP, and other basic sciences as you note the patient presentation, signs, symptoms, and laboratory and imaging findings. This will allow you to develop a broad differential diagnosis and ultimately will lead you to a diagnosis and treatment plan. This analytical process will be the foundation for your evaluation and care of patients throughout your career.
B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   a. The student will be able to demonstrate understanding of patient presentation and pathophysiology of common presenting complaints seen in the adult patient, including Cardiovascular Diseases, Gastrointestinal Diseases.
   b. Allergic, Dermatologic, and Immunologic Disorders
   c. Musculoskeletal and Connective Tissue Neurologic Disorders – Endocrine Disorders
   d. Renal Disorders – Infectious Disorders Pulmonary Disorders
   e. The student will demonstrate the ability to evaluate and develop a differential diagnosis for each of the following symptoms/conditions:
      • Chest Pain
      • Syncope
      • Edema
      • Anemia
      • Fatigue
      • Headache
      • Cough
      • Shortness of Breath
      • Fever
      • Abdominal Pain
      • GI bleed
      • Constipation
      • Diarrhea
      • Dizziness
      • Back Pain
      • Joint Pain
      • Rash
   f. The student will demonstrate an understanding of the basic principles and current recommendation for adult Immunizations based on ACIP or CDC guidelines. Age appropriate cancer screenings ex: Breast, Colon, Cervical, Prostate Screenings and their utilization of the USPSTF Database.

2. Patient Care
   a. Develop a differential diagnosis appropriate to the context of the patient care setting and findings.
   b. Develop an understanding of the altered physiology of the geriatric patient and aging process.

3. Interpersonal and Communication Skills
a. Explain how patient concerns and perspectives including cultural and religious influences impact care.
b. Describe how to write the following:
   • different types of medical notes
   • SOAP notes
   • newborn nursery admission notes
   • admission history & physicals
   • discharge summaries
   • procedure notes
c. Describe the capabilities of electronic health records.
d. Explain how to share diagnostic plan of care, and prognostic information with patients and families.

4. Professionalism
   a. Summarize understanding and need for supervision, chaperones and/or assistance.
   b. Explain how sensitivity, empathy and responsiveness to diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation impacts care.
   c. Explain commitment to ethical principles pertaining to provision or withholding of care, confidentiality, informed consent, and business practices, including compliance with relevant laws, policies, and regulations.
   d. Recognize that all patients in emergency situations shall receive care regardless of medical insurance coverage, ethnicity, race, or social economic status.

5. Practice-Based Learning and Improvement
   a. Apply fundamental epidemiologic concepts.
   b. Detail medical informatics, evidence-based medicine, and research.
   c. Identify personal knowledge deficits, strengths, and limits through frequent self-reflection.
   d. Explore the ability to locate educational resources and strengthen personal medical knowledge.
   e. Explain quality improvement.

6. System-Based Practice
   a. Be aware of medication and treatment costs (direct patient costs/insurance coverage) and the impact of these factors on the physician’s treatment plan.
   b. Demonstrate understanding of HIPAA regulations and its impact on the communication of patient care information for patients.
   c. Recognize the need to improve your knowledge base, develop and deliver case presentations and demonstrate these skills by utilizing the local electronic medical record, on line resources and local patient instruction protocols to provide patient instructions.
   d. Understand the training and certification pathways of sub specialties.
   e. Demonstrate an understanding of when it is appropriate to refer to specialists.
7. Osteopathic Philosophy and Osteopathic Manipulative Medicine
   a. Identify common and preferred pain patterns.
   b. Identify key history and physical examination findings pertinent to the working diagnosis and the differential diagnosis.
   c. Use appropriate information resources to determine diagnostic evaluations for patients with common and uncommon medical problems.
   d. Describe how critical pathways or practice guidelines can be useful in sequencing diagnostic evaluations for the patient.
   e. Formulate a differential diagnosis based on findings from the history and physical examination of the patient.
   f. Prioritize diagnostic tests and treatment (including OMT) based on sensitivity, specificity, and cost-effectiveness.
   g. Apply the 4 tenets of osteopathic medicine to patient care.

C. Study Plan

For Internal Medicine, the online learning module will be Online MedEd, using your WVSOM login credentials. There are 55 interactive cases on the CASEX area of Online Med Ed.

You are responsible for 30 for a 2 week rotation and 55 for a 4 week rotation.

https://onlinemeded.org/spa/case-x

Additional reading and study guide will be the Step Up to Medicine text supplemented by the required IM texts such as Cecil’s.

D. COMAT Blueprint

Review the NBOME web site on the COMAT Blueprint for Internal Medicine. This will provide a general roadmap for your studies. However, still take the time to read about your patient encounters and any additional material that your preceptor suggests.

As you can see, similar to the specialty itself, the COMAT content is broad and fairly evenly distributed across the ten disciplines of Internal Medicine.

https://www.nbome.org/exams-assessments/comat/exam-series/comat-internal-medicine/

Pretest/Posttest
Please refer to section 1.7 Proctored End of Rotation Exams.

E. Required Textbooks

Goldman: Goldman’s Cecil Medicine, 25th edition, 2016. Saunders*
Andreoli and Carpenter’s Cecil Essentials of Medicine, 9th edition, 2016. Saunders*
Ham’s Primary Care Geriatrics, Sixth Edition, 2014. Saunders*

F. Other Resources

Pocket Medicine: the Massachusetts General Hospital Handbook of Internal Medicine, Sabatini. 2017

Ferri’s Clinical Advisor 2018. Elsevier*
*available for free on Clinical Key through the WVSOM library

The American Academy of Dermatology (AAD) has excellent free resources available for study

1. The comprehensive skin exam:
   https://www.aad.org/education/basic-derm-curriculum/suggested-order-of-modules/the-skin-exam

G. Didactics and Reading assignments

The foundation of your required study will be comprised of reviewing the material in Step-Up to Medicine.


Step-Up to Medicine is intended to provide the content needed to help you succeed in your internal medicine rotations, a means of self-assessment for preparation for the
COMAT and COMLEX examinations, and a foundation for further study. Students are expected to expound on the information when needed by utilizing other texts and resources (see sections 2.3.D and 2.3.F). This resource provides an outline of the material essential to internal medicine, but provides a knowledge base that may be useful in other disciplines as well, such as Family Medicine, Emergency Medicine, and Surgery.

**Subjects Covered**

- Diseases of the Cardiovascular System
- Diseases of the Pulmonary System
- Diseases of the Gastrointestinal System
- Endocrine and Metabolic Diseases
- Diseases of the Central and Peripheral Nervous System
- Connective Tissue and Joint Diseases
- Disease of the Renal and Genitourinary System
- Fluids, Electrolytes, and Acid-Base Disorders
- Hematologic Diseases and Neoplasms
- Infectious Diseases
- Diseases of the Skin and Hypersensitivity Disorders
- Ambulatory Medicine

Additionally, the student is expected to set time aside each day for reading about patient encounters, preceptor assigned reading, and commonly encountered conditions.

**H. Additional Recommendations**

*Cecil’s Essentials of Medicine* is a foundational textbook and should be in the personal library and heavily referred to by every medical student.

**DocCom Cases**

IM 1: Communicating in Specific Situations #36: Ending Doctor-Patient Relationships

IM 2: Giving Bad News #33

**Complete the Discussion Questions.** To access the Doc.Com Cases visit: [http://webcampus.drexelmed.edu/doccom/user/](http://webcampus.drexelmed.edu/doccom/user/) students will log in using Email address and Password.
I. Grading/Calculations

*Internal Medicine I & Internal Medicine II*

For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.

If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

- Completion of the Preceptor/Site/Course Evaluation should be done at the end of each rotation.

- Note that you will have a standard score of 80 or greater on the IM 2 COMAT end of rotation exam to pass the Internal Medicine rotation/course. Should you score less than a standard score of 80, you will have failed the examination and will be evaluated as per grading policy E-17 to assess for eligibility to retest.

- If the retest is passed with a standard score of at least 80, a 70 will be recorded as the final IM 2 rotation course grade.

- If the retest COMAT score is below a standard score of at least 80, this will be recorded as an IM 2 rotation course failure and your file will be remanded to the Student Promotions Committee for review. The committee will make recommendations to the Associate Dean for Predoctoral Clinical Education to repeat the course or other sanctions up to and including dismissal. Please see Institutional Policy: E-17.

Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student needs to inquire if the preceptor/supervising physician has
received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office.

The student is responsible for ensuring that the Grade Form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other.

A. Introduction

Pediatrics I is the first formal introduction to pediatrics in which students learn about the care of infants, children and adolescents. Children are not “little adults”, as they have unique physiology as they develop, along with a multitude of age specific diseases and conditions.

Pediatrics encompasses preventative and medical care, which includes evaluation of developmental, emotional, and social well-being. Students must learn developmental milestones and become proficient at obtaining psychosocial and developmental histories and performing physical examinations.

In addition, pediatrics provides an introduction to the medical profession to the young patient and can set the tone for future interactions with the healthcare system. Pediatrics is often one of the most fun and rewarding rotations of the third year.

B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   a. Acquire knowledge of normal growth and development, and apply this to a clinical scenario, from birth through adolescence for health supervision and disease prevention.
b. Acquire knowledge needed for the diagnosis and initial management of acute and chronic illnesses of infancy and childhood including common pediatric emergencies.

c. Acquire knowledge needed for the diagnosis and initial management of congenital problems and genetic diseases of infancy and childhood.

d. Develop the knowledge, skills, and strategies necessary for health supervision including knowledge of medications, immunizations and age appropriate anticipatory guidance for nutrition, developmental/behavioral counseling and injury prevention including pharmacology.

e. Select, justify, and interpret clinical tests and imaging with regard to both patient age and pathological processes, including concepts regarding negative and positive predictive value, test sensitivity specifically and cost utilization.

f. Create a list based on the presentation and on physical findings of differential diagnoses for common pediatric disorders and prioritize based on findings and probability. Consider a work-up and treatment plan based on the above.

2. **Patient Care**

   a. Explain interview and physical examination skills required to conduct interviews with children or adolescents and their families and understand age appropriate physical examinations and osteopathic structural examinations.

   b. Explain how to educate patients and/or caregivers and evaluate their comprehension of the diagnosis and treatment plan, including conveying clinical condition and obtaining informed consent prior to procedures.

   c. Discuss how to educate patients and/or caregivers in both well child and a sick child.

   d. Describe how to accurately convey patient issues and needs when transitioning the patient to other members of the healthcare team, families, and parents.

3. **Interpersonal and Communication Skills**

   a. Summarize how to effectively communicate with pediatric patients, their caregivers, and the healthcare team.

   b. Explain how parental and patient concerns and perspectives including cultural and religious influences impact care

   c. Describe how to write the following:
      - different types of medical notes
      - SOAP notes
      - newborn nursery admission notes
      - admission history & physicals
      - discharge summaries
      - procedure notes

   d. Describe the capabilities of electronic health records.

   e. Explain how to share diagnostic plan of care, and prognostic information with patients and families.

4. **Professionalism**

   a. Summarize understanding and need for supervision, chaperones and/or assistance.
b. Detail an understanding of privacy and independence of adolescents and of the private individual interview of an adolescent during the interview process.

c. Explain how sensitivity, empathy and responsiveness to diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation impacts care.

d. Explain commitment to ethical principles pertaining to provision or withholding of care, confidentiality, informed consent, and business practices, including compliance with relevant laws, policies, and regulations.

e. Recognize that all patients in emergency situations shall receive care regardless of medical insurance coverage, ethnicity, race, or social economic status.

5. Practice-Based Learning and Improvement
   a. Apply fundamental epidemiologic concepts.
   b. Detail medical informatics, evidence-based medicine, and research.
   c. Identify personal knowledge deficits, strengths, and limits through frequent self-reflection.
   d. Explore the ability to locate educational resources and strengthen personal medical knowledge.
   e. Explain quality improvement.
   f. Apply guidelines to age-appropriate clinical management.
   g. Recognize disparities in clinical research, access, and delivery of health care to younger populations and how these affect the health of the pediatric population.

6. Systems-Based Practice
   a. Recognize quality patient care systems and how they may affect the larger health care systems.
   b. Discuss the cost and risk-benefit analysis in patient and/or populations-based care in different delivery systems and settings.
   c. Identify available resources providing specialty care required for specific preventative screening and social situations. For example:
      - Parental and child developmental assistance programs
      - Foster care and adoption
      - Abuse, neglect and domestic violence
      - Hospice
      - Programs for special medical needs
   d. Describe reporting requirements for infectious diseases or psychosocial issues, such as child abuse or suicide.

7. Osteopathic Philosophy and Osteopathic Manipulative Medicine
   The Four Tenets of Osteopathic Medicine: 1) The body is a unit; 2) Structure and function are interdependent; 3) The body has self-healing and self-regulatory capabilities; 4) Rational osteopathic care relies on the integration of these tenets in patients care.

   Pediatrics provides an opportunity to experience the application of osteopathic principles utilizing diagnostic and treatment skills that focus on both the visceral and somatic functions of the body as they relate to disease processes and the
patient’s growth and development. Pediatrics is heavily dependent upon the basics of prevention and anticipatory guidance.

C. Study Guide

The core foundation study program of the Pediatrics rotation is the Universal Notes program. Do your best to cover as much of the program as you can. More in-depth readings can be accessed using the reference texts, especially Nelson’s Essentials.

D. COMAT Exam

Take the time to review the NBOME website in regards to the Pediatric COMAT exam.

https://www.nbome.org/exams-assessments/comat/exam-series/comat-pediatrics/

Note that up to 70% of the exam may be focused on:

- Cardiovascular and Respiratory
- CNS, Behavior/Psychiatry
- Gastrointestinal
- Hematology/Oncology/Lymphatic
- Normal Growth and Development

Pretest/Posttest

Please refer to section 1.7 Proctored End of Rotation Exams.

E. Required Textbooks

- Nelson’s Essentials of Pediatrics, 7th edition
- Pediatrics: A Competency-Based Companion

F. Other Resources

- Bright Futures, 4th edition
- Harriet Lane Handbook, 21st edition
• Redbook 2015: Report of the Committee on Infectious Diseases, 20th edition
• UpToDate (www.uptodate.com)

G. Didactic and Reading Assignments

Universal Notes (www.myuniversalnotes.com)

The free online resource, Universal Notes, offers for each clerkship:

• Study plan
• Study material
• Question bank

Steps to get started with Universal Notes and the Study Plan:

1. Go to www.myuniversalnotes.com
2. Click SIGN UP
3. Complete SIGN UP and choose Medical Student for version
4. Sign in to Medical Student version using the information (email and password) you used for SIGN UP
5. Click on Study Plan for Pediatrics Clerkship

If you have any questions or problems with accessing or using Universal Notes, please contact:
senioreditor@myuniversalnotes.com

The list of topics for the Pediatrics Study Plan is found below. Students should focus their reading on weekdays for topics that involve the common patient conditions, and reserve weekend reading for conditions that are unlikely to be encountered. At a minimum, students should try to get through 15 topics each weekday and 20 on each weekend day in order to cover the essential material.

Universal Notes Pediatrics Study Outline

Introduction

The Pediatrics Study Plan contains topics that are considered the highest yield for understanding pediatrics and performing well on the COMAT examination.

Students who complete the entire study outline routinely score 99th percentile on their COMAT exams.
Proposed Study Plan:

- **WEEK 1: NORMAL GROWTH & DEVELOPMENT**
  - Overview and Assessment of Variability
  - The Newborn
  - The First Year
  - The Second Year
  - The Preschool Years
  - Middle Childhood
  - Adolescence
  - Assessment of Growth
  - Developmental-Behavioral Screening & Surveillance
  - Assessment & Interviewing
  - Pediatric Pharmacokinetics
  - Principles of Drug Therapy
  - The Oral Cavity
  - Immunization Practices

- **WEEK 2 – CARDIOLOGY/RESPIRATORY/GYN**
  - Evaluation of the Cardiovascular System
  - Laboratory Evaluation
  - Congenital Heart Disease
  - Cardiac Arrhythmias
  - Cardiac Therapeutics
  - Diseases of the Peripheral Vascular System
  - Respiratory System – Development & Function
  - Disorders of the Respiratory Tract
  - Gynecology

- **WEEK 3 – CNS/BEHAVIORAL & PSYCHIATRIC DISORDERS/ALLERGY**
  - Behavioral & Psychiatric Disorders
  - Nervous System
  - Nutrition
  - Allergic Disorders
  - Skin

- **WEEK 4 – MISC.**
  - Bone & Joint Disorders
  - Endocrine
  - GI
  - GU
  - Hematology
  - Oncology
  - HEENT Infections

Essential Pediatric Topics to Read in Universal Notes Study Plan
History Taking
- History Taking in Newborns
- History Taking in Infants and Children
- History Taking in Adolescents (Preparticipation Sports History)

Physical Exam
- Physical Exam of the Newborn
- Physical Exam of the Infant
- Physical Exam of the Adolescent (Preparticipation Sports Physical)
- Health Maintenance: Birth - 12 Months
- Health Maintenance: 15 months - 5 Years
- Health Maintenance: 6 -18 Years
- Dental Care (Teeth Hygiene, Teething)

Growth and Development
- Developmental Milestones: Birth
- Developmental Milestones: 1 - 6 Months
- Developmental Milestones: 9 - 12 Months
- Developmental Milestones: 15 Months to 5 Years
- Developmental Milestones: 6-10 Years
- Developmental Milestones: 11-12 Years
- Developmental Milestones: 13-18 Years
- Tanner Stages (Puberty and Pubertal Development)
- Stranger Anxiety Disorder
- Sleep or Night Terror Disorder, Nightmares

Immunizations (Vaccines)
- Introduction to Immunizations
- Immunization Schedule
- Special Immunization Considerations
- Influenza Vaccine

Breast Feeding and Breast Milk
- Breast Feeding Benefits and Education
- Breast Milk Composition and Supplementation
- Breast Feeding Complications and Contraindications

Failure to Thrive

Malnutrition and BMI

Obesity
Prematurity and Nutrition

Vitamin Abnormalities
- Vitamin D Deficiency
- Vitamin K Deficiency (Hemorrhagic Disease of Newborn)

Overview of Pediatric Heart Disease

Fetal Circulation

Murmurs

Early cyanotic heart diseases
- Hypoplastic Left Heart Syndrome
- Tetralogy of Fallot
- Total Anomalous Pulmonary Venous Connection
- Transposition of the Great Vessels
- Truncus Arteriosus

Acyanotic Heart Disease and Structural Abnormalities
- Atrial Septal defect
- Coarctation of Aorta
- Patent Ductus Arteriosus
- Ventricular Septal Defect

Valvular Disorders
- Aortic Stenosis
- Mitral Stenosis

Miscellaneous Conditions
- Cardiomyopathy (Hypertrophic Obstructive Cardiomyopathy)
- Kawasaki Disease (Mucocutaneous Lymph Node Syndrome)
- Patent Foramen Ovale (PFO)
- Rheumatic Heart Disease (Rheumatic Fever)

Skin Conditions in Newborns
- Acne Neonatorum
- Erythema Toxicum Neonatorum

Skin Conditions of Infants and Children
- Acne vulgaris
- Eczema (Atopic Dermatitis, Dyshidrotic Eczema, Nummular Eczema)
- Diaper Rash (Diaper Dermatitis)
- Hemangioma
- Mongolian Spots (Congenital Dermal Melanocytosis)
- Seborrheic Dermatitis (Dandruff, Cradle Cap)
• Viral Exanthems and Enanthems

**Infections Conditions of the Skin**
• Cellulitis
• Impetigo
• Molluscum Contagiosum
• Staphylococcal Scalded Skin Syndrome (SSSS, Ritter Disease)
• Toxic Shock Syndrome
• Warts (Verrucae)

**Other Conditions**
• Contact Dermatitis (Allergic, Irritant)
• Drug Allergies (Drug Reactions) and Drug Fever
• Erythema Multiforme
• Pityriasis Rosea
• Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis
• Urticaria (Wheals, Hives)

**Conditions of the Lips, Mouth, Parotid, Teeth, and Tongue**
• Ankyloglossia (Tongue-Tied)
• Aphthous Ulcer (Aphthous Stomatitis, Canker Sore)
• Dental Caries (Cavities), Periapical Abscess, Periodontal Abscess, Pulpitis
• Cleft Palate and Lip (Orofacial Cleft)
• Teeth Abnormalities (Natal Teeth, Fluorosis, Trauma)

**Conditions of the Ear**
• Foreign Body in Ear Including Cerumen Impaction
• Mastoiditis
• Otitis externa
• Otitis Media and Perforated Tympanic Membrane

**Conditions of the Neck**
• Branchial Cleft Cyst (Branchial Sinus)
• Neck Masses
• Thyroglossal Duct Cyst
• Torticollis

**Conditions of the Nose and Sinuses**
• Allergic rhinitis (Hay Fever)
• Epistaxis (Nose Bleed)
• Foreign body: Nose
• Sinusitis

**Conditions of the Throat (Larynx, Pharynx)**
• Epiglottitis
- Laryngotracheobronchitis (Croup)
- Pharyngitis
- Retropharyngeal Abscess
- Tonsillitis and Peritonsillar Abscess

**Conditions of Growth and Development**
- Precocious Puberty
- Short Stature

**Conditions of the Pancreas**
- Diabetes Mellitus (DM)
- Diabetic Ketoacidosis (DKA)
- Infant of Diabetic Mother

**Conditions of the Thyroid**
- Congenital Hypothyroidism (Cretinism)
- Hyperthyroidism (Grave's Disease)
- Hypothyroidism

**Gastrointestinal Conditions of Neonates**
- Diaphragmatic Hernia
- Esophageal and Duodenal Atresia
- Gastrochisis
- Hirschsprung Disease (Congenital Aganglionic Megacolon)
- Jaundice in Neonates (Direct Hyperbilirubinemia, including Dubin-Johnson and Rotor Syndromes)
- Jaundice in Neonates (Indirect Hyperbilirubinemia, Kernicterus, including Gilbert-Syndrome)
- Meconium Ileus and Meconium Plug
- Necrotizing Enterocolitis (NEC)
- Omphalocele
- Tracheoesophageal Fistula

**Conditions of Infants and Children**
- Celiac Disease (Celiac sprue, Gluten-sensitive enteropathy)
- Constipation and Fecal Impaction
- Foreign Body Ingestion
- Fussy Infant (Colic)
- Intussusception
- Malrotation of the Midgut with Volvulus
- Meckel Diverticulum
- Mesenteric Lymphadenitis
- Pyloric Stenosis

**Biochemical Disorders**
• Galactosemia
• Glucose-6-Phosphate Dehydrogenase Deficiency (G6PD)
• Phenylketonuria (PKU)

Genetic Abnormalities
• Angelman Syndrome
• Cystic Fibrosis (CF)
• DiGeorge Syndrome (Velocardiofacial Syndrome, Thymic Aplasia)
• Fetal Alcohol Syndrome (FAS)
• Fragile X Syndrome
• Kallman Syndrome
• Klinefelter Syndrome
• Marfan Syndrome
• Noonan Syndrome
• Osteogenesis Imperfecta
• Potter Syndrome (Sequence)
• Prader-Willi Syndrome
• Sickle Cell Trait
• Tuberous Sclerosis
• Turner Syndrome (45 XO)
• Wiskott-Aldrich Syndrome
• Xeroderma Pigmentosum

Trisomies
• Trisomy 13 (Patau Syndrome)
• Trisomy 18 (Edwards Syndrome)
• Trisomy 21 (Down Syndrome)

Genitourinary Disorders
• Cryptorchidism (Undescended Testes)
• Epididymitis and Orchitis
• Hydrocele
• Hypospadias and Epispadias
• Posterior Urethral Valves
• Testicular Torsion
• Ureteropelvic Junction Obstruction
• Urinary Tract Infection (Cystitis)
• Varicocele
• Vesicoureteral Reflux

Anemias and Associated Disorders
• Overview of Anemia
• Anemia in Newborns, Infants, and Children
• Overview of Hemolytic Anemias
• Iron Deficiency Anemia
• Sickle Cell Disease (Sickle Cell Anemia)
• Thalassemia
• Transient Erythroblastopenia of Childhood (TEC)

Bleeding Disorders
• Factor VIII Deficiency (Hemophilia A)
• Factor IX Deficiency (Hemophilia B, Christmas Disease)
• Immune Thrombocytopenia (ITP)
• von Willebrand’s Disease

Henoch Schönlein Purpura

Hereditary spherocytosis

Splenectomy (Asplenia)

Splenic Injury (Spleen Trauma)

Immune Disorders
• Selective IgA Deficiency
• Severe Combined Immunodeficiency (SCID)

Infectious Agents and Conditions
• Bacteremia, SIRS, Sepsis
• Bacteria
  o Bordetella pertussis
  o Borrelia burgdorferi
  o Chlamyaphila trachomatis
  o Clostridium difficile
  o Escherichia coli
  o Haemophilus influenzae
  o Mycobacterium tuberculosis
  o Mycoplasma pneumoniae
  o Neisseria gonorrhoeae
  o Neisseria meningitidis
  o Pasteurella multocida
  o Staphylococcus aureus
  o Streptococcus agalactiae
  o Streptococcus pneumoniae
  o Streptococcus pyogenes
• Fungi
  o Candida species (Candidiasis, Thrush, Onychomycosis)
  o Pityriasis versicolor (Tinea versicolor, Malassezia furfur)
  o Tinea species
• Parasites and Protozoa
  o Enterobius vermicularis (pinworm)
  o Pediculus humanus (Lice)
  o Sarcoptes scabiei (Scabies)

• Viruses
  o Congenital Cytomegalovirus (CMV)
  o Congenital Herpes Simplex Virus
  o Congenital Rubella
  o Congenital Syphilis
  o Congenital Toxoplasmosis
  o Overview of Enteroviruses
    ▪ Coxsackieviruses A and B (Hand, Foot, and Mouth)
    ▪ Echovirus
    ▪ Poliovirus
  o Epstein Barr Virus (mononucleosis)
  o Hepatitis A
  o Hepatitis B
  o Hepatitis C
  o Herpes Simplex Virus 1, 2
  o Human Herpes Viruses 6, 7 (Roseola, Exanthem Subitum)
  o Human Papillomavirus (HPV, Condyloma Acuminata, Anogenital Warts)
  o Influenza
  o Measles
  o Mumps
  o Parainfluenza
  o Parvovirus B19 (Erythema infectiosum, Fifth disease)
  o Respiratory syncytial virus
  o Rhinovirus
  o Rotavirus
  o Rubella Virus (German measles)
  o Varicella-Zoster Virus (Chicken Pox, Shingles)
  o Yellow fever

Musculoskeletal and Rheumatology
• Club foot (Talipes Equinovarus)
• Costochondritis (Tietze Syndrome)
• Developmental Dysplasia of Hip
• Legg Calve Perthes disease (Avascular Necrosis of Proximal Femur)
• Muscular Dystrophy (Becker, Duchenne)
• Osgood Schlatter Disease
• Radial head subluxation (Nursemaid elbow)
• Rickets
• Scoliosis
• Slipped capital femoral epiphysis (SCFE)
• Torticollis
Nervous System Conditions of Neonates
- Arnold-Chiari Malformation
- Dandy-Walker Malformation
- Intraventricular Hemorrhage (Germinal Matrix Hemorrhage, IVH)
- Neural Tube Defects (Anencephaly, Spina Bifida, Meningocele, Meningomyelocele, Rachischisis)

Nervous System Conditions of Infants and Children
- Cerebral Palsy
- Concussion (Mild Traumatic Brain Injury, MTBI)
- Encephalitis
- Epidural Hematoma (Extradural Hemorrhage)
- Headaches in Children
- Hydrocephalus in Infants and Children
- Meningitis
- Seizures in Children (Status Epilepticus, Epilepsy)
- Subdural hematoma
- Syncope

Oncology
- Ewing Sarcoma
- Leukemia (ALL, AML, CLL, CML, Hairy Cell)
- Lymphoma (Hodgkin, Non-Hodgkin)
- Introduction to Brain and Nervous System Tumors
- Nephroblastoma (Wilms tumor)
- Neuroblastoma
- Osteosarcoma
- Retinoblastoma

Ophthalmology
- Conjunctivitis
- Corneal Abrasion and Ulcer
- Ophthalmia Neonatorum (Neonatal Conjunctivitis)
- Periorbital and Orbital Cellulitis
- Retinopathy of Prematurity (ROP)
- Strabismus/Esotropia/Exotropia

Psychiatry and Behavioral Medicine
- Anxiety Disorders
  - Introduction to Anxiety Disorders
  - Separation Anxiety Disorder
  - Panic Disorder
  - Agoraphobia
  - Generalized Anxiety Disorder
  - Substance-Induced Anxiety Disorder
Cognitive and Behavioral Therapies for Anxiety

- Attention Deficit Hyperactivity Disorder (ADHD)
- Autism spectrum disorder
- Conduct disorder
- Mood Disorders
  - Bipolar Disorder (Bipolar I and Bipolar II)
  - Depressive Disorders
- Eating Disorders
  - Anorexia Nervosa
  - Bulimia Nervosa
- Elimination disorders
  - Encopresis
  - Enuresis
- Intermittent Explosive Disorder
- Oppositional Defiant Disorder
- Suicide

Renal, Electrolyte, and Acid-Base Disorders

- Fluid and Electrolyte Management
  - Dehydration
  - Intravenous and Intraosseous Fluids (Lactated Ringers, Normal Saline)
- Overview of Glomerular Disease
  - Minimal Change Disease
  - Postinfectious Glomerulonephritis
- Proteinuria
- Pyelonephritis

Reproductive, Obstetrical, and Gynecological

- Amenorrhea
- Imperforate Hymen
- Labial Adhesion
- Ovarian Cyst
- Ovarian Torsion
- Pelvic Inflammatory Disease (Endometritis)
- Pregnancy

Respiratory

- Anaphylaxis
- Apnea, Apnea of Prematurity, and Periodic Breathing
- Asthma in Children
- Breath-Holding Spell (Temper-Tantrums)
- Bronchiolitis
- Foreign body Aspiration
- Neonatal Respiratory Distress Syndrome (Hyaline Membrane Disease)
- Pneumonia
• Sudden Infant Death Syndrome (SIDS)
• Transient Tachypnea of Newborn (TTN)

Abuse Disorders
• Introduction to Substance-Related and Addictive Disorders
• Alcohol Use Disorder
• Cannabis Use Disorder
• Cocaine
• Inhalant Abuse (Hydrocarbons)
• Lysergic Acid Diethylamide (LSD)
• Neonatal Abstinence Syndrome (NAS, Neonatal Withdrawal)
• Opioid Use Disorder
• Stimulant Use Disorder
• Phencyclidine (PCP) Abuse

Overdose
• Acetaminophen Toxicity
• Aspirin Overdose
• Iron Toxicity

Environmental Injuries
• Bites (Cats, Dogs, Humans, Rodents, Spiders)
• Burns
• Child Abuse and Neglect
• Gunshot Wounds (Firearms)
• Heat Related Illness (Non-Febrile Hyperthermia, Heat Stroke)
• Shaken Baby Syndrome (Abusive Head Trauma)
• Snake Bites
• Ticks (Tick Bites)

Toxins
• Carbon Monoxide Toxicity
• Caustic Ingestion (Acids and Alkalis)
• Lead Toxicity
• Organophosphate Toxicity

H. Additional Recommendations

DocCom Cases
Communicating in Specific Situations # 21: Communication and Relationships with Children and Parents

Communicating in Specific Situations #22: The Adolescent Interview
Complete the Discussion Questions. To access the Doc.Com Cases visit: http://webcampus.drexelmed.edu/doccom/user/ you will log in using your Email address and Password.

I. Medical Documentation

Reference guides for documentation pertaining to pediatrics are below.

History and Physical Exam for a Newborn should contain:

- Maternal history
- Family history
- Prenatal history
- Labor and delivery history
- Newborn exam
- Relevant labs and diagnostics from mother and newborn
- Assessment and Plan for newborn
- Anticipatory guidance for discharge including
  - Bathing
  - Breast feeding/Formula feeding
  - Circumcision
  - Exposure to crowds
  - Fever
  - Umbilical cord care

History and Physical Exam for the infant, child, and adolescent should contain:

- Chief complaint
- History of Present Illness
- Past Medical History including hospitalizations with relevant dates
- Birth History
- Past Surgical History
- Medications
- Allergies and reactions
- Family history
- Immunizations
- Dietary history
- Social history
- Review of Symptoms
- Physical Exam
- Relevant Labs and Diagnostics
- Assessment and Plan
The progress notes should contain:

- Chief complaint
- History of Present Illness
- Relevant PMH
- Relevant PSH
- Relevant ROS
- Current medications
- Physical Exam
- Relevant Labs and Diagnostics
- Assessment and Plan

J. Grading/Calculations

For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.

If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

- Completion of the Preceptor/Site/Course Evaluation should be done at the end of the rotation.

- Note that you will have a standard score of 80 or greater on the COMAT end of rotation exam to pass the Pediatrics I rotation/course. Should you score less than a standard score of 80, you will have failed the examination and will be evaluated as per grading policy E-17 to assess for eligibility to retest.

- If the retest is passed with a standard score of at least 80, a 70 will be recorded as the final rotation course grade.

- If the retest COMAT score is below standard score of at least 80, this will be recorded as a rotation course failure and your file will be remanded to the Student Promotions Committee for review. The committee will make recommendations to the Associate Dean for Predoctoral Clinical Education to repeat the course or other sanctions up to and including dismissal. Please see Institutional Policy: E-17.
Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student needs to inquire if the preceptor/supervising physician has received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office.

The student is responsible for ensuring that the Grade Form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
2.5 Psychiatry
Course Number: 801 OLM

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other

A. Introduction

No matter which field of medicine you pursue, it is important to understand how a patient’s behavioral health affects their general wellbeing. This rotation will expose you to the complexities of psychiatric diagnoses and psychopharmacology.

Psychiatric diagnoses can be complex, as often longitudinal interviewing is necessary to form an accurate assessment. Many patients have two or three concurrent diagnoses, such as anxiety and depression. The situation can be further complicated by issues such as substance use disorders and social instability. Past students have recommended the benefit of learning about psychotropic medications. This study should include mechanisms of action, drug-drug interactions and common side effects. Many of your medical standardized examinations will emphasize these topics.

We will approach each person individually, utilizing the biopsychosocial model, to come up with diagnoses and treatment plans.

B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   a. Understand the medical and organic etiology causing or contributing to psychiatric symptoms.
b. Understand psychiatric psychopharmacology to include side effects and interactions.
c. Demonstrate an understanding of the most recent DSM (Diagnostic and Statistical Manual of Mental Disorders).
d. Demonstrate an understanding of the symptoms and signs of psychiatric disorders.

2. **Patient Care**
   a. Perform and present a complete psychiatric evaluation (to include differential diagnosis, rationale and treatment plan).
   b. Complete a suicide assessment.
   c. Perform a relevant physical evaluation (e.g., AIMS test, musculoskeletal, tremors, substance abuse).
   d. Demonstrate the ability to educate the patient and support system about the proposed diagnosis, treatment plan, and therapeutic options.
   e. Demonstrate the ability to assess patient’s barriers to treatment and response to therapeutic interventions.
   f. Identify and manage psychiatric emergencies.
   g. Demonstrate an understanding of the biopsychosocial model of diagnostic formulation.

3. **Interpersonal and Communication Skills**
   a. Demonstrate the ability to effectively communicate with a culturally diverse patient population with consideration of demographic and mental status variabilities.
   b. Demonstrate the ability to receive and provide appropriate information with the patient’s support system.
   c. Demonstrate an ability to effectively collaborate with immediate team members (nursing, administration, case managers, therapists, etc.) and external community resource teams.
   d. Demonstrate the ability to appropriately document interactions and treatment plans in a manner that supports the diagnosis and provides continuity of care.

4. **Professionalism**
   a. Demonstrate empathy, respect and cultural sensitivity toward others.
   b. Demonstrate the ability to lead a therapeutic team.
   c. Understand how your mannerisms, appearance and behaviors affect therapeutic interactions.
   d. Demonstrate an understanding of the role of confidentiality and ethical behavior in the practice of psychiatry.
   e. Understand the common causes of malpractice and disciplinary proceedings in the field of psychiatry.
   f. Understand the different settings where psychiatrists and other mental health workers might practice (forensic, hospitals, private practice, community mental health, etc.)

5. **Practice-Based Learning and Improvement**
   a. Demonstrate an understanding of medical informatics, evidence based learning and research techniques.
   b. Demonstrate the ability to identify personal knowledge deficits.
c. Demonstrate the ability to locate educational resources to strengthen medical knowledge.
d. Demonstrate a commitment to continuous quality improvement of medical knowledge and treatment.
e. Demonstrate the ability to teach audiences of varying levels of clinical expertise.
f. Develop an understanding of current CPT, ICD and DSM codes relevant to psychiatry.
g. Demonstrate an understanding of psychiatric residency and board certification requirements.
h. Become familiar with the missions of several national psychiatric professional organizations.

6. **Systems-Based Practice**
   a. Understand how your anticipated specialty of medicine interrelates with other health care practitioners, organizations and the community to promote psychiatric wellbeing.
   b. Develop an understanding of financial considerations for allocating psychiatric resources.
   c. Understand barriers for patient access to psychiatric services (social, logistical, financial, etc.).
   d. Understand how electronic medical records can impact psychiatric services.

7. **Osteopathic Philosophy and Osteopathic Manipulative Medicine**
   a. Recognize how homeostatic imbalance can impact psychiatric symptoms.
   b. Understand the impact of underlying and coexisting organic illnesses on psychiatric symptoms.
   c. Understand how somatic and structural changes can influence psychiatric symptoms.

C. **Study Plan**

In general, the best approach to studying psychiatry medicine is to use multiple sources. For Psychiatry, the foundational required reading and study guide will be Kaplan and Sadock. In addition, First Aid for Psychiatry Clerkship is an excellent overall summary of fundamental concepts. First Aid should be used more as an overall outline, with more in-depth study with Kaplan.

Additionally, there are neuropsychiatric interactive cases: OnlineMedEd: Students will review and complete 14 neuropsychiatric cases. These can be accessed at [https://onlinemeded.org/spa/cases](https://onlinemeded.org/spa/cases) using your WVSOM credentials

D. **COMAT Exam**

Take the time to review the NBOME web site on the COMAT exam. In addition [https://www.nbome.org/exams-assessments/comat/exam-series/comat-psychiatry/](https://www.nbome.org/exams-assessments/comat/exam-series/comat-psychiatry/)
Note that up to 78% of the exam focuses on the following concepts:

- Adjustment Disorders
- Anxiety Disorders/Trauma-Related Disorders/Obsessive Compulsive Disorders
- Mood Disorders
- Neurocognitive Disorders
- Neurodevelopmental Disorders

The student is advised to review the specific learner-centered objectives for Psychiatry, review and self-assess knowledge on the topics listed under the subheadings in this section, and address any knowledge gaps through additional readings as the student progresses through the online module. The subheadings are:

- Common Psychiatric Conditions
- Health Promotion/Disease Prevention, Health Care Delivery
- History and Physical Examination
- Management
- Scientific Understanding of Health and Disease Mechanisms.

**Pretest/Posttest**

Please refer to section 1.7 Proctored End of Rotation Exams.

**E. Required Textbooks**

*First Aid for the Psychiatry clerkship, 4th edition:*
This is a high yield guide to the psychiatry rotation, and gives you the core information you need to understand the most important concepts in the rotation.

*Kaplan and Sadock, Synopsis of Psychiatry 11th edition:*
This is an excellent reference book and provides narrative and descriptive information for most topics you will experience during your clinical rotation.

*DSM 5:*
The full edition of DSM 5 is an excellent reference book and provides detailed, descriptive information. If you are not planning to make a career of psychiatry, it may be more information than you need for your rotation. Your preceptor will certainly have a copy of the full DSM 5, which you should periodically review. We recommend that you at least purchase the pocket size version; the material is condensed, with shorter narrative explanations.
Case Files Psychiatry 5th edition: This book provides a wide variety of cases and sample question. It is a useful tool to help you think about patient presentations and stimulate discussion with your preceptor.

F. Other Resources

OnlineMedEd: Students will review and complete 14 neuropsychiatric cases. These can be accessed at https://onlinemeded.org/spa/cases

Stahl's Essential Psychopharmacology: The full textbook tells you how diseases act in the brain and how drugs act on the diseases. It reviews the psychotropic medications, including their assumed mechanisms of action and side effect profiles.

G. Didactic and Reading Assignments:

Review these to topics in Synopsis of Psychiatry, Case Files: Psychiatry, or First Aid for Psychiatry. It is important not only to read in preparation for COMAT, but also about patient conditions that you encounter. Be proactive about asking for additional readings from your preceptors.

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H. Doc.com Assignment

The student will review the following doccom Cases and complete the Discussion Questions:

- Communicating in Specific Situations #26: Anxiety and Panic Disorder
- Communicating in Specific Situations #29: Alcohol: Interviewing and Advising

To access the Doc.Com Cases visit: [http://webcampus.drexelmed.edu/doccom/user/](http://webcampus.drexelmed.edu/doccom/user/) you will log in using your Email address and Password.

I. Procedures and Clinical Skills

As with other areas of medicine, patients will come to the office with a list of signs and symptoms rather than a medical diagnosis. Students need to understand and appreciate that signs and symptoms overlap among a variety of diagnoses. Below are listed several presenting complaints with examples of overlap. We have started the list to help you appreciate the overlap.

Presenting complaints:

1) Depression - Depression can be found with major depressive disorder, dysthymia, bipolar disorder, anxiety, posttraumatic stress disorder, psychotic disorders, substance use disorders and a variety of personality disorders. Consider other diagnoses where you have seen depressed mood as a presenting symptom. Importantly, do not jump to a major depressive disorder diagnosis when the patient starts the interview by stating they are depressed. Stay open to other possible diagnoses.
2) Anxiety - Anxiety can be found in social phobia, panic disorder, obsessive-compulsive disorder, somatic disorder, depressive disorders, delirium, substance use disorders, personality disorders as well as other illnesses. Consider the variety of diagnoses where you have seen anxiety as a presenting complaint.

3) Fatigue - Fatigue can be found among patients with depression and anxiety. You should also think about sleep disorders and substance use disorders as well as others. Consider laboratory data to explore medical causes of fatigue to include thyroid disorder and anemia.

4) Gastrointestinal distress - Gastrointestinal distress is often seen with anxiety disorders and as a side effect to medication. Consider how chronic alcohol use affects the gastrointestinal system.

J. Grading/Calculations

For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.

If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

- Completion of the Preceptor/Site/Course Evaluation should be done at the end of the rotation.

- Note that you will have a standard score of 80 or greater on the COMAT end of rotation exam to pass the Psychiatry rotation/course. Should you score less than a standard score of 80, you will have failed the examination and will be evaluated as per grading policy E-17 to assess for eligibility to retest.

- If the retest is passed with a standard score of at least 80, a 70 will be recorded as the final rotation course grade.

- If the retest COMAT score is below standard score of 80, this will be recorded as a rotation course failure and your file will be remanded to the Student Promotions Committee for review. The committee will make
recommendations to the Associate Dean for Predoctoral Clinical Education to repeat the course or other sanctions up to and including dismissal. Please see Institutional Policy: E-17.

Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student needs to inquire if the preceptor/supervising physician has received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office.

The student is responsible for ensuring that the Grade Form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other.

A. Introduction

A surgery rotation is your introduction to the surgical disciplines. The student will learn how to evaluate patients with presenting complaints that may require surgical intervention.

B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   a. Understand basic surgical principles and terminology.
   b. Understand the basic principles of tissue healing.
   c. Understand the role of pre-operative clearance, intra-operative care and post-operative patient management.
   d. Understand the presentations, pathophysiology, etiology, differential diagnosis and surgical management of the following complaints or diagnosis: acute abdominal pain, appendicitis, cholecystitis, hernias, colon cancer, breast cancer, diverticulitis, thyroid nodules, thyroid cancer, pancreatitis, small bowel obstruction, dyspepsia/peptic ulcer disease, inflammatory bowel disease, upper and lower gastrointestinal bleeding, burn management, and trauma management.
   e. Understand the role of appropriate surgical consultation.
f. Understand and recognize the principles of evidence-based utilization of resources as applied to general surgery (system based).

2. **Patient Care**
   a. Be able to explain a preoperative assessment and management plan.
   b. Create a post-operative management plan.
   c. Explain common post-operative complications.

3. **Interpersonal and Communication Skills**
   a. Preceptors are expected to evaluate student competence in communication including the ability to write language a patient could understand, the ability to explain interviewing techniques and the ability to explain how certain cultural disparities may influence the provision of appropriate care.

4. **Professionalism**
   a. Preceptors are expected to evaluate professionalism, including demonstrated ethical, personal and professional qualities deemed necessary for the continued successful study and practice of Osteopathic Medicine. Professionalism also includes the timely completion of all assignments.
   b. Understand the appropriate use of operating room attire realizing this may be facility specific.
   c. Understand empathy and compassion for patients and their families.
   d. Maintain honesty and integrity in all your communications.
   e. Understand, appreciate and abide by all HIPAA rules.
   f. Be aware of patient’s rights and responsibilities and the need for shared decision making.

5. **Practice-Based Learning and Improvement**
   a. Apply fundamental epidemiologic concepts to practice improvement.
   b. Include topics related to Medical informatics/EBM/Research.
   c. Demonstrate ability to identify personal knowledge deficits.
   d. Demonstrate ability to locate educational resources and strengthen personal medical knowledge.
   e. Display commitment to continuous quality improvement.
   f. Demonstrate ability to teach both peers and lay audiences.

6. **System Based Practice**
   a. Recognize how patient care and professional practice affect other health care professionals, health care organizations, and the larger society.
   b. Recognize how delivery systems differ with controlling health care costs and allocating resources.
   c. Use patient-centered, equitable systems of care that recognize the need to reduce medical errors and improve patient safety.
   d. Be aware of medication and treatment costs (direct patient costs) and the impact of these factors on the physician’s treatment plan.
e. Demonstrate understanding of HIPAA regulations and its impact on the communication of patient care information for surgical patients.

f. Understand the importance of “Time Out” procedures to reduce medical errors and improve patient and staff safety.

g. Recognize the need to improve your knowledge base, develop and deliver case presentations and demonstrate these skills by utilizing the local Electronic Medical Record (EMR), on-line resources, and local patient instruction protocols to provide patient instructions.

7. **Osteopathic Philosophy and Osteopathic Manipulative Medicine**
   a. Understand osteopathic diagnostic skills that must be adapted to the physical limitations common to pre- and post-operative care environments.
   b. Recognize somatic dysfunction in the context of common surgical presentations including respiratory dysfunction, visceral dysfunction, and common viscerosomatic pain reflexes.
   c. Recognize osteopathic treatment modalities appropriate to the pre- and post-surgical environment for somatic dysfunction, including the need for early ambulation and fluid mobilization techniques.
   d. Develop an appreciation for the need to treat the entire patient including emotional, spiritual, physical, and family needs.

C. **Study Plan**

   Wise MD videos: 22 cases and 11 Skills Modules

   *Surgery: A Competency-Based Companion*, Mann, for additional readings

D. **COMAT General Surgery Blueprint**

   Review the NBOME web site on the COMAT Blueprint for Surgery.
   This will provide a general roadmap for your studies.

   *(Note: the majority of the surgery COMAT exam is focused on endocrine/breast, fluids, gastrointestinal, hepatobiliary, hernias, and trauma.)*

   **Pretest/Posttest**

   Please refer to section 1.7 Proctored End of Rotation Exams.
E. Required Textbooks


*Surgery: A Competency-Based Companion*, Mann

*Essentials of General Surgery*, Lawrence

F. Other Resources

*Surgery on Call, 4th edition*, Lange

*Zollinger’s Atlas of Surgical Operations*

*Sabiston Textbook of Surgery, 20th edition*

*Core Topics in General and Emergency Surgery, 5th edition*

G. Didactic and Reading Assignments

The following is a list of topics that should be reviewed during your rotation in surgery.

Specific recommended sources include Lawrence, Mann, and the Lange Surgery on Call.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Sub-Topic</th>
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<tr>
<td>Abdominal Defects and Hernias</td>
<td>Hernia</td>
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<td>Preoperative Care and Risk Assessment</td>
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<td>Fluids and Electrolytes</td>
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<td>Surgical Nutrition</td>
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<td>Coagulation, Blood</td>
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<td>Diaphragm</td>
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<td>Stomach and Duodenum</td>
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<td>Large Intestine and Rectum</td>
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<td>General Surgery in:</td>
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<td>Surgical Oncology</td>
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<td>Trauma</td>
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<td>Wounds and Infections</td>
<td>Skin and subcutaneous tissues</td>
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<td>Anesthesia</td>
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<td>Postoperative Care</td>
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H. Additional Recommendations

DocCom cases

- Communicating in Specific Situations: #32 “Advance Directives”

**Complete the Discussion Questions.** To access the Doc.Com Cases visit: [http://webcampus.drexelmed.edu/doccom/user/](http://webcampus.drexelmed.edu/doccom/user/) you will log in using your Email address and Password.

I. Procedures/Clinical Skills

None

J. Patient Procedure Logs

None

K. Grading/Calculations

For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.
If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

- Completion of the Preceptor/Site/Course Evaluation should be done at the end of each rotation.

- Note that you will have a standard score of 80 or greater on the COMAT end of rotation exam to pass the General Surgery rotation/course. Should you score less than a standard score of 80, you will have failed the examination and will be evaluated as per grading policy E-17 to assess for eligibility to retest.

- If the retest is passed with a standard score of at least 80, a 70 will be recorded as the final rotation course grade.

- If the retest COMAT score is below standard score of 80, this will be recorded as a rotation course failure and your file will be remanded to the Student Promotions Committee for review. The committee will make recommendations to the Associate Dean for Predoctoral Clinical Education to repeat the course or other sanctions up to and including dismissal. Please see Institutional Policy: E-17.

Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student needs to inquire if the preceptor/supervising physician has received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office. The student is responsible for ensuring that the Grade Form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
2.7 Dean’s Selective

Course Numbers: 831, 832, 833 OLM

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other.

A. Introduction

This is a two or four week rotation. This rotation may provide the student a greater opportunity to identify an area of interest or topics to broaden their experience base during their first clinical year. These rotations may be scheduled as a 4 week rotation or 2 two week rotations which may or may not occur in a consecutive 4 week time period.

The supervising physician (preceptor) is required to review with the student his/her progress toward fulfilling the educational objectives.

B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   At the conclusion of this rotation, the student will demonstrate medical knowledge, understanding of disease process, and the student’s ability to apply cognitive skills in differential diagnosis as it relates to the assigned modules.

2. Patient Care
   Explain how to educate patients and/or caregivers and evaluate their comprehension of the diagnosis and treatment plan, including conveying clinical condition and obtaining informed consent prior to procedures.

3. Interpersonal and Communication Skills
a. Summarize how to effectively communicate with pediatric patients, their caregivers, and the healthcare team.
b. Explain how parental and patient concerns and perspectives including cultural and religious influences impact care
c. Describe how to write the following:
   • different types of medical notes
   • SOAP notes
   • newborn nursery admission notes
   • admission history & physicals
   • discharge summaries
   • procedure notes
d. Describe the capabilities of electronic health records.
e. Explain how to share diagnostic plan of care, and prognostic information with patients and families.

4. Professionalism
   a. Summarize understanding and need for supervision, chaperones and/or assistance.
   b. Detail an understanding of privacy and independence of adolescents and of the private individual interview of an adolescent during the interview process.
   c. Explain how sensitivity, empathy and responsiveness to diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation impacts care.

5. Practice-Based Learning and Improvement
   The student will demonstrate ability to integrate evidence-based medicine into the explanation of patient care. This competency may also include an understanding of Research and Quality Improvement.

6. Systems-based Practice
   Student will demonstrate the ability to understand his/her role as a member of the health care team, the student’s understanding of local community medical resources, and the student’s understanding of providing effective and cost effective medicine.

7. Osteopathic Philosophy and Osteopathic Manipulative Medicine
   All preceptors are expected to encourage and verify application of osteopathic principles

C. Study Guide

Using Online MedED, the student will complete 50 interactive cases in Internal Medicine or Neuropsychiatry.
https://onlinemeded.org/spa/cases

D. COMAT Blueprint

There is no COMAT exam associated with the Dean’s Selective
E. Required textbooks
None

F. Other resources
Evidence Medicine Sites:
www.ahrq.gov/clinic/cps3dix.htm
www.clinicalkey.com
www.cochrane.org/

G. Didactic and reading assignments
As above

H. Additional Recommendations
None

I. Procedures and Clinical Skills
The student will discuss the objectives of the rotation with the preceptor.
- Select, utilize and interpret the appropriate laboratory tests, imaging exams and other procedures, and consulting services to aid in narrowing the differential diagnosis.
- Develop a plan based on the differential diagnosis, including osteopathic manipulative therapy.
- Given a number of clinical questions, the student will be able to use various resources to answer the questions based on best medical evidence.
- There is no direct patient care

J. Patient Procedure Logs
None.

K. Grading/Calculations
For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The
online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.

If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

L. Completion of the Preceptor/Site/Course Evaluation should be done at the end of each rotation.

Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student needs to inquire if the preceptor/supervising physician has received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office.

The student is responsible for ensuring that the Grade form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
2.8 Emergency Medicine

Course Number: 802 OLM

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other.

A. Introduction

At the completion of the on-line learning program, the student will be expected to have gained sufficient medical knowledge and covered all of the core competencies already set forth in the syllabus. This will be achieved through the use of the Clerkship Directors in Emergency Medicine (CDEM) M3 and M4 Curriculum, accessed through the Society of Academic Emergency Medicine (SAEM) website. Competency in the subject matter will be assessed through the on-line testing modules on the SAEM website and through successful completion of the COMAT Exam for EM.

B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   a. Acquire knowledge needed for the diagnosis and initial management of acute and emergent illnesses
   b. Select, justify, and interpret clinical tests and imaging with regard to both patient age and pathological processes in an acute care setting.
   c. Create a list based on the presentation and on physical findings of differential diagnoses for common acute disorders and prioritize based on findings and probability.

2. Patient Care
   a. Explain interview and physical examination skills required to conduct interviews with patients and family presenting for urgent and emergent care
and understand appropriate physical examinations and osteopathic structural examinations.

b. Explain how to educate patients and/or caregivers and evaluate their comprehension of the diagnosis and treatment plan, including conveying clinical condition and obtaining informed consent prior to procedures.

c. Describe how to accurately convey patient issues and needs when transitioning the patient to other members of the healthcare team, families, and parents.

3. **Interpersonal and Communication Skills**

   a. Summarize how to effectively communicate with emergency patients, their caregivers, and the healthcare team.

   b. Explain how parental and patient concerns and perspectives including cultural and religious influences impact care.

   c. Describe how to write the following:

      - different types of medical notes
      - SOAP notes
      - newborn nursery admission notes
      - admission history & physicals
      - discharge summaries
      - procedure notes

   d. Describe the capabilities of electronic health records.

   e. Explain how to share diagnostic plan of care, and prognostic information with patients and families.

4. **Professionalism**

   a. Summarize understanding and need for supervision, chaperones and/or assistance.

   b. Detail an understanding of privacy and independence of adolescents and of the private individual interview of an adolescent during the interview process.

   c. Explain how sensitivity, empathy and responsiveness to diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation impacts care.

   d. Recognize that all patients in emergency situations shall receive care regardless of medical insurance coverage, ethnicity, race, or social economic status.

5. **Practice-Based Learning and Improvement**

   a. Apply fundamental epidemiologic concepts.

   b. Detail medical informatics, evidence-based medicine, and research.

   c. Identify personal knowledge deficits, strengths, and limits through frequent self-reflection.

   d. Explore the ability to locate educational resources and strengthen personal medical knowledge.

   e. Explain quality improvement.

6. **Systems-Based Practice**

   a. Recognize quality patient care systems and how they may affect the larger health care systems.
b. Discuss the cost and risk-benefit analysis in patient and/or populations-based care in different delivery systems and settings.

c. Describe reporting requirements for infectious diseases or psychosocial issues, such as elder or child abuse or suicide.

7. **Osteopathic Philosophy and Osteopathic Manipulative Medicine**

The Four Tenets of Osteopathic Medicine: 1) The body is a unit; 2) Structure and function are interdependent; 3) The body has self-healing and self-regulatory capabilities; 4) Rational osteopathic care relies on the integration of these tenets in patients care.

**C. Study Guide**

The on-line EM learner shall be required to complete the on-line learning modules which address all of the selected specific learner-centered objective for emergency medicine listed in the traditional clinical rotation syllabus. These modules are not all-inclusive of all EM material which may appear on the EM COMAT, particularly in the subject area of Pediatric Emergencies. It is strongly recommended that if the student has not yet completed their core pediatrics rotation, that they review the Peds EM Curriculum ([https://saem.org/cdem/education/online-education/peds-em-curriculum](https://saem.org/cdem/education/online-education/peds-em-curriculum)) found on the SAEM website also.

The required modules found in the M3 and M4 Curriculum are as follows:

**M3 Required Modules:** [https://saem.org/cdem/education/online-education/m3-curriculum](https://saem.org/cdem/education/online-education/m3-curriculum)

- Approach to the Undifferentiated Patient:
  - Approach to the Undifferentiated Patient
  - Undifferentiated and Differentiated Patients

- Stabilization of the Acutely Ill Patient:
  - Stabilization of the Acutely Ill Patient
  - Approach to Shock

- Focused Chief Complaint History, Physical Examination and Differential Diagnosis:
  - Chest Pain
  - Abdominal Pain
  - Shortness of breath
  - Altered mental status
  - Headache
- Ischemic Stroke
- GI Bleeding
- Pelvic Pain and Vaginal Bleeding
- Toxic Ingestion
- Performing a Complaint-Directed History & Physical Exam
- Data-Gathering Skills
- Developing a Case-Specific Differential Diagnosis
- Developing Your Plan of Action

Basic and Advanced Life Support Techniques:
- Airway
- Breathing
- Circulation: Electricity
- Circulation: Tachydysrhythmias

Diagnostic Testing:
- Common Laboratory studies
- Brain Imaging
- Chest Radiograph
- Diagnostic Testing in the Emergency Department

Electrocardiogram (ECG)/Rhythm Recognition:
- Conduction Abnormalities
- STEMI
- Electrolyte Abnormalities
- Cardiac Arrest

Emergency Department Procedures:
- Basic Wound Management
- Abscess incision and drainage
- Lumbar puncture
- Vascular Access
- Procedural Skills

Acute Pain Control:
- Acute pain control

Traumatic and Orthopedic Injuries:
- Approach to the trauma patient
- Orthopedic injuries
- Spinal immobilization
- Cervical Spine Imaging in Trauma
- Neck Trauma
- Blunt and penetrating chest trauma
- Blunt and penetrating abdominal trauma

Bedside Ultrasonography:
- Introduction to Bedside Ultrasound
- Pericardial Effusion
- AAA exam
- FAST exam
- Venous access

Emergency Medical Services (EMS):
- Emergency Medical Services
- Aeromedical Transport

M4 Required Modules: [https://saem.org/cdem/education/online-education/m4-curriculum](https://saem.org/cdem/education/online-education/m4-curriculum)

Approach To:
- Poisonings
- Sepsis

Endocrine and Electrolytes:
- Thyroid Storm

Environmental:
- Hyperthermia
- Hypothermia
- Envenomation
- Snake Bites + Scorpions
- Burns & Smoke Inhalation
- Drowning

Genitourinary:
- Ectopic pregnancy
D. COMAT Emergency Medicine Blueprint

Review the NBOME web site on the COMAT Blueprint for Emergency Medicine. This will provide a general roadmap for your studies. However, still take the time to read about your patient encounters and any additional material that your preceptor suggests.  

Pretest/Posttest

Please refer to section 1.7 Proctored End of Rotation Exams.

E. Required Textbooks

(Available on Access Medicine on WVSOM Online Library)

F. Other Resources

Marx: Rosen’s Emergency Medicine, Mosby, 9th Ed.
G. Didactic and Reading assignments:

Additional Reading Assignments:

It is highly recommended that the student perform additional study on the topic of HEENT Emergencies and Dermatologic Emergencies, as there were no on-line modules available which reviewed this area. The best source for this information would be Tintinalli’s Emergency Medicine: A Comprehensive Study Guide, 9th Edition (available on Access Medicine on WVSOM Online Library).

Any additional in-depth information desired on any emergency topics can also be obtained through the Tintinalli’s Emergency Medicen: A Comprehensive Study Guide and the Rosen's Emergency Medicine, 0th Edition.

Evaluation:

The student shall complete and pass each of the 28 Practice Tests provided, with a minimum average score of 70%. You will need to log in to the SAEM website. The Practice Tests are located in the My Assignments tab on the SAEM website. The Practice Tests are intended to assist the student in identifying areas of knowledge deficit. Any difficulty in achieving a score of 70% or greater on a Practice Test should trigger the student to review the appropriate learning modules for that subject matter to be better prepared for the EM COMAT Exam.

In the case of a student who has completed 50% of their EM rotation in a clinical rotation site, and now has to complete their remaining requirements utilizing on-line learning, the following is recommended: The student in this situation should go initially to the Practice Tests before reviewing any of the assigned EM Modules. The Practice Tests should be completed and the scores reviewed by the student. Any score below 70% on the Practice Tests should indicate areas requiring intense review. The appropriate subject matter can then be studied in the EM Modules, in preparation for the EM COMAT.

H. Grading/Calculations

For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.
If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

- Completion of the Preceptor/Site/Course Evaluation should be done at the end of the rotation.

- Note that you will have a standard score of 80 or greater on the COMAT end of rotation exam to pass the Emergency Medicine rotation/course. Should you score less than a standard score of 80, you will have failed the examination and will be evaluated as per grading policy E-17 to assess for eligibility to retest.

- If the retest is passed with a standard score of at least 80, a 70 will be recorded as the final rotation course grade.

- If the retest COMAT score is below standard score of 80, this will be recorded as a rotation course failure and your file will be remanded to the Student Promotions Committee for review. The committee will make recommendations to the Associate Dean for Predoctoral Clinical Education to repeat the course or other sanctions up to and including dismissal. Please see Institutional Policy: E-17.

Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student needs to inquire if the preceptor/supervising physician has received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office. The student is responsible for ensuring that the Grade form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
2.9 Obstetrics and Gynecology/Women’s Health

Course Number: 803 OLM

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other

A. Introduction

The Women’s Health/OB-GYN course is a four-week rotation focusing on the healthcare provided to female patients. This specialty encompasses preventive health, reproductive health, maternal care and gynecologic surgery for women of all ages.

Regardless of the final specialty choice that the student makes they will be providing care of women. The rotation is challenging with the goal to prepare each medical student to develop competence in the areas of reproductive and preventive care for women.

B. Course (Rotation) Objectives and Core Competencies

1. **Medical Knowledge**
   a. Demonstrate knowledge of preconception care including the impact of genetic, medical conditions and environmental factors on maternal health and fetal development.
   b. Explain the normal physiologic changes of pregnancy including interpretation of common diagnostic tests.
   c. Describe common problems in Obstetrics.
   d. Demonstrate knowledge of postpartum care.
   e. Describe menstrual cycle physiology, discuss puberty and menopause and explain normal and abnormal bleeding.
f. Demonstrate knowledge of common benign gynecological conditions.
g. Describe common breast conditions and outline the evaluation of breast complaints.
h. Describe gynecological malignancies including risk factors, signs and symptoms and initial evaluation.
i. Develop a thorough understanding of contraception, including sterilization and abortion.
j. Demonstrate knowledge of intrapartum care of the mother and newborn.
k. Formulate a differential diagnosis of the acute abdomen and chronic pelvic pain.
l. Demonstrate knowledge of perioperative care and familiarity with gynecological procedures.
m. Be able to provide a preliminary assessment of patients with sexual concerns.

2. **Patient Care**
   a. Explain interview and physical examination skills required to conduct interviews with the female patient and their families and understand age appropriate physical examinations and osteopathic structural examinations.
   b. Explain how to educate patients and/or caregivers and evaluate their comprehension of the diagnosis and treatment plan, including conveying clinical condition and obtaining informed consent prior to procedures.

3. **Interpersonal and Communication Skills**
   a. Explain how patient concerns and perspectives including cultural and religious influences impact care
   b. Describe how to write the following:
      - different types of medical notes
      - SOAP notes
      - newborn nursery admission notes
      - admission history & physicals
      - discharge summaries
      - procedure notes
   c. Describe the capabilities of electronic health records.

4. **Professionalism**
   a. Summarize understanding and need for supervision, chaperones and/or assistance.
   b. Detail an understanding of privacy and independence of adolescents and of the private individual interview of an adolescent during the interview and examination process.
   c. Explain how sensitivity, empathy and responsiveness to diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation impacts care.
   d. Recognize that all patients in emergency situations shall receive care regardless of medical insurance coverage, ethnicity, race, or social economic status.
5. **Practice-Based Learning and Improvement**
a. Demonstrate the ability to identify personal knowledge deficits
b. Demonstrate the ability to correct knowledge deficits identified by seeking out appropriate references, located relevant clinical practice guidelines and formulate clinical questions to research to improve personal knowledge.
c. Demonstrate the ability to use information technology as a learning tool.

6. **Systems-Based Practice**
a. Explain how the cost of medication, tests and other treatment modalities affect patient compliance to care plans.
b. Explain the role of the physician in controlling health care costs and allocating resources.
c. Discuss the relationship of women’s health as it relates to:
   - Social and political discrimination, poverty, and family care-giver role
   - Population characteristics such as sexual orientation, disabilities, ethnicity, religion and cultural background.

7. **Osteopathic Philosophy and Osteopathic Manipulative Medicine**
a. Understand the basic tenets and fundamental techniques utilized to evaluate, diagnose and treat the female patient osteopathically.
b. Demonstrate the ability to properly document an osteopathic structural examination on an Obstetrical patient.

C. **Study Plan**

In general, the best approach to studying OB/GYN is utilizing multiple sources. This area is complicated by the fact that it is a relatively short time to learn an area that includes medical and surgical components. The APGO/UWISE resource provides an excellent introduction to common topics. The extensive test questions are an excellent foundation from which to base your review and readings. Beckman is a core OB/GYN text and is highly recommended. For a shorter “handbook” style reference, the Obstetrics, Gynecology, and Infertility Handbook would be a useful resource during downtime in clinic or as a quick review before a surgery.

D. **COMAT Blueprint**

Review the NBOME web site on the COMAT Blueprint for OB/GYN. This will provide a general roadmap for your studies. However, still take the time to read about your patient encounters and any additional material that your preceptor suggests.

https://www.nbome.org/exams-assessments/comat/exam-series/comat-obgyn/

As you can see, similar to the specialty itself, the COMAT content is broad and fairly evenly distributed over the following topics:
• Abnormal Obstetrics
• General Gynecology
• Gynecologic Oncology
• Normal Obstetrics
• Reproductive Endocrinology

The student is advised to review and refer back frequently to the specific learner-centered objectives for OB/GYN, review and self-assess knowledge on the topics listed under the subheadings in this section, and address any knowledge gaps through additional readings as the student progresses through the online module.

Pretest/Posttest

Please refer to section 1.7 Proctored End of Rotation Exams.

E. Required textbooks

Obstetrics and Gynecology: a Competency-Based Companion. 2010
Saunders/Elsevier
Obstetrics, Gynecology & Infertility: Handbook for Clinicians

F. Other resources

WVSOM has an active subscription to the Association of Professors of Gynecology and Obstetrics (APGO) uWISE self-assessment tool which allows you to have a personal subscription while you are in the ob/gyn clerkship rotation. The APGO Undergraduate Web-Based Interactive Self-Evaluation (uWISE) is a 600-question interactive self-exam designed to help medical students acquire the necessary basic knowledge in obstetrics and gynecology. Students find this resource to be an extremely valuable study tool since it allows you to gain feedback on each of the questions as you move through the various exams.

Students will receive an email link for login access at the start of their OB/GYN rotation. If you have not received this, please contact Leah Stone lstone@osteo.wvsom.edu.
After you register, you can also access the APGO YouTube channel that has brief videos as listed below. (You must be a registered user to view the videos.)

https://www.youtube.com/playlist?list=PLy35JKgyOASnHHXi4mjXX9kwVA_YMDpq

G. Didactic and reading assignments: APGO uwise questions and APGO Videos

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<th>Beckmann</th>
<th>Videos and uWise question topics</th>
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<td>18, 20, 418, 420; 409, 417-418, 411-413, 429,</td>
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<td></td>
<td>431, 228, 13, 14, 135, 407</td>
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<tr>
<td><strong>You will note that Pap smears are emphasized on the COMAT testing. If you read any Pap guidelines, you will see that the recommendations somewhat vary as to timing and test(s) of choice. Instead of memorizing specific timing intervals, focus on what the Pap and HPV tests are screening for and have a general idea as to what the different classifications of abnormal Paps signify. UptoDate provides an excellent general overview.</strong></td>
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<tr>
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<td>Premature Rupture of Membranes</td>
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<td>Intrapartum Fetal Surveillance</td>
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<td>Postpartum Hemorrhage</td>
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<td>Fetal Growth Abnormalities</td>
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<td>Contraception and Sterilization</td>
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Vulvar and Vaginal Disease 399-407 #35
Sexually Transmitted Infections and UTIs 265-275 #36
Pelvic Relaxation and Urinary Incontinence 277-281, 281-284 #37
Endometriosis 287-294 #38
Chronic Pelvic Pain 297-299 #39
Disorders of the Breasts 132, 305-307, 307-310 #40
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Vulvar Neoplasia 403-405 #51
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Uterine Leiomyomas 423-426, 186, 296 #53
Endometrial Hyperplasia and Carcinoma 427-430, 430-433 #54
Ovarian Neoplasms 360, 437-445 #55

H. Additional Recommendations:

Using the Procedures Consult website, review the following common procedures used in the setting of women’s health. You can find each procedure by typing the name into the search engine at the website.

- Vacuum Assisted Delivery
- IUD insertion and removal
- Nexplanon insertion
- 1st Trimester Ultrasound
- Endometrial Biopsy
- C-Section

DocCom Cases:
The student will review the following doccom Case and complete the Discussion Questions:

Communicating in Specific Situations: #28-Domestic Violence
To access the Doc.Com Cases visit: http://webcampus.drexelmed.edu/doccom/user/ you will log in using your Email address and Password.
I. Grading/Calculations

For the interrupted rotation block 10, the grade will consist of 65% preceptor and 35% COMAT if applicable; otherwise 100% preceptor if there is no COMAT. The online assignments must be completed or the grade will be recorded as an incomplete.

Following block 10, if the course is done online, the COMAT will still represent 35% and the average grade given by preceptors for that discipline will be used for the other 65% of the grade if the online assignments are completed.

If there is no COMAT, the grade will be 100% the average grade given by the preceptors in that course. The online assignments must be completed or the grade will be recorded as an incomplete.

- Completion of the Preceptor/Site/Course Evaluation should be done at the end of the rotation.

- Note that you will have a standard score of 80 or greater on the COMAT end of rotation exam to pass the Obstetrics and Gynecology/Women’s Health rotation/course. Should you score less than a standard score of 80, you will have failed the examination and will be evaluated as per grading policy E-17 to assess for eligibility to retest.

- If the retest is passed with a standard score of at least 80, a 70 will be recorded as the final rotation course grade.

- If the retest COMAT score is below standard score of 80, this will be recorded as a rotation course failure and your file will be remanded to the Student Promotions Committee for review. The committee will make recommendations to the Associate Dean for Predoctoral Clinical Education to repeat the course or other sanctions up to and including dismissal. Please see Institutional Policy: E-17.

Please note the following:

The preceptor (if an email address is on file) will receive an email with a link to the Clinical Education Grade Form to complete before the end of the rotation. The student
needs to inquire if the preceptor/supervising physician has received the email with the link to the form. If the Preceptor/Supervising physician did not receive the email, then the student must provide a paper grade form to be completed and Faxed or mailed to the SWC regional office.

The student is responsible for ensuring that the Grade form is submitted in a timely fashion and should follow-up with the preceptor, if necessary.
COVID-19 Elective OLM

Two-weeks - Spring 2020

Primary Faculty Contact: Crystal Boudreaux, Ph.D.
cboudreaux@osteo.wvsom.edu
Phone: 304.793.6822

Authorizing Physician: Brian Kendall, M.D.
bkendall@osteo.wvsom.edu

Supportive Faculty:
Tony Liu, M.D., Ph.D.
tliu@osteo.wvsom.edu
Phone: 304.647.6427

Marc Benson, Ph.D.
mbenson@osteo.wvsom.edu
Phone: 304.647.6275

I. Description
The purpose of this elective is to interpret literature during a medical emergency like the current SARS-CoV2 (COVID-19) pandemic. As physicians, review of medical and experimental literature is critical to maximize knowledge by attaining, maintaining and improving medical competency and stay current with medical trends. In a time of crisis this can be incredibly difficult with the rate in which case and laboratory studies emerge with and without peer review.

II. Outcomes
1. Understand how to do a critical review of literature
2. Demonstrate the ability to do a critical review of literature on the current COVID-19 pandemic
3. Identify falsely reported information or limitations to statistics being reported for COVID-19
4. Explain the basic science mechanisms to projected pathogenesis and treatments for COVID-19
5. Describe parameters that would affect epidemiological analysis of the current COVID-19 pandemic (ex. age, gender, ethnicity, geographic location, occupation, etc.)

III. Osteopathic Relevance
The COVID-19 Elective focuses on communication as an osteopathic physician. It is important to interpret literature and communicate effectively to patients. Understanding that a world medical emergency infectious diseases such as the COVID-19 pandemic incorporates the four osteopathic tenets:
1. The body is a unit; the person is a unit of body, mind, and spirit
2. The body is capable of self-regulation, self-healing, and health maintenance
3. Structure and function are reciprocally interrelated
4. Rational treatment is based upon an understanding of the basic principles of body unity, self-regulation, and the interrelationship of structure and function. Without complete knowledge of the viral pathogen, no effective antivirals, no vaccines, and unknown extraneous factors, we rely on these tenets for treatment and healing from this pandemic.

IV. Activities
1. Read the following brief communications on interpreting scientific literature:
   a. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3191655/
   b. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3687192/
2. In no more than 10 pages (single spaced, Arial font - 11 point, 1 inch margins), complete a critical literature review using the guide below to answer the following questions within each section.
   a. **Section I**: 1 describe the virus and how it compares to the other coronavirus pandemics (MERS-CoV and SARS-CoV1), 2 explain the viral mechanism(s) being described and what factors are known to influence the mechanism(s) of COVID-19, 3 describe the antiviral treatments, vaccines and their mechanisms discussed in the literature of COVID-19
   b. **Section II**: 1 identify and summarize one controversial report based on basic science mechanisms described in section I, 2 explain the limitations on the statistics being reported to date of the COVID-19 pandemic
   c. **Section III**: 1 describe the reported risk factors and how they tie directly to the mechanism(s) explained in section I for COVID-19, 2 explain how patient management has evolved over time during the pandemic due to limitation in reporting described in section II, 3 identify influences (if any) on epidemiological parameters of COVID-19 examined in outcome 5
   d. **Section IV**: in a few sentences, comment on how this pandemic has shaped your thoughts on infectious disease and medicine as a training physician

V. Resources
1. Utilize the resources of the WVSOM online library (https://www.wvsom.edu/library/library-home)
3. Two Lancet articles as a starting point
   b. https://www.thelancet.com/action/showPdf?pii=S2213-2600%2820%2930116-8

**Core Competencies**
The core competencies can be found using this link: http://www.wvsom.edu/Academics/pre-clinica-competencies

**Professionalism**
Professionalism will be exhibited each day in class and each student will be expected to adhere to institutional policy ST-01 and their own statement below which was written by the student government
association:

“As medical students of the West Virginia School of Osteopathic Medicine, we acknowledge and value the importance of professional conduct. We recognize that the behavior and attitudes of individuals and groups reflects on all of us, our institution, and our profession. Professionalism encompasses but is not limited to the virtues of respect, integrity, honesty, confidentiality, and dependability. We will strive to uphold these values in our endeavors at all times. We will show honesty and integrity to all those we come into contact with, meaning that we will adhere to the moral and ethical principles we have been taught and show soundness of moral character. We will be expected to maintain confidentiality in all settings no matter how small the issue. Above all else we will show self-less service to our patients, colleagues, institution and community.”

For further details that relate to professional behavior, refer to the following institutional policies that can be accessed on the WVSOM Website at http://www.wvsom.edu/About/policies_procedures

Copyright
Materials used in this course may be copyrighted and should not be shared with individuals not currently enrolled in this course. Sharing copyrighted materials outside of WVSOM will result in having a note in the student’s Dean’s file regarding unprofessional conduct.

This syllabus is subject to change upon written notification.
Muscular Dystrophies Elective
Spring 2020

Preceptor:
Predrag Krajacic, MD
pkrajacic@osteo.wvsom.edu
(304) 647-6305

I. Description
The purpose of this elective is to broaden the student’s knowledge on muscular dystrophies with a special focus on Duchenne Muscular Dystrophy (DMD). The elective will incorporate self-guided review of muscular dystrophies in general, followed by guided primary literature search with a special focus on the current state of the search for the cure. Finally, we will wrap up the elective reviewing a JAOA article geared towards osteopathic physicians summarizing the challenges and actions they are uniquely equipped to take in caring for patients with DMD, or diagnosing them early. This will provide the students with the opportunity to get better informed on this devastating disease and be better equipped to help the patients and families struggling to manage it.

II. Outcomes

1. Explain and discuss the disease mechanism and clinical findings for Duchenne Muscular Dystrophy (DMD)
2. Perform a critical review of literature and discuss the current state of research for therapeutic approaches
3. Discuss the current and relevant information regarding DMD diagnosis and management relevant for an osteopathic primary care physician.

III. Osteopathic Relevance
Patients with DMD have dysfunctions in all 5 body physiologic functions and, therefore, would be best approached and optimally treated by relying on all 5 models of osteopathic care. Special focus will be put on an osteopathic primary care physician’s approach to a DMD patient and their family. Approaching DMD care using this osteopathic primary care treatment paradigm will provide the student with up-to-date, holistic, and life-enhancing care options for DMD patients.

IV. Activities

1. Self-guided review of course material related to muscular dystrophies with a special focus on Duchenne Muscular Dystrophy (DMD) in WVSOM Year 1 MSK course and Year 2 Rheum course using textbooks available through the Clinical Key.
2. Guided primary literature search with a special focus on the current state of the search for therapeutics
3. Review and discussion of the JAOA review article "Bridging the Gap: An Osteopathic Primary Care–Centered Approach to Duchenne Muscular Dystrophy"

V. Resources

1. Utilize the resources of the WVSOM online library (https://www.wvsom.edu/library/library-home)
3. JAOA article (https://jaoa.org/article.aspx?articleid=2630265)

VI. Grading

Grade for this elective rotation will be assigned by the preceptor.

Core Competencies

The core competencies can be found using this link: http://www.wvsom.edu/Academics/pre-clinica-competencies

Professionalism

Professionalism will be exhibited each day in class and each student will be expected to adhere to institutional policy ST-01 and their own statement below which was written by the student government association:

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This syllabus is subject to change upon written notification.
Medical Communication Skills Elective

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other.

A. Introduction
   This is a two-week rotation. This rotation may be scheduled as a 2 two week rotation to occur in a consecutive 2 week time period.

B. Course (Rotation) Objectives and Core Competencies

   1. Medical Knowledge
      At the conclusion of this rotation, the student will demonstrate medical knowledge, understanding of disease process, and the student’s ability to apply cognitive skills in differential diagnosis as it relates to the assigned modules related to Medical Communication Skills.

   2. Patient Care
      Explain how to educate patients and/or caregivers and evaluate their comprehension of the diagnosis and treatment plan, including conveying clinical condition and obtaining informed consent prior to procedures.

   3. Interpersonal and Communication Skills
      a. Summarize how to effectively communicate with patients, their family members, and the healthcare team.
      b. Explain how parental and patient concerns and perspectives including cultural and religious influences impact care.
      c. Explain how to share diagnostic plan of care, and prognostic information with patients and families.

   4. Professionalism
      a. Detail an understanding of privacy and independence of adults and adolescents.
b. Explain how sensitivity, empathy and responsiveness to diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation impacts care.

5. **Systems-based Practice**  
Student will demonstrate the ability to understand his/her role as a member of the health care team, the student’s understanding of local community medical resources, and the student’s understanding of providing effective and cost effective medicine.

6. **Osteopathic Relevance**  

C. **Study Guide**  
Using Online DocCom modules. Student will complete the assigned modules and complete both the multiple choice and essay questions associated with each module.

D. **COMAT Blueprint**  
N/A

E. **Required textbooks**  
None

F. **Other resources**  
Evidence Medicine Sites:  
  - [www.ahrq.gov/clinic/cps3dix.htm](http://www.ahrq.gov/clinic/cps3dix.htm)  
  - [www.clinicalkey.com](http://www.clinicalkey.com)  
  - [www.cochrane.org/](http://www.cochrane.org/)

G. **Didactic and reading assignments**  
As above

H. **Additional Recommendations**  
None

I. **Patient Procedure Logs**  
None.
J. Grading/Calculations

1. Successful completion of assigned online course modules constitutes passage for the Elective.
Opioid Use Disorder and Treatment Elective

In response to a widespread emergency affecting multiple hospitals and other clinical learning sites, this represents an alternate syllabus to the course.

This syllabus is only to be used when the student is notified of such by the Associate Dean of Predoctoral Clinical Education or his/her designees in response to a severe disruption or other dire circumstances that preclude access to clinical learning by direct or indirect patient care.

This syllabus will describe remote learning, including but not limited to delivery methods such as readings, online modules, video presentations, or other.

A. Introduction

This is a two-week rotation. This rotation may be scheduled as a two week rotation to occur in a consecutive 2 week time period.

B. Course (Rotation) Objectives and Core Competencies

1. Medical Knowledge
   At the conclusion of this rotation, the student will demonstrate medical knowledge, understanding of disease process, and the student’s ability to apply cognitive skills in differential diagnosis as it relates to the assigned modules related to Opioid Use Disorder, Pain Management, Addictions, and MAT.

2. Patient Care
   Explain how to educate patients and/or caregivers and evaluate their comprehension of the diagnosis and treatment plan, including conveying clinical condition and obtaining informed consent prior to procedures.

3. Interpersonal and Communication Skills
   a. Summarize how to effectively communicate with patients, their family members, and the healthcare team regarding substance use disorders and pain.
   b. Explain how parental and patient concerns and perspectives including cultural and religious influences impact care of substance use disorders and pain.
   c. Explain how to share diagnostic plan of care, and prognostic information with patients and families regarding substance use disorders and pain.

4. Professionalism
   a. Detail an understanding of privacy and independence of adults and adolescents with substance use problems.
b. Explain how sensitivity, empathy and responsiveness to diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation impacts care of individuals with substance use disorders and pain.

5. **Systems-based Practice**
   Student will demonstrate the ability to understand his/her role as a member of the health care team, the student’s understanding of local community medical resources, and the student’s understanding of providing effective and cost effective medicine related to substance use.

6. **Osteopathic Relevance**
   Substance Use disorder and the Opioid Crisis is a crisis of mind-body-and-spirit. Competent care involves sensitive, respectful use of CDC guidelines and evidence-based best practices. Pain management using the least dangerous forms, particularly OMM, is in line with Osteopathic relevance.

C. **Study Guide**
   Using Online PCSS, the student will complete 35 modules on [https://onlinemeded.org/spa/cases](https://onlinemeded.org/spa/cases)

D. **COMAT Blueprint**
   N/A

E. **Required textbooks**
   None

F. **Other resources**
   Evidence Medicine Sites:
   - [www.ahrq.gov/clinic/cps3dix.htm](http://www.ahrq.gov/clinic/cps3dix.htm)
   - [www.clinicalkey.com](http://www.clinicalkey.com)
   - [www.cochrane.org/](http://www.cochrane.org/)

G. **Didactic and reading assignments**
   As above

H. **Additional Recommendations**
   None

I. **Patient Procedure Logs**
   None.
J. Grading/Calculations

1. Successful completion of assigned online course modules (pass is 70% on each module quiz) constitutes passage for the Elective.
Introduction to the ICU: Online Course

Introduction to the ICU: Online
Course Syllabus 2019-2020

Course director: Elizabeth Ziner, DO
eziner@osteo.wvsom.edu
Office phone: 304-647-6569

Dr. Ziner’s Administrative Assistant: April Williams
awilliams@osteo.wvsom.edu
Office phone: 304-793-6806

Thank you for participating in this course! I hope you’ll enjoy learning the content. This is a self-directed course designed to teach you introductory intensive care unit (ICU) principles and procedures. I have tried to provide you with very high-yield, easy to learn content. If you, along your journey, find other sources that you find helpful in learning these topics, please share them with me so that I can share them with others. You will also be given resources for you to use during your residency when you are responsible for direct patient care in the ICU – most of this content is under the “Additional (optional) Resources” heading for each module.

Just to be clear:

The Global Objective of the course is: Students will learn introductory intensive care unit principles and procedures required to diagnose and manage a critically ill patient with hypoxemia, hypercapnia, shock, and pneumonia.

The Global Outcome for the course is: Students will be able to apply the basic skills required to diagnose and manage a critically ill patient with hypoxemia, hypercapnia, shock, and pneumonia.

You may find the links to all of the policies, disclaimers, core entrustable professional activities for entering residency, and all other fine print related to this course at the end of this document. These are all in one place for your convenience.

It is imperative that you email your Statewide Campus Dean and April Williams, my administrative assistant @ awilliams@osteo.wvsom.edu, and tell them that you are officially taking this course.

Read this syllabus in its entirety.
**How to find this course in eMedley:** Login to eMedley, go to educate, then filter for 005-1 Statewide Campus Information – CO2020 & CO2021. Then search for ICU Online Course. All documents for the course are posted within the announcement folder. If you have difficulty accessing the course please email Janet Miller at jmiller@osteo.wvsom.edu or call her at 304-647-6278 or email Machelle Lisenmeyer at alisenmeyer@osteo.wvsom.edu or call her at 304-793-6871.

**For this course:**
The content in this course is broken down into eight modules. You will be busy during this two week rotation! Don’t procrastinate. Each module has a theme(s). Most of the content is found on the New England Journal of Medicine (NEJM) Website, NEJM Resident 360 website, UpToDate, YouTube, and a couple of other sources such as websites, and dare I say, one book chapter.

There are several NEJM Videos in Clinical Medicine for you to watch. To access these videos log into the NEJM website at [www.nejm.org](http://www.nejm.org). Once you are logged in click on the heading “Multimedia” then choose “Videos in Clinical Medicine” from the drop down menu, then simply scroll through them to find the video you have been directed to watch. Each video has a written article associated with it – I will want you to read through the written content. To find these just click on the “PDF” download button found to the left of the video. I will also want you to read any corrections to the articles or correspondence related to the articles – you can find those links to the right of the video under the heading “related articles”.

You will need to set up a “NEJM Resident 360“ account. Instructions on how to do this are provided in the screen shot below. If you have trouble setting up your account please contact the library library@osteo.wvsom.edu or call (304) 647-6261. I will not be able to help you with that. Once you’ve created your account follow the login instructions provided on the screenshot below (next page).
I have also found another way to login to NEJM Resident 360. Go to www.nejm.org then in the top left hand corner of the website there is a drop down menu called “NEJM Group” – hover over the menu, then choose “NEJM Resident 360”. Then use the username/password you created for the NEJM Resident 360 site. See the screen shots below. I think you all will enjoy using NEJM Resident 360 – it has a lot of nice content.
I have provided you with the links to the YouTube videos and other websites. Simply hover your cursor over the hyperlink and click. If for some reason it doesn’t work I’ve provided enough information to you so that you can find the video on your own if needed. You could also copy and paste the hyperlink into your web browser.

Read the outcomes for each module and try to focus in on those while going through the content.
If you are unable to find the content that is not accessed via the WVSOM library (such as a YouTube video or a website), please contact me or my administrative assistant April Williams at awilliams@osteo.wvsom.edu or phone 304-793-6806. If you are having trouble accessing content that you access via the WVSOM library (such as NEJM, NEJM Resident 360, Clinical Key, etc.) then you need to contact the library to help you gain access at library@osteo.wvsom.edu or call (304) 647-6261.

This elective rotation is pass/fail. There is no remediation. See below for how you will be evaluated. When you have completed all the modules:

1. You will have a 10 question quiz in Universal Notes. You may take the quiz as many times as you need in order to achieve a score of \( \geq 80\% \). Please see the instructions below on how to access the quiz.

2. You will write two board style questions, in clinical vignette style. You must choose from the topics listed in the required modules. You must provide your rational for the correct answer and provide a list of references you used to create the question. The references need to be in AMA format. I will review the questions and give you feedback about them – you will be able to resubmit any question(s) which needs improvement. Please review the document “Writing medical board questions” and follow these guidelines when writing your questions. This document can be found in eMedley under this course. You will submit your questions to my administrative assistant April Williams at awilliams@osteo.wvsom.edu. Her phone number is 304-793-6806. Your questions should be saved as a word document as follows: lastname.ICU.dateofsubmission for example, “Ziner.ICU.3.25.20”

3. The quiz and all submissions of board style test questions (including resubmissions of test questions) will need to be completed no later than 5 days from the last official day of the rotation. This is a 14 day rotation.

4. Just an FYI (and I hate to even say it) but failure to complete the above is considered a violation of WVSOM’s policy on student professionalism Institutional Policy ST-01 (https://www.wvsom.edu/About/policies_procedures) and will be reported as such. I know that this will not be a problem with anyone taking this course!

To access the quiz:

1. Log into Universal Notes at https://web.myuniversalnotes.com/index#home
2. Click on the Q-bank (circled Q on left column)
3. Click on Start a Quiz
4. In the “Questions by Tag” drop down menu select Topic and
5. In the box labeled “topic tags” type: Rotation Exam: WVSOM Intensive Care Unit. Click to select that exam.
6. Select appropriate testing mode (Test Mode will lock you into 1 minute per question)
7. Set number of questions to 10
8. Click Submit and begin the test
9. At the end of the test click Finish Quiz and it will show your results.

Retake your quiz by clicking on “retake quiz” (as seen in the screenshot below) or by following the steps above.
I hope you enjoy working through the modules! At the end of the course you will receive a survey - thank you in advance for your thoughtful feedback on how to improve the course.

Before we get started let’s review the osteopathic relevance for this course:

**Osteopathic Relevance:**
It is of the utmost importance that an osteopathic physician be able to initiate management of a critically ill patient and do so with empathy and compassion for the patient and the family. Osteopathic physicians do so while remembering the Four Tenets of Osteopathic Medicine:

1. The body is a unit
2. Structure and function are interdependent
3. The body has self-healing and self-regulatory capabilities
4. Rational osteopathic care relies on the integration of these tenets in patient care

The osteopathic physician should always:

1. Apply the five models of osteopathic care to each relevant clinical scenario;
2. Diagnose and treat related somatic dysfunction when applicable;
3. Determine if OMT is primary, supportive, or non-contributory to treatment of the representative cases.
Please also refer to the osteopathic code of ethics that can be found in your clinical education manual at https://www.wvsom.edu/sites/default/files/u127/%24Clinical_Manual_2018-19%20Class%20of%202020rev101419.pdf

Osteopathic Oath

The Osteopathic Oath

I do hereby affirm my loyalty to the profession I am about to enter.

I will be mindful always of my great responsibility to preserve the health and life of my patients, to retain their confidence and respect both as a physician and a friend who will guard their secrets with scrupulous honor and fidelity, to perform faithfully my professional duties, to employ only those recognized methods of treatment consistent with good judgement and with my skill and ability, keeping in mind always nature’s laws and the body’s inherent capacity for recovery.

I will be ever vigilant in aiding in the general welfare of the community, sustaining its laws and institutions, not engaging in those practices which will in any way bring shame or discredit upon myself or my profession. I will give no drugs for deadly purposes to any person, though it be asked of me.

I will endeavor to work in accord with my colleagues in a spirit of progressive cooperation, and never by word or by act cast imputations upon them or their rightful practices.

I will look with respect and esteem upon all those who have taught me my art. To my college I will be loyal and strive always for its best interests and for the interests of the students who will come after me. I will be ever alert to further the application of basic biologic truths to the healing arts and to develop the principles of osteopathy which were first enunciated by Andrew Taylor Still.
Module One

Hypoxemia and Hypercapnia

Oximetry

Acute respiratory failure

Capnography

Outcomes for Module One

- Students will be able to create a differential diagnosis for hypoxemia. AACOM 2016 and AAMC 2017 EPA 2
- Students will be able to recognize clinical features of hypercapnia and create a differential diagnosis of hypercapnia. EPA 2
- Students will be able to describe different oxygen delivery devices. EPA 10
- Students will be able to describe proper use and the limitations of pulse oximetry. EPA 10
- Students will be able to create a differential diagnosis for acute respiratory failure. EPA 2 and 10
- Students will be able to describe how capnography is used to monitor patients. EPA 10

Assignments for Module One

- Find Chapter 36 “Acute Respiratory Failure” in the book Critical Care Medicine: Principles of Diagnosis and Management in the Adult, 5th edition, in Clinical Key. Just read all the sections up to Acute Respiratory Distress Syndrome (ARDS). You do not need to read the ARDS sections in this chapter. You will be learning about ARDS later.
- In UpToDate read “Measures of oxygenation and mechanisms of hypoxemia”
- In UpToDate read “The evaluation, diagnosis, and treatment of the adult patient with acute hypercapnic respiratory failure”
- Watch YouTube video “Oxygen delivery devices in ICU.” (8 minutes 11 seconds) by IUCriticalCare at https://www.youtube.com/watch?v=IYc-cjd3x-A&t=252s
- Watch YouTube video “Oxygen Delivery Device” (4 minutes 19 seconds) by xtremern1 at https://www.youtube.com/watch?v=LGxV9mHqXP0&t=36s
- Learn about different Oxygen Delivery Devices by going to the website https://teachim.org/2017/07/15/oxygen-delivery-devices/
- Watch the video on YouTube titled “RT Clinic: Heated High Flow Cannula” (11 minutes 30 seconds) https://www.youtube.com/watch?v=tGtbHxjS6r8
- In NEJM watch the video in clinical medicine on “Pulse Oximetry” (16 minutes 4 seconds). Also read its accompanying PDF article (April 21, 2011 N Engl J Med 2011; 364:e33 DOI: 10.1056/NEJMvcm0904262). To access the video sign in to NEJM.org. Click on “Multimedia” select “Videos in Clinical Medicine”, then find the video. Find the PDF by clicking on “PDF” located to the left of the video image.
- Watch the NEJM video in Clinical Medicine “Monitoring Ventilation with Capnography” (16 minutes 31 seconds) and read its accompanying PDF article (November 8, 2012 N Engl J Med 2012; 367:e27 DOI: 10.1056/NEJMvcm1105237)
Additional (optional) resources for Module One:

- Read through the journal article “BTS guideline for oxygen use in adults in healthcare and emergency settings” (O’Driscoll BR, et al. Thorax 2017;72:i1–i90. doi:10.1136/thoraxjnl-2016-209729) can be accessed at https://thorax.bmj.com/content/thoraxjnl/72/Suppl_1/ii1.full.pdf
- https://www.capnography.com/ This is a terrific website for learning more about capnography!
- UpToDate “Carbon dioxide monitoring (capnography)”

Module Two
Use of Bag Valve Mask (BVM)
Intubation
Mechanical Ventilator Basics and Intro to Noninvasive Positive Pressure Ventilation
The ventilator bundle (strategies to prevent ventilator associated pneumonia)

Outcomes for Module Two

- Students will be able to describe the proper use of a bag valve mask. EPA 12
- Students will be able to describe how to intubate a patient. EPA 12
- Students will be able to describe noninvasive positive pressure ventilation. EPA 12
- Students will be able to describe basic ventilator modes (assist control - pressure control or volume control, pressure support). EPA 12
- Students will be able to give examples of how to prevent ventilator associated pneumonia. EPA 13

Assignments for Module Two

- Watch the YouTube Video “Lesson 3 – Mask Ventilation: MICU Fellows Airway Course” (8 minutes 23 seconds) by Dr. Gallagher’s Neighborhood at https://www.youtube.com/watch?v=Igoz1L28kUQ

• Watch the YouTube video “Lesson 5 - Direct Laryngoscopy: MICU Fellows Airway Course” (14 minutes 32 seconds) by Dr. Gallagher’s Neighborhood at https://www.youtube.com/watch?v=ZJlFb7IGPic

• Watch the YouTube video “Anatomical Landmarks When Intubating” (7 minutes 24 seconds) by George O. RRT at https://www.youtube.com/watch?v=P9U4nBziew&list=WL&index=3&t=63s

• In NEJM Resident 360 click on “Rotation Prep”, select the “critical care” rotation
  o Click on the “ventilation” tab read all of the information under heading “fast facts”.
  o Scroll down towards the bottom of site and click on the “additional resources” heading and watch the NEJM video in clinical medicine: “noninvasive positive pressure ventilation” (10 minutes 20 seconds) and read its accompanying PDF article (June 4, 2015, N Engl J Med 2015; 372:e30, DOI: 10.1056/NEJMvcm1313336).
  o This part of the assignment is not required but strongly recommended especially before your ICU rotation during residency…watch the MedCram videos “Mechanical ventilation explained clearly” See below for the complete list of MedCram vent videos.

• Watch the YouTube video “Ventilator Association Pneumonia Prevention” (1 minute 53 seconds) by Kaiser Permanente Thrive at https://www.youtube.com/watch?v=51VraZs4W-U

• In UpToDate read “Risk factors and prevention of hospital-acquired and ventilator-associated pneumonia in adults”

MedCram Vent Videos found on YouTube

• Mechanical Ventilation Explained Clearly – Ventilator Settings and Modes (Remastered) by MedCram https://www.youtube.com/watch?v=i6hmGVbbIJk

• Ventilator Modes Explained! PEEP, CPAP, Pressure vs. Volume at https://www.youtube.com/watch?v=jP_jN1gAPtI

• Mechanical Ventilation Explained Clearly - Ventilator Settings & Modes at https://www.youtube.com/watch?v=gk_OF-JAL84&t=13s

• Mechanical Ventilation Explained Clearly by MedCram.com | 2 of 5 at https://www.youtube.com/watch?v=K0maLgTzlto

• Mechanical Ventilation Explained Clearly by MedCram.com | 3 of 5 at https://www.youtube.com/watch?v=6Bdv7QhNNy4

• Mechanical Ventilation Explained Clearly by MedCram.com | 4 of 5 at https://www.youtube.com/watch?v=KHpJ21UWbhg

• Mechanical Ventilation Explained Clearly of MedCram.com | 5 of 5 at https://www.youtube.com/watch?v=Jx7oeJKzI9g
• Ventilator Pearls Explained Clearly at https://www.youtube.com/watch?v=NUN32O054G0
• Ventilator Pearls Explained Clearly by MedCram.com | Part 2 at https://www.youtube.com/watch?v=ex4Uh2J2hWQ

Additional (optional) Resources for Module Two
• UpToDate article “Rapid sequence intubation for adults outside the operating room”
• YouTube video “Lesson 6 - Glidescope® or its Cousins: MICU Fellows Airway Course” by Dr. Gallagher’s Neighborhood at https://www.youtube.com/watch?v=1lk_z8kGwt4
• YouTube video “Will This Patient be Difficult to Intubate?” by JAMA Network at https://www.youtube.com/watch?v=RnclqUYfjwY
• For a very brief overview of ventilator go to the website, Merck Manual Professional Version, search for “Overview of Mechanical Ventilation” or click on the link https://www.merckmanuals.com/professional/critical-care-medicine/respiratory-failure-and-mechanical-ventilation/overview-of-mechanical-ventilation
• For a brief overview of ventilator management go to the website Stat Pearls Ventilator Management at https://www.ncbi.nlm.nih.gov/books/NBK448186/
• Series of ventilator lectures by Strong Medicine on YouTube: for a complete list go to https://www.youtube.com/playlist?list=PLBA5A30910F1FBF47
• Rebelem.com also does a series on ventilator videos on YouTube (see the list below)
  o Frank Lodeserto at REBEL EM: Simplifying Mechanical Ventilation – Part 1
  o Frank Lodeserto at REBEL EM: Simplifying Mechanical Ventilation Part 2 – Goals of Mechanical Ventilation & Factors Controlling Oxygenation and Ventilation
  o Frank Lodeserto at REBEL EM: Simplifying Mechanical Ventilation Part 3 – Severe Metabolic Acidosis
  o Frank Lodeserto at REBEL EM: Simplifying Mechanical Ventilation Part 4 – Obstructive Physiology
  o Frank Lodeserto at REBEL EM: Simplifying Mechanical Ventilation Part 5 – Refractory Hypoxemia & APRV
  o Frank Lodeserto at REBEL EM: Simplifying Mechanical Ventilation Part 6 – Choosing Your Initial Settings
Module Three

Arterial blood gas (ABG) interpretation

Insertion of arterial line

Arterial line (pressure transducer) troubleshooting

Venous blood gas (VBG) interpretation

Outcomes for Module Three

- Students will be able to interpret an arterial blood gas result. EPA 3
- Students will be able to create a differential diagnosis for an acid base disorder. EPA 2
- Students will be able to describe how to insert an arterial catheter. EPA 12
- Students will be able to troubleshoot problems with an arterial catheter. EPA 12

Note to the students: ABGs take some time to master. Keep learning and practicing!! Find a system that works for you and stick with it!!

Assignments for Module Three

- Watch the YouTube video “Understand the Arterial Blood Gas “ABG”! Awesome!” (22 minutes 20 seconds) https://www.youtube.com/watch?v=1TnykLis7nA by MedImmerson. This is a good introduction video to ABG interpretation.
- Here is another good introductory ABG video on YouTube, “Acid/Base || USMLE” (8 minutes 22 seconds) by Dirty Medicine at https://www.youtube.com/watch?v=J9jisOXB_Oo&t=189s
- Then read NEJM article “Physiological Approach to Assessment of Acid-Base Disturbances” (October 9, 2014, N Engl J Med 2014; 371:1434-1445 DOI: 10.1056/NEJMra1003327) and work through the examples at the end of the article and those in the supplementary appendix (click on the supplementary appendix link in the article to access those exercises – keep scrolling down the supplement to find the exercises). Read the correction to the original article – find the link to the correction on the right hand side of the screen listed under “related articles”. Because this article and the supplement can be a little difficult to find, I’ve uploaded it into eMedley for you. Go to the course “Introduction to the ICU: Online Course” and find the document entitled, “Physiological Approach to Assessment of Acid-Base Disturbances”, the document called “ABG NEJM Supplement”, and the document called “Correction to ABG NEJM Article”.
- Watch the NEJM video in clinical medicine “Ultrasound Guided Insertion of a Radial Arterial Catheter” (9 minutes and 35 seconds) and read its accompanying PDF article (October 9, 2014, N Engl J Med 2014; 371:e21, DOI: 10.1056/NEJMvcm1213181).
- Watch the NEJM video in clinical medicine “Use of Pressure Transducers” (13 minutes and 21 seconds) and read its accompanying PDF article (April 6, 2017, N Engl J Med 2017; 376:e26, DOI: 10.1056/NEJMvcm1513613) and the correspondence about the article (July 27, 2017, N Engl J Med 2017; 377:400-401, DOI: 10.1056/NEJMc1705833)
- Read the UpToDate article “Venous blood gases and other alternatives to arterial blood gases”

Additional (optional) Resources for Module Three
• American Thoracic Society (ATS) ABG Interpretation website
• There is a series of ABG Lectures on YouTube on Strong Medicine – these are very comprehensive and would be good to watch before your residency
https://www.youtube.com/playlist?list=PLFDCF820E88FC83ED
• An online acid-base book can be found at
https://www.anaesthesiamcq.com/AcidBaseBook/ABindex.php
• The above website has practice cases that you can work through and you can access those at https://www.anaesthesiamcq.com/AcidBaseBook/ab9_6.php#cases

Module Four
Acute Respiratory Distress Syndrome (ARDS)
The Prone Position in ARDS
Community Acquired Pneumonia (CAP)
Health care associated pneumonia (HCAP)/Ventilator associated pneumonia (VAP)

Outcomes for Module Four
• Students will be able to describe the pathophysiology of acute respiratory distress syndrome. EPA 2
• Students will be able to diagnose acute respiratory distress syndrome. EPA 2
• Students will be able to create a differential diagnosis for acute respiratory distress syndrome. EPA 2
• Students will be able to explain why prone positioning is used in acute respiratory distress syndrome. EPA 12
• Students will be able to diagnose community acquired pneumonia, hospital acquired pneumonia, and ventilator associated pneumonia. EPA 2
• Students will be able to access the guidelines for community acquired pneumonia, hospital acquired pneumonia, and ventilator associated pneumonia. EPA 7

Assignments for Module Four
• Watch the YouTube video “Acute Respiratory Distress Syndrome (ARDS)” (13 minutes 16 seconds) by Doctor Mike Hansen at https://www.youtube.com/watch?v=INGKH7JnIpM&list=WL&index=8&t=0s
• In NEJM Resident 360 click on the “rotation prep” tab, click on the “change rotation” tab and choose “critical care”, then click on the “ARDS” tab, read everything under the “fast facts” tab
• Watch the YouTube video “Acute respiratory distress syndrome ( ARDS ) Etiology, Clinical features, Diagnosis, and Treatment” (21 minutes 59 seconds) by Premiered at https://www.youtube.com/watch?v=KXw8LXKcmrw&list=WL&index=9&t=1052s
• Watch the YouTube video “Proning the ARDS patient- why do we do it?” (3 minutes and 57 seconds) by Jonathan Downham at https://www.youtube.com/watch?v=FS4t5w1eCYw&list=WL&index=1
• In NEJM Resident 360 click on the “rotation prep” tab, click on the “change rotation” tab and choose “infectious disease”, then click on the “pneumonia tab”, read everything under the “fast facts” tab

Additional (optional) Resources for Module Four (you should know the guidelines below when you do your residency)
• Download your very own ARDS ventilator protocol pocket card at http://www.ardsnet.org/tools.shtml
• Centers for Disease Control (CDC) CAP/HAP links to Prevention Guidelines found at https://www.cdc.gov/pneumonia/management-prevention-guidelines.html

Module Five
Sedation and delirium in the ICU
Stress ulcer prophylaxis
DVT prophylaxis

Outcomes for Module Five
• Students will be able to describe the use of sedation in the intensive care unit (ICU). EPA 4
• Students will be able to describe the causes of delirium in the intensive care unit. EPA 2
• Students will be able to describe strategies to reduce delirium in the ICU (i.e. the general principles of the ABCDEF bundle and the PADIS mnemonic (guidelines)). EPA 13
• Students will be able to identify which patients require stress ulcer prophylaxis. EPA 4
• Students will be able to describe the general principles of venous thromboembolism prevention. EPA 4

Assignments for Module Five
• In NEJM Resident 360 click on the “rotation prep” tab, click on the “change rotation” tab and choose “critical care”, then click on the “sedation and delirium” tab, read everything under the “fast facts” tab
  o Scroll down to the bottom and click on “additional resources” and click to view the CAM (Confusion Assessment Method) Worksheet – just look around so you can see all of the resources you could use in the future.
• Go to https://www.sccm.org/ICULiberation/ABCDEF-Bundles and read the purpose for the ABCDEF Bundle, know what the mnemonic stands for, and click around to skim through the various components, see the resources available for you to use in the future. FYI - You will need to know this stuff for your residency ICU rotations.
• Go to https://www.sccm.org/ICULiberation/Guidelines and skim through this website, know what the mnemonic PADIS stands for, and see the resources available for you to use in the future. FYI - For your residency ICU rotation you will need to know the PADIS Guidelines, which you can download at the website above but you don’t need to read through them today.
• Read the “summary and recommendations” section in the UpToDate article “Stress ulcers in the intensive care unit: Diagnosis, management, and prevention”, (reading the entire article is much better), know which patients require stress ulcer prophylaxis.
• In the UpToDate article “Prevention of venous thromboembolic disease in acutely ill hospitalized medical adults” read the following sections: introduction, epidemiology, definition of VTE prophylaxis, our approach, and the summary and recommendations. Skip the section on “methods of thromboprophylaxis” (just know that you will need to know this for your residency).

Additional (optional) Resources for Module Five
• Read the UpToDate article “Sedative-analgesic medications in critically ill adults: Selection, initiation, maintenance, and withdrawal”
• Read the UpToDate article “Sedative-analgesic medications in critically ill adults: Properties, dosage regimens, and adverse effects”
Module Six

Types of shock

Vasopressors

Central line placement

PICC line placement

Outcomes for Module Six

- Students will be able to describe the different types of shock. EPA 2
- Students will be able to diagnose a patient with shock. EPA 2
- Students will be able to describe the general principles for the treatment of shock. EPA 4
- Students will be able to describe the different vasopressors used in shock. EPA 4
- Students will be able to describe how to place a central venous catheter using ultrasound guidance. EPA 12
- Students will be able to describe how a PICC line is inserted. EPA 12

Assignments for Module Six

- In NEJM Resident 360 click on the “rotation prep” tab, click on the “change rotation” tab and choose “critical care”, then click on the “shock and sepsis” tab, read everything under the “fast facts” tab
- Watch the YouTube videos on shock by Strong Medicine – as listed below
  - Shock: Lesson 1 - Diagnosis and Classification (12 minutes 37 seconds) at [https://www.youtube.com/watch?v=vKr_B6zw7M8&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9](https://www.youtube.com/watch?v=vKr_B6zw7M8&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9)
  - Shock: Lesson 2 - Distinguishing Shock Types (Hypovolemic/Distributive/Cardiogenic/Obstructive) (23 minutes 33 seconds) at [https://www.youtube.com/watch?v=HA_zX-uMiNU&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=2](https://www.youtube.com/watch?v=HA_zX-uMiNU&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=2)
  - Shock: Lesson 3 - General Treatment Principles (5 minutes 10 seconds) at [https://www.youtube.com/watch?v=NWjNPtsZKOs&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=3](https://www.youtube.com/watch?v=NWjNPtsZKOs&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=3)
  - IV Fluid Resuscitation (IVF Lesson 3 / Shock Lesson 4) (21 minutes 8 seconds) at [https://www.youtube.com/watch?v=r14sqgk2d0Q&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=4](https://www.youtube.com/watch?v=r14sqgk2d0Q&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=4)
  - Shock: Lesson 5 – Pressors (17 minutes 5 seconds) at [https://www.youtube.com/watch?v=WHGURz11-nE&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=5](https://www.youtube.com/watch?v=WHGURz11-nE&list=PLYojB5NEEakXi2wW00LkbkcaESav1Quk9&index=5)
- Watch one out of the two following NEJM videos in clinical medicine on central line placement using ultrasound in its entirety (and read the accompanying pdf), the others are there for your reference. The last three videos rely on anatomical land marks for placement (good to know in case ultrasound isn’t available – you don’t need to watch them now unless you want to)
• “Central Venous Catherization” – this video cannulates the right internal jugular vein (15 minutes 28 seconds), May 24, 2007, N Engl J Med 2007; 356:e21, DOI: 10.1056/NEJMvcm055053

• Watch the YouTube video on “PICC LINE INSERTION FULL PROCEDURE” (14 minutes and 14 seconds) by Toni Aoun at https://www.youtube.com/watch?v=9FvUsjje8ic

• Read the UpToDate article “Complications of central venous catheters and their prevention”

Additional (optional) Resources for Module Six
• Journal Article “The RUSH Exam: Rapid Ultrasound in Shock in the Evaluation of the Critically Ill” can be found at https://www.medschool.lsuhsc.edu/emergency_medicine/docs/RUSH%20protocol.pdf
• You can YouTube various videos about the RUSH ultrasound exam for further information
• Before your residency you should be familiar with central line associated blood stream infections. For an introduction to this topic read the online article “Central Line Associated Blood Stream Infections (CLABSI)” by StatPearls found at https://www.ncbi.nlm.nih.gov/books/NBK430891/
• You Tube video by MedCram “Shock Explained Clearly - Cardiogenic, Hypovolemic, and Septic” at https://www.youtube.com/watch?v=CbM4UiHE1TQ
• UpToDate article, “Intravascular catheter-related infection: Prevention”
Module Seven
Sepsis
Septic Shock
CXR Interpretation

Outcomes for Module Seven

- Students will be able to describe sepsis and septic shock. EPA 2
- Students will be able to recognize and diagnose a patient with sepsis and septic shock. EPA 2
- Students will be able to initiate treatment for sepsis and septic shock using the one hour bundle. EPA 4
- Students will know where to find the complete guidelines used to diagnose and treat septic shock. EPA 7
- Students will be able to interpret a normal and an abnormal chest x-ray. EPA 3

Assignments for Module Seven

- Watch the YouTube video “Sepsis and Septic Shock” (17 minutes 20 seconds) by Strong Medicine at https://www.youtube.com/watch?v=3EVpyBQRw5Y
- Read the UpToDate article “Sepsis syndromes in adults: Epidemiology, definitions, clinical presentation, diagnosis, and prognosis”. Know how to identify patients with sepsis, i.e. how to diagnose it. Early recognition of sepsis is critical to improving mortality. Sepsis is a medical emergency!
- Go to the website https://www.sccm.org/SurvivingSepsisCampaign/Home
  - Hover over the tab “guidelines and bundles”, choose “adult patients” from the drop down menu, scroll down and read the “1-hour bundle” information, know all of the one hour bundle elements.
  - Click on the “Hour-1 Bundle Pocket Card and Infographic” and read through it – you can download this for yourself if you’d like.
  - Go back to the website (listed above) and hover over the tab “tools and education”, choose “implementation guide” from the drop down menu. Download and read through the entire guide.
  - Eventually you will need to know the entire sepsis guideline for your residency, if you want to download it now just go back to the “guidelines and bundles” tab, choose “adult patients” from the drop down menu, then click on the blue wording that says “Critical Care Medicine” or “Intensive Care Medicine”. You do not need to read through this now. For now I want you to be able to identify a septic patient and know how to start the one hour bundle. Also know that if the nurse cannot draw blood cultures on the patient (because of difficulty getting IV access, etc), this should not delay the administration of antibiotics. But every reasonable effort should be made to try to get the cultures first. Remember antibiotics in sepsis is life saving!
  - Go back to the website (listed above) and hover over the tab “tools and education”, choose “protocols and checklists” from the drop down menu. Check
out some of the ways hospitals choose to identify patients with sepsis i.e. their protocols. Every hospital has their own protocol – when you get out to your residency make sure you know your hospital’s protocol for identifying septic patients. However, every hospital should follow the one hour sepsis treatment bundle and the rest of the sepsis guidelines.

- Watch the video “The Hour One Bundle Functional or Fantasy” (31 minutes 1 second) located on the website [https://www.sccm.org/LearnICU/Resources/Surviving-Sepsis-Campaign-Hour-1-Bundle-Teaching-S](https://www.sccm.org/LearnICU/Resources/Surviving-Sepsis-Campaign-Hour-1-Bundle-Teaching-S)
- Watch the YouTube CXR Lecture Series on CXR interpretation done by Strong Medicine (11 videos, each video is between 11 – 24 minutes). The list can be found via this link [https://www.youtube.com/watch?v=PDaRNPUNc10&list=PLYojB5NEEakU6vTUAoUeVhgRzQgaoSnFi&index=2&t=0s](https://www.youtube.com/watch?v=PDaRNPUNc10&list=PLYojB5NEEakU6vTUAoUeVhgRzQgaoSnFi&index=2&t=0s)

**Additional (optional) Resources for Module Seven**

- Download the phone app “Sepsis Clinical Guide” – this is a very good app.
- Chest radiographs at [https://www.saem.org/cdem/education/online-education/m3-curriculum/group-diagnostic-testing/radiographic-interpretation/chest-radiograph](https://www.saem.org/cdem/education/online-education/m3-curriculum/group-diagnostic-testing/radiographic-interpretation/chest-radiograph)

**Module Eight**

**Communication of bad news**

**DNR Orders**

**Palliative care in the ICU**

**Post-ICU care syndrome**

**Neuromuscular weakness related to critical illness**

**Outcomes for Module Eight**

- Students will be able to apply breaking bad news techniques during patient encounters. EPA 1
- Students will be able to discuss Do Not Resuscitate wishes with a patient. EPA 11
- Students will be able to describe the general principles of palliative care in the intensive care unit. EPA 4
- Students will be able to describe post-ICU syndrome and describe the general strategies employed to mitigate the syndrome. EPA 2
- Students will be able to describe intensive care unit-acquired weakness (ICUAW). EPA 2

**Assignments for Module Eight**

• Watch the YouTube video “5 Tips for breaking bad news to patients” (47 seconds) by TheDOMagazine at https://www.youtube.com/watch?v=tGxnBDi9Vv8
• Watch the YouTube video “How Should Providers Deliver Bad News?” (7 minutes 27 seconds) by IHI Open School at https://www.youtube.com/watch?v=qHGvij_7PLU
• Watch the YouTube video “We’re Doing Dying All Wrong | Ken Hillman | TEDxSydney” (14 minutes 2 seconds) by Tedx Talks at https://www.youtube.com/watch?v=gQVC-8WEB7s
• Watch the YouTube video “How to Discuss Do Not Resuscitate (DNR) Orders with Patients” (11 minutes 8 seconds) by OhioHealth at https://www.youtube.com/watch?v=-H6-yUpzd4
• Watch the YouTube video “DNR Code Status Explained Clearly” (14 minutes 9 seconds) by MedCram at https://www.youtube.com/watch?v=L3ejcbtaXEc
• Watch the YouTube video “Palliative Care in the ICU & End of Life Care Explained Clearly” (8 minutes 37 seconds) by MedCram at https://www.youtube.com/watch?v=b3QraGZ9BSg
• Read the UpToDate article “Palliative care: Issues in the intensive care unit in adults”
• Watch the YouTube video “Post-intensive care syndrome? What is it? How can we help?” (26 minutes 14 seconds) by Critical Care Summit at https://www.youtube.com/watch?v=WpKnLeNJRfA
• Watch the video on “Intensive care unit-acquired weakness: The next challenge” (3 minutes 52 seconds) at https://www.esicm.org/ictv-intensive-care-unit-acquired-weakness-angus-dec-2017/

Additional (optional) Resources for Module Eight
• UpToDate article “Palliative care: The last hours and days of life”
• UpToDate article “Post-intensive care syndrome (PICS)”
• YouTube video “THRIVE: Redefining Recovery” by SCCM at https://www.youtube.com/watch?v=T03palv4mYU
• UpToDate article “Neuromuscular weakness related to critical illness”

Policies, disclaimers, and other resources (i.e. the fine print) for this course

Failure to Complete Required Assignments
Failure to complete the required assignments listed in this document is considered a violation of WVSOM’s policy on student professionalism Institutional Policy ST-01 (https://www.wvsom.edu/About/policies_procedures) and will be reported as such.

Evaluation Policies
Students will receive a pass or fail from this elective. Evaluation will be based on completion of assignments.
Remediation Policy
There is no remediation for this elective.

Core Competencies
Please refer to your student “Clinical Education Manual” for information regarding core competencies and core entrustable professional activities for entering residency. Your manual can be found at https://www.wvsom.edu/Academics/publications/Clinical_Education_Manual.

The core competencies can be found using this link: http://www.wvsom.edu/Academics/pre-clinica-competencies

The AACOM 2016 core entrustable professional activities for entering residency can be found at https://www.aacom.org/docs/default-source/med-ed-presentations/core-epas.pdf?sfvrsn=10

The AAMC 2017 core entrustable professional activities for entering residency can be found at https://www.aamc.org/what-we-do/mission-areas/medical-education/cbme/core-epas/publications

Professionalism
Professionalism will be exhibited each day in class and each student will be expected to adhere to institutional policy ST-01 and their own statement below which was written by the student government association:

“As medical students of the West Virginia School of Osteopathic Medicine, we acknowledge and value the importance of professional conduct. We recognize that the behavior and attitudes of individuals and groups reflects on all of us, our institution, and our profession. Professionalism encompasses but is not limited to the virtues of respect, integrity, honesty, confidentiality, and dependability. We will strive to uphold these values in our endeavors at all times. We will show honesty and integrity to all those we come into contact with, meaning that we will adhere to the moral and ethical principles we have been taught and show soundness of moral character. We will be expected to maintain confidentiality in all settings no matter how small the issue. Above all else we will show self-less service to our patients, colleagues, institution and community.”

For further details that relate to professional behavior, refer to the following institutional policies that can be accessed on the WVSOM Website at http://www.wvsom.edu/About/policies_procedures

Copyright
Materials used in this course may be copyrighted and should not be shared with individuals not currently enrolled in this course. Sharing copyrighted materials outside of WVSOM will result in having a note in the student’s Dean’s file regarding unprofessional conduct.
All Institutional Student Related Policies
To view all institutional student related policies, log onto the WVSOM web page and access the following: http://www.wvsom.edu/OMS/student-policies

This syllabus is subject to change upon written notification.