Elective CP CC Exam Module Study Guide

Only look at the tables which correspond to the modules you registered to take.

CC CP – General Clinical Pathology I	
• BAL; acid fast organisms	• pediatric sputum; gram stain
• biological hazards; biosafety Level 3	• pharmacokinetics
• blood collection tubes	• platelet aggregation; arachidonic acid
• cardiopulmonary bypass; bleeding	• platelet alloimmunization
• cold agglutinin; automated counts	• quality control charts
• GVHD; irradiation of blood products	• schistocytes on blood smear
• hyperparathyroidism	• septic arthritis
• immunofixation; monoclonal gammopathy	• spurious thrombocytosis
• informed consent for transfusion	• synovial fluid crystals
• intracellular bacteria; leukocytes	• test volume vs cost
• Mycobacterium spp.; types of infections	• transfusion reaction work-up
• neonatal alloimmune thrombocytopenia	• true negatives
• nucleated RBCs, automated counts	• Warthin Starry stain

CC CP – General Clinical Pathology II	
• abnormal RBC morphology; Howell-Jolly bodies	• hemolyzed specimen; spurious lab results
• autologous blood testing	• infectious mononucleosis
• blood collection procedure; clotted tubing	• interval between blood donations
• blood donation; vasovagal reaction	• iron deficiency anemia
• blood donors; iron loss	• Joint Commission; patient identification
• centrifuged blood tube; layers of cells	• leukemia; CSF
• chromatography	• Levey-Jennings charts
• cold agglutinin disease	• MRSA; treatment
• CSF; oligoclonal bands	• old blood; neutrophil
• evaluation of donor iron stores	• point of care glucose; indications
• Friedewald formula	• proficiency testing; errors
• gas gangrene	• teardrop RBCs
• Giardia	

CC CP – Blood Banking/Transfusion Medicine I	
• ABO and Rh type substitutes	• IgM alloantibodies
• ADAMTS13; TTP	• irradiation of blood products
• allergic transfusion reactions; prevention	• Kidd alloantibodies
• anemia of prematurity; pathophysiology	• linkage disequilibrium
• CLL; autoantibodies	• lupus anticoagulants
• cryoprecipitate; clinical use	• organ transplantation; histocompatibility
• Donath Landsteiner hemolytic anemia	• plasma exchange; immunoglobulin removal
• donor deferral; malaria	• platelet transfusion indications
• donor testing; HCV	• RBC shelf life; additive solutions
• drug-induced immune hemolytic anemia	• RBCs transfused with hypotonic solutions
• fresh frozen plasma indications	• sickle cell disease; treatment
• hematopoietic progenitor cell transplant; ABO mismatch	• uremia
• hemolytic disease of the newborn; diagnostic tests	

Elective CP CC Exam Module Study Guide

Only look at the tables which correspond to the modules you registered to take.

CC CP – Blood Banking/Transfusion Medicine II	
• abbreviated crossmatch	• idiopathic thrombocytopenic purpura
• acute hemolytic transfusion reaction; signs & symptoms	• leukocyte reduced platelets
• alloantibodies; half-life	• long term effects of donation; iron
• coagulation factors; half-life	• neonatal alloimmune thrombocytopenia
• component use after seal is broken	• nonhemolytic transfusion reactions; diagnosis
• directed donor blood; irradiation	• platelet transfusion; out of group platelets
• disseminated intravascular coagulation	• platelet transfusions; dose calculation
• donor deferral; malaria	• prion diseases; transmission
• donor testing; incompatible unit	• rare blood types; management
• drug induced hemolytic anemia; mechanisms	• transfusion of blood products; post stem cell transplant
• grams of fibrinogen/bag of cryoprecipitate	• transfusion-related urticaria
• hemolytic disease of the newborn; exchange transfusion	• warfarin reversal prior to surgery
• hemolytic uremic syndrome vs TTP	

CC CP - Chemical Pathology	
• ANA; speckled pattern	• pesticide toxicity
• anion gap	• plasma ceruloplasmin
• ANCA	• preanalytic errors; EDTA specimen contamination
• autoimmune hepatitis; immunofluorescence	• preanalytic errors; hemolysis
• bisalbuminemia	• RBC thiopurine methyltransferase
• bone metastases; calcium, PTH	• renal disease; urine protein electrophoresis patterns
• connective tissue diseases; autoantibodies	• ROC curve
• CSF; oligoclonal bands	• sensitivity
• dexamethasone suppression test	• serum free light chains
• diabetes mellitus; monitoring	• serum protein abnormalities; beta-gamma bridging
• electrolyte disorders; inappropriate ADH	• urine opiate screen; false positives
• Hb electrophoresis interpretation	• whole blood alcohol; legal limit
• inherited disorders; disease and gene frequency; phenotype; prognosis	

Elective CP CC Exam Module Study Guide

Only look at the tables which correspond to the modules you registered to take.

CC CP – Hematology	
• acute leukemias; cytochemical stains	• iron deficiency anemia
• anemia of chronic disease	• megaloblastic anemia; abnormal RBC morphology
• bone marrow; nonhematopoietic cells	• mycosis fungoides and Sezary syndrome
• chronic lymphocytic leukemia	• paroxysmal nocturnal hemoglobinuria
• chronic myelogenous leukemia	• paroxysmal nocturnal hemoglobinuria; diagnosis
• Dohle bodies	• platelet satellitism
• erythroid precursors	• RBC agglutination; antibodies
• glucose-6-phosphate deficiency	• sideroblastic anemias; abnormal RBC morphology
• hemoglobinopathies; HPLC and electrophoresis	• T-cell leukemias/lymphomas
• hereditary elliptocytosis	• thalassemias
• hereditary spherocytosis	• TTP/HUS
• immune hemolytic anemia	• transient abnormal myelopoiesis

CC CP – Hemostasis and Thrombosis I	
• antiphospholipid antibody syndrome	• low molecular weight heparin
• antithrombin III deficiency	• melting curve analysis; prothrombin mutation
• coagulation factors in FFP	• platelet aggregation; aspirin
• disseminated intravascular coagulation; fibrin split products	• platelet storage pool disorder; platelet aggregation
• disseminated intravascular coagulation; lab diagnosis	• thrombophilic disorders; acquired
• factor inhibitors	• thrombosis and thrombophilia; lab diagnosis; warfarin
• factor VII deficiency	• TTP/HUS (edited image coming)
• factor XIII function	• TTP/HUS; abnormal RBC morphology
• Glanzmann thrombasthenia	• vitamin K deficiency
• glycoprotein IIb/IIIa	• von Willebrand disease
• INR calculation	• von Willebrand disease; multimer analysis
• liver disease	• warfarin reversal

Elective CP CC Exam Module Study Guide

Only look at the tables which correspond to the modules you registered to take.

CC CP – Hemostasis and Thrombosis II	
• anti-platelet antibodies; alloimmunization	• method comparisons; PT
• aspirin	• plasma cell myeloma and hemostasis
• clopidogrel resistance	• plasminogen activator inhibitor deficiency
• DDAVP	• platelet function testing; release reaction
• dysfibrinogenemia; therapy	• platelet lifespan
• elastometry patterns	• platelet reticulocyte count
• factor inhibitors	• platelet storage pool disorders
• Factor V Leiden PCR interpretation	• platelet transfusions; indications
• gray platelet syndrome	• primary thrombocytosis
• Hemophilia A carriers	• protein C; inheritance
• hemostasis tests; regulated analyte	• prothrombin G20210A methods and interpretation
• INR calculations	• surgical hemostasis
• lupus anticoagulant; lab diagnosis	• vitamin K deficiency vs. liver disease

CC CP – Microbiology I	
• Ascaris lumbricoides	• Neisseria spp.
• Babesia	• nematode egg
• bacterial arthritis	• Nocardia spp
• Entamoeba histolytica	• papillomaviruses
• erythema chronicum migrans	• Proteus; biochemicals
• GMS stain	• spirochetes
• group B streptococcus; biochemical reactions	• Staphylococcus spp.; key tests
• Hektoen enteric agar; isolates	• stool wet mount; nematode egg
• infectious diarrhea	• sulfur granule
• keratoconjunctivitis; Giemsa stain	• swarming organisms
• mycobacteria	• Warthin-Starry stain
• mycobacteria; colony appearance	• Whipple disease
• mycobacterium tuberculosis	

Elective CP CC Exam Module Study Guide

Only look at the tables which correspond to the modules you registered to take.

CC CP – Microbiology II	
• AIDS; lung infections	• oxidase reaction
• CAMP test	• pandemic infections
• cutaneous fungal infections; lactophenol cotton blue	• photochromogenic mycobacteria
• dimorphic fungi; GMS	• Plasmodium spp.
• hepatitis B serology	• Plasmodium spp.; cerebral malaria
• HIV testing	• Pox and Parapox viruses
• infections due to animal bites	• Schistosoma spp.
• intracellular bacteria; leukocytes	• sputum Gram stain; pneumonia
• mycobacteria; acid fast smear	• sulfur granule
• mycobacteria; bone marrow biopsy	• urinary tract infections
• nematode egg	• viral inclusions
• novobiocin test	• yeast and yeast-like fungi; subculture growth & morphology

CC CP – Molecular Pathology	
• acute HIV-1 diagnosis	• MRSA
• analyte specific reagents	• mycobacteria; rifampin resistance
• bacterial culture/sequencing electropherogram	• next generation sequencing in clinical diagnostics
• colon carcinoma microsatellite instability	• Parvovirus B19
• decoy cell	• PCR optimization
• degraded DNA	• PCR; pulmonary TB; sputum testing
• drug resistance in herpes	• pedigree; mitochondrial inheritance
• environmental contamination and surveillance	• pedigree; patterns of inheritance
• FDA regs	• ROC curve
• FISH; RARA	• sequencing assay; mutation variants
• forensic applications; mitochondrial DNA	• TaqMan amplification plot
• hemophilia	• TaqMan real time PCR; BCR/ABL
• HIV viral load	