**Certified Medical Educators, LLC**

**Lecture Objectives**

Topics discussed are those listed on the NCCPA content blueprint

**Cardiology I Review**

Learning objectives for this session:

1. Review cardiac anatomy and pathophysiology
2. Describe presentations and signs and symptoms of cardiac disorders of conduction disorders, hypertension, coronary artery disease and myocardial ischemia and infarction
3. List laboratory and diagnostic studies for the above cardiac disorders
4. Discuss treatments including non-pharmacologic and pharmacology therapy of the above cardiac disorders
5. Identify cardiac emergencies

**Ophthalmology Review**

Learning objectives:

1. Review ophthalmic anatomy
2. Describe presentations and signs and symptoms of ophthalmic disorders
3. List laboratory and diagnostic studies for ophthalmic disorders
4. Discuss non-pharmacologic and pharmacology therapy of ophthalmic disorders
5. Identify ophthalmic emergencies and when to refer the patient

**Pulmonary I Review**

Learning objectives:

1. Review pulmonary anatomy and pathophysiology
2. Describe presentations and signs and symptoms of pulmonary disorders including asthma, chronic obstructive pulmonary disease, cystic fibrosis, pulmonary infections and acute respiratory distress syndrome
3. List laboratory and diagnostic studies for the above pulmonary disorders
4. Discuss non-pharmacologic and pharmacology therapy of the above pulmonary disorders
5. Review arterial blood gas values

**Pulmonary II Review**

Learning objectives:

1. Review benign and malignant pulmonary tumors
2. Describe presentations and signs and symptoms of pulmonary disorders including pleural effusion, empyema, pneumothorax, pulmonary embolism and cor pulmonale
3. List laboratory and diagnostic studies for the above pulmonary disorders
4. Discuss treatments including non-pharmacologic and pharmacology therapy of the above pulmonary disorders
5. Identify pulmonary emergencies

**Gastroenterology I Review**

Learning objectives:

1. Review gastroenterology anatomy and pathophysiology
2. Describe presentations and signs and symptoms of gastroenterology disorders of the esophagus, stomach, intestine, rectum and appendix
3. List laboratory and diagnostic studies for the above gastroenterology disorders
4. Discuss non-pharmacologic and pharmacology therapy of the above gastroenterology disorders
5. Identify gastroenterology emergencies

**Gastroenterology II Review**

Learning objectives:

1. Review common nutritional disorders
2. Summarize hepatitis A, B, C and D including serologies
3. Describe presentations and signs and symptoms of gastroenterology disorders of the pancreas, gallbladder, and liver
4. List laboratory and diagnostic studies for the above gastroenterology disorders
5. Discuss non-pharmacologic and pharmacology therapy of the above gastroenterology disorders

**Infectious Disease Review**

Learning objectives:

1. Review spirochetal diseases including Lyme’s disease
2. Describe presentations and signs and symptoms of infectious diseases including bacterial, viral, fungal, parasitic diseases
3. List laboratory and diagnostic studies for the above infectious disease disorders
4. Discuss treatments including non-pharmacologic and pharmacology therapy of the above infectious disease disorders

**Pharmacology/HIV Review**

Learning objectives: Michael Nowak MPAS, PA-C

1. Review antibiotic classes and their clinical uses
2. List antibiotic pregnancy classes
3. Describe common antibiotic adverse reactions
4. Summarize antivirals and their clinical uses
5. Review antifungal agents, their adverse reactions and clinical uses

**Advanced EKG Workshop**

Learning objectives:

1. Demonstrate techniques of interpreting an EKG, including leads, AXIS and rhythm patterns
2. Relate EKG waveforms to the cardiac cycle
3. Summarize the specific EKG changes associated with myocardial ischemia, injury and infarction
4. Discuss specific diagnostic criteria for ventricular enlargement and bundle branch blocks
5. Identify causes and concerns of QT prolongation
6. Review electrolyte abnormalities and their effects on an EKG
7. Describe Wolff-Parkinson-White syndrome
8. Discuss the effects of digitalis on an EKG

**Cardiology II Review**

Learning objectives for this session:

1. Review cardiomyopathies including dilated, hypertrophic and restrictive types
2. Describe presentations and signs and symptoms of cardiac disorders including valvular heart disease, rheumatic fever, infective endocarditis and hyperlipidemia
3. List laboratory and diagnostic studies for the above cardiac disorders
4. Discuss treatments including non-pharmacologic and pharmacology therapy of the above cardiac disorders
5. Identify cardiac benign and malignant tumors

**ENT Review**

Learning objectives:

1. Review ear, nose and throat anatomy
2. Describe presentations and signs and symptoms of common ENT disorders
3. List laboratory and diagnostic studies for common ENT disorders
4. Discuss non-pharmacologic and pharmacology therapy of common ENT disorders
5. Identify ENT childhood and adult emergencies and when to refer the patient

**Psychiatry Review**

Learning objectives:

1. Review Psychiatric personality disorders
2. Describe presentations and signs and symptoms of common Psychiatric disorders including depression, bipolar, anxiety, psychoses and substance abuse
3. List laboratory and diagnostic studies for the above psychiatric disorders
4. Discuss non-pharmacologic and pharmacology therapy of the above psychiatric disorders
5. Identify and summarize eating disorders

**Orthopedic Review**

Learning objectives:

1. Review orthopedic anatomy and pathophysiology
2. Describe presentations and signs and symptoms of common orthopedic disorders
3. List laboratory and diagnostic studies for common orthopedic disorders
4. Discuss treatments including non-pharmacologic and pharmacology therapy to common orthopedic disorders
5. Identify orthopedic emergencies

**Rheumatology Review**

Learning objectives:

1. Describe presentations and signs and symptoms of common rheumatologic disorders
2. List laboratory and diagnostic studies for common rheumatologic disorders
3. Discuss treatments including non-pharmacologic and pharmacology therapy to common rheumatologic disorders
4. Summarize gout and pseudogout

**Neurology Review**

Learning objectives:

1. Review neurology anatomy and pathophysiology
2. Describe presentations and signs and symptoms of common neurologic disorders
3. List laboratory and diagnostic studies for common neurology disorders
4. Discuss treatments including non-pharmacologic and pharmacology therapy to common neurology disorders
5. Identify

**Endocrinology Review**

Learning objectives:

1. Review pituitary hormones
2. Describe presentations and signs and symptoms of thyroid, parathyroid, pancreas and adrenal disorders
3. List laboratory and diagnostic studies for the disorders of the thyroid, parathyroid, pancreas and adrenal glands
4. Discuss non-pharmacologic and pharmacology therapy of disorders of the thyroid, parathyroid, pancreas and adrenal glands
5. Summarize Metabolic Syndrome, Type I and Type II Diabetes

**Nephrology Review**

Learning objectives:

1. Review kidney anatomy and pathophysiology
2. Describe presentations and signs and symptoms of nephrology disorders including acute renal failure and chronic renal failure
3. List laboratory and diagnostic studies for common renal disorders
4. Discuss non-pharmacologic and pharmacology therapy of the above gastroenterology disorders
5. Identify medications that should be avoided renal failure

**Basic to Advanced Suturing Workshop**

Learning objectives:

1. Review and practice two handed suture tying
2. Demonstrate and practice one handed suture tying
3. Describe suture and needle selection
4. Perform basic and advanced superficial and deep wound closure techniques

**Cardiology III Review**

Learning objectives for this session:

1. Review prenatal and neonatal circulation
2. Describe presentations and signs and symptoms of cardiac disorders including congenital disorders, syncope and vascular diseases
3. List laboratory and diagnostic studies for the above cardiac and vascular conditions
4. Discuss non-pharmacologic and pharmacology therapy of the above cardiac and vascular conditions

**Hematology Review**

Learning objectives:

1. Review normal hematopoiesis
2. Describe presentations and signs and symptoms of common hematologic disorders including disorders of red blood cells, white blood cells, platelets
3. List laboratory and diagnostic studies for the above hematologic disorders
4. Discuss non-pharmacologic and pharmacology therapy of the above hematologic disorders
5. Summarize lymphomas and leukemias including AML, CML, ALL, CLL
6. Review common coagulopathies

**Women’s Health I Review**

Learning objectives:

1. Review Psychiatric personality disorders
2. Describe presentations and signs and symptoms of sexually transmitted infections, cervical disorders, uterine and ovarian disorders
3. List laboratory and diagnostic studies for the above gynecologic disorders
4. Discuss non-pharmacologic and pharmacology therapy of the above gynecologic disorders
5. Review carcinoma of the vagina, cervix, uterus and ovaries

**Women’s Health II Review**

Learning objectives:

1. Review benign and malignant breast disorders
2. Discuss the normal pregnancy clinical course
3. Describe common pregnancy complications
4. Summarize placenta previa, and placenta abruption
5. Discuss non-pharmacologic and pharmacology therapy in pregnancy

**Pediatrics**

Learning objectives:

1. Review normal developmental milestones
2. Describe presentations and signs and symptoms of common pediatric conditions in a review of systems approach
3. List laboratory and diagnostic studies for pediatric disorders
4. Discuss non-pharmacologic and pharmacology therapy in pediatric disorders
5. Summarize pediatric emergencies

**Dermatology**

Learning objectives:

1. Review normal skin anatomy
2. Describe presentations and signs and symptoms of common dermatologic disorders
3. List laboratory and diagnostic studies for common dermatologic disorders
4. Discuss non-pharmacologic and pharmacology therapy for dermatologic disorders
5. Summarize dermatologic infections

**Emergency Medicine Review**

Learning objectives:

1. Review acid base disorders
2. Describe presentations and signs and symptoms of commonly seen disorders in Emergency Medicine by a review of systems
3. List laboratory and diagnostic studies for conditions seen in the Emergency Room
4. Discuss non-pharmacologic and pharmacology therapy in ACLS

**Medical Jeopardy**

Learning objectives:

1. Review common cardiac and pulmonary disorders
2. Identify common medical triads
3. List frequently seen sexually transmitted diseases
4. Discuss other common medical disorders frequently seen

**Hemodynamics & Critical Care Workshop**

Learning objectives:

1. Review Cardiac output, cardiac index, afterload and preload
2. Discuss pulmonary artery catheter indications and complications
3. Summarize inotropic and vasopressor medications
4. Discuss Intra-Aortic Balloon Pump including clinical uses, contraindications and complications