



2018  
Pathology  
Resident In-Service Examination  
Item Descriptors and References

**ANATOMIC PATHOLOGY**

**CYTOPATHOLOGY**

- 1) Corpora amylacea
- 2) Cerebrospinal fluid plasma cells; multiple sclerosis
- 3) Urine; diagnose polyomavirus
- 4) Papillary thyroid carcinoma; common genetic lesion
- 5) Identification; squamous cell carcinoma
- 6) Cervicovaginal smear; diagnose low grade squamous intraepithelial lesion
- 7) Recognition of atrophy in Papanicolaou smears
- 8) Identification of radiation changes in Papanicolaou smears
- 9) Morphologic features of conventional renal cell carcinoma
- 10) Medullary carcinoma of the thyroid
- 11) Pneumocystis cast
- 12) Risk factors for Warthin tumor
- 13) Mesothelial windows
- 14) Identification of fecal contamination
- 15) Benign mesothelial cells
- 16) Left parotid mass; identify adenoid cystic carcinoma
- 17) Pancreatic endocrine neoplasm (PEN)
- 18) Low-grade squamous intraepithelial lesion (LSIL)
- 19) Neck nodule; diagnose epidermal inclusion cyst from Papanicolaou stain
- 20) Reserve cells, ciliated columnar cells and pulmonary alveolar macrophages
- 21) Carcinoid; diffuse idiopathic pulmonary neuroendocrine cell hyperplasia (DIPNECH)
- 22) Diagnose high grade urothelial cell carcinoma; urine
- 23) Solid pseudopapillary tumor
- 24) Endometrial cells that appear benign
- 25) Esophageal adenocarcinoma
- 26) Complications of a fine-needle aspiration in the thorax
- 27) Myelolipoma; diagnose from adrenal gland fine-needle aspirate
- 28) Recognition of malignant rhabdoid tumors
- 29) Cervicovaginal smear; classify as benign reactive/repairative change
- 30) Pelvic washing; interpret adenocarcinoma of the ovary
- 31) High-grade squamous intraepithelial lesion (HSIL); follow-up
- 32) Lymphoma in an effusion
- 33) Recognize polyomavirus
- 34) Intraductal papilloma from the breast; aspirate
- 35) Incidental brain parenchyma
- 36) Thyroid; recognize tracheal contamination
- 37) Cytomorphology of pleomorphic adenoma
- 38) Gastrointestinal stromal tumor (GIST)
- 39) *Trichomonas vaginalis*; identification from a cervical smear
- 40) Liquid based preparation; adequacy based on cellularity

**AUTOPSY/FORENSIC PATHOLOGY**

- 41) Potency of fentanyl analogs; carfentanil
- 42) Vehicular intrusion; blunt trauma in motor vehicle collisions
- 43) Recognize gunshot entrance wounds of the cranium
- 44) Recognize atrial septal defect-secundum type
- 45) Identification of patent ductus arteriosus
- 46) Manner of death; determination following trauma
- 47) Recognize cause of death related to calcific aortic stenosis due to congenitally bicuspid aortic valve
- 48) Postmortem heat-related epidural hemorrhage
- 49) Recognize insect predation; produce postmortem abrasions

**AUTOPSY/FORENSIC PATHOLOGY (cont'd)**

- 50) Cause of death statement; death certificate
- 51) Recognize hesitation marks/wounds
- 52) Characteristics of contact range gunshot wounds on skull
- 53) Detection of 6-MAM; heroin use
- 54) Positional asphyxia
- 55) CPAP (positive airway pressure); cause of death
- 56) Identify cardiac sarcoidosis
- 57) Decomposition; pattern in blood electrolytes
- 58) Vitreous fluid; hyperglycemia
- 59) Tache noire – postmortem change; identification and significance
- 60) Scene investigation in infant death
- 61) Identify cupping
- 62) Identify serrated edge knife injuries
- 63) Lung; changes due to lobar pneumonia
- 64) Identify; congenital Mongolian spot
- 65) Characteristics of Tardieu spots
- 66) Identify cerebral contusion from fixed brain
- 67) Pulmonary foreign body granulomas in intravenous drug users
- 68) Final stages of hypothermia; paradoxical undressing
- 69) Opioid overdose deaths; foam cone
- 70) Roles of the National Transportation Safety Board (NTSB) and The Federal Aviation Administration (FAA) in airline fatalities
- 71) Identify epidural hemorrhage
- 72) Early post mortem period; urea and creatinine concentrations
- 73) **Deleted**
- 74) Myocardial free-wall rupture; 3-7 days post myocardial infarction
- 75) Define adipocere
- 76) Recognize normal "brown fat" in infant

**SURGICAL PATHOLOGY**

- 77) Gastric-type endocervical adenocarcinoma features
- 78) Histologic appearance and clinical features of collagenous spherulosis
- 79) Schwann cell hamartoma
- 80) Acetaminophen overdose; hepatotoxicity
- 81) Identify chondroblastoma
- 82) Fabry disease
- 83) Low-grade appendiceal mucinous neoplasm
- 84) Clear cell carcinoma of endometrium
- 85) Findings in amebiasis
- 86) Clinicopathologic features of granular cell tumor
- 87) Identification of toxoplasma
- 88) Vacuolar interface change; lupus erythematosus, erythema multiforme
- 89) Focal segmental glomerulosclerosis; podocin
- 90) Characteristics of HPV-related squamous cell carcinoma
- 91) Juxtaglomerular cell tumor of the kidney; characteristics
- 92) Stromal lesion of the breast and CD34 staining
- 93) Immunoprofile of invasive micropapillary urothelial carcinoma
- 94) Recognize esophagitis dissecans superficialis histology in appropriate clinical context
- 95) Characteristics of hyperparathyroidism
- 96) Diagnose cryptosporidiosis; colon biopsy
- 97) Acute atherosclerosis/fibrinoid necrosis in placenta
- 98) AJCC staging of lung cancer
- 99) Micromedullary carcinoma; identification from thyroid nodule
- 100) Rheumatoid nodule; identify
- 101) Immunohistochemical profile of mammary analogue secretory carcinoma
- 102) Prognostic factor for invasive breast carcinoma; axillary lymph node

**SURGICAL PATHOLOGY (cont'd)**

- 103) Patterns of placental infections
- 104) Liver mass; identification of focal nodular hyperplasia
- 105) HER2 by immunohistochemical staining
- 106) Recognition of normal colonic mucosa
- 107) Characteristics of allergic fungal rhinosinusitis
- 108) Cytomegalovirus; cells infected
- 109) Meningioma; epithelial membrane antigen immunoreactivity
- 110) Characteristics of yolk sac tumor
- 111) Myelin stain
- 112) Adrenal nodule; adrenal cortical adenoma
- 113) Intracytoplasmic Negri and Lyssa bodies; rabies encephalitis
- 114) Microsatellite instability in colorectal adenocarcinoma
- 115) Nonspecific interstitial pneumonia; characteristics
- 116) Recognition of autoimmune pancreatitis
- 117) Characteristics of acquired cystic disease; renal cell carcinoma
- 118) Recognize Wilms tumor and distinguish it from other primitive pediatric neoplasms
- 119) Gross appearance; hydatid cyst
- 120) Ductal carcinoma in situ features and risk of recurrence
- 121) Features of tall cell variant of papillary thyroid carcinoma
- 122) Significance and diagnostic criteria for urothelial carcinoma in situ
- 123) Features of basal-like breast cancers
- 124) Recognition of granuloma annulare
- 125) Metastatic carcinoma; myelophthitic anemia
- 126) Eosinophilic neuronal degeneration
- 127) Staining C4d in kidney peritubular capillaries; acute humoral rejection
- 128) Immunohistochemistry in olfactory neuroblastoma
- 129) Definitions and significance of prostate cancer grade groups
- 130) Association of SDHB and paraganglioma
- 131) Mucinous cystic neoplasm with ovarian like stroma
- 132) Identification of eosinophilic esophagitis
- 133) Lymphangioleiomyomatosis associations
- 134) Adult granulosa cell tumor
- 135) Metastatic patterns of nasopharyngeal carcinoma
- 136) CPT billing codes in surgical pathology
- 137) Immunohistochemical profile of primary lung adenocarcinoma
- 138) Characteristics of complete mole
- 139) Identification of pancreatic serous cystadenoma
- 140) Kaposi sarcoma with HHV-8 LANA immunostain positivity
- 141) Ependymoma; identification
- 142) Synovial sarcoma; cytogenetics
- 143) Common causes of atrophic gastritis
- 144) Characteristics of MEN1
- 145) Perineum; cytologic atypia in nevi, special site nevi
- 146) Diagnosis of malignant phyllodes tumor

**CLINICAL PATHOLOGY**

**CLINICAL CHEMISTRY**

- 147) Negative predictive value; calculation
- 148) History of hemoptysis and hematuria; anti-glomerular basement membrane antibody; Goodpasture syndrome
- 149) Tumor marker; prostate specific antigen
- 150) Major intracellular cation
- 151) Hemolytic anemia; bilirubin and urinalysis findings
- 152) Acid-base balance, high total bicarbonate

**CLINICAL CHEMISTRY (cont'd)**

- 153) Folate testing
- 154) Fecal occult blood testing; methodologies and associated false positives
- 155) Candidate biomarkers should have a long half-life
- 156) Negative acute phase reactant; transferrin
- 157) **Deleted**
- 158) Pheochromocytoma; diagnostic tests; plasma free metanephrines
- 159) Methanol ingestion; serum osmol gap
- 160) Protein content in lipid fractions
- 161) Marker for pancreatic carcinoma; CA19-9
- 162) Methanol; toxic metabolite
- 163) Glomerular filtration rate; age, sex, height, serum creatinine
- 164) Ethyl alcohol and cocaine; cocaethylene
- 165) Autoantibodies and immunoassays
- 166) IgD and IgE myeloma
- 167) Diagnosis of diabetes
- 168) Calculated LDL
- 169) Determination of reference intervals
- 170) Calculated positive predictive value
- 171) Understand volume of distribution and half life
- 172) Testing for risk of Down syndrome
- 173) Celiac disease diagnosis; test most sensitive and specific
- 174) Elevated urinary telopeptides and deoxypyridinoline; osteoporosis and Padgett disease
- 175) Alpha-1 hydroxylation; kidneys
- 176) False positive pregnancy tests
- 177) Anti-Jo-1; inflammatory myositis
- 178) Critical value importance in clinical laboratory
- 179) Sulfonylurea; type II diabetes therapy; insulin testing
- 180) Allergic bronchopulmonary mycosis; total IgE and IgE against *Aspergillus*
- 181) Acute porphyria; diagnostic testing
- 182) **Deleted**
- 183) Transthyretin; nutritional status
- 184) Positive interferences in sandwich immunoassays; circulating human anti-mouse antibodies
- 185) Phenytoin therapeutic drug monitoring
- 186) Compensated respiratory acidosis; increased serum bicarbonate

**HEMATOLOGY**

- 187) B-lymphoblastic leukemia; immunophenotype and morphology
- 188) Resistant to the effects of activated protein C; abnormality of factor V
- 189) Prognosis in chronic lymphocytic leukemia
- 190) Mechanism of target cell formation
- 191) Vitamin K deficiency versus liver disease; Factor V
- 192) Metastatic carcinoma; appearance in effusion
- 193) Red blood cell agglutination; effect on automated cell count
- 194) Testing for glucose-6-phosphate dehydrogenase (G6PD) deficiency
- 195) Automated hematology analyzers; instrument flags
- 196) Warm auto-immune hemolytic anemia
- 197) Ringed sideroblasts; iron stain
- 198) Acute promyelocytic leukemia; morphology and genetics
- 199) Inhibitor of the ADAMTS 13 enzyme; clinical characteristics of thrombotic thrombocytopenic purpura (TTP)
- 200) Histoplasmosis; bone marrow morphologic features
- 201) Flow cytometry; lymphocyte light scatter techniques
- 202) Red cell morphology; thermal injury
- 203) Aspirin; effect on platelet aggregation
- 204) Morphologic features of parvovirus infection
- 205) Paroxysmal nocturnal hemoglobinuria; fluorescein-labeled proaerolysin (FLAER)

**HEMATOLOGY (cont'd)**

- 206) Initial choice of anticoagulation in heparin-induced thrombocytopenia
- 207) Molecular basis for inherited Pelger-Huët abnormality
- 208) Laboratory diagnosis of anemia; beta thalassemia minor
- 209) Laboratory findings; hemolytic anemia
- 210) Automated hematology analyzers; nucleated red blood cells
- 211) Gaucher disease; enzyme deficiency
- 212) Automated cell counters; falsely high platelet count
- 213) Chronic myelomonocytic leukemia; absolute monocytosis, dysplasia, blasts
- 214) Transient abnormal myelopoiesis, molecular findings
- 215) Evans syndrome; clinical characteristics
- 216) Chronic granulomatous disease
- 217) Morphology and immunophenotype of acute myeloid leukemia with mutated *NPM1*
- 218) Factor XII deficiency; association with bleeding
- 219) Hemoglobin S/C disease; clinical and morphologic findings
- 220) Metastatic adenocarcinoma; bone marrow
- 221) Red blood cell inclusions; associated precipitated substance
- 222) Diagnosis of antiphospholipid syndrome; antiphospholipid antibodies over time
- 223) Effects of anticoagulant therapy on prothrombin time (PT) and activated partial thromboplastin time (aPTT)
- 224) Dysplastic megakaryocytes; identification
- 225) Anticoagulants that prolong thrombin time
- 226) Morphologic features of cystine crystals

**MICROBIOLOGY**

- 227) Gram stain; reagent effects
- 228) Identification of vector of tick-borne relapsing fever in the United States
- 229) Extended spectrum beta-lactamase; *Klebsiella*
- 230) *Candida albicans*; positive germ tube
- 231) *Staphylococcus aureus*; D test interpretation
- 232) Members of the *Mycobacterium tuberculosis* complex
- 233) Serological diagnosis of chronic hepatitis B infection
- 234) Intrinsic resistance in *Candida* species
- 235) Identification of helminth eggs and knowledge of helminth life cycles
- 236) *Legionella* culture method
- 237) Microscopic appearance of organisms associated with phaeohyphomycosis
- 238) Diagnosis of parvovirus infection from bone marrow
- 239) Influenza A vaccine subtypes
- 240) *Nocardia* species
- 241) Nontreponemal test for diagnosis of syphilis
- 242) Testing for human papillomavirus (HPV) in cervical cancer screening
- 243) Morphology of Charcot-Leyden crystal in a clinical specimen
- 244) *Staphylococcus saprophyticus* in urine; growth characteristics
- 245) Microscopic identification of *Pneumocystis*
- 246) *Plasmodium vivax*; treatment of the hypnozoite stage
- 247) *Salmonella* infection
- 248) Intrinsic resistance to vancomycin
- 249) *Strongyloides* larva; clinical symptoms and identification
- 250) Maxillary sinus infection; *Rhizopus*
- 251) Stains for acid fast bacilli
- 252) Virulence factors of *Streptococcus pneumoniae*
- 253) Acceptance criteria for sputum cultures
- 254) *Fusobacterium* in Lemierre's syndrome
- 255) *Mycobacterium marinum*; clinical presentation and growth characteristics; photochromogens
- 256) Identify *Proteus mirabilis*; growth characteristics on agar plate
- 257) Anisakiasis; clinical characteristics and morphology
- 258) *Aspergillus* species microscopic and macroscopic morphology
- 259) Deleted

### **MICROBIOLOGY (cont'd)**

- 260) Identification of helminth eggs and knowledge of intestinal helminth complications
- 261) Infections requiring airborne isolation precautions
- 262) Nitrofurantoin; uncomplicated cystitis
- 263) Antibody to hepatitis C virus; HCV RNA test
- 264) *Mycobacterium fortuitum*; clinical and microscopic characteristics
- 265) Recognition of morphologic forms of *Coccidioides immitis*/*C. posadasii* on fluorescent stain
- 266) Characteristics of *Erysipelothrix rhusiopathiae*

### **TRANSFUSION MEDICINE**

- 267) Appropriate blood products modifications for stem cell transplant
- 268) Postnatal treatment of fetal and neonatal alloimmune thrombocytopenia (FNAIT)
- 269) Kinetics of plasma volume exchange and residual plasma components after exchange
- 270) Transfusion reaction; transfusion-associated graft vs. host disease
- 271) Bacterial contamination of platelets
- 272) Relationship between one-hour post transfusion count and platelet refractoriness
- 273) Non-immune causes for hemolysis during transfusion
- 274) Dosage effect of antibodies; delayed hemolytic transfusion reaction (DHTR)
- 275) Albumin characteristics and function
- 276) Calculation of plasma volume
- 277) Massive transfusion protocol guidelines
- 278) Appropriate test ordering and blood product replacement for coagulopathy
- 279) Transfusion related acute lung injury (TRALI) transfusion reaction work-up
- 280) Measles vaccine deferral
- 281) Antineutrophil antibodies; transfusion-related acute lung injury
- 282) Additive solution Red Blood Cells; storage and preparation
- 283) The definition of a leukoreduced blood product
- 284) Passenger lymphocyte syndrome; causes of hemolysis in transplant settings, antibody types
- 285) Intraoperative blood recovery
- 286) Pathophysiology of an aplastic crisis in hemoglobin SS disease
- 287) HLA system and transfusion; transplantation
- 288) Thrombocytopenia and microangiopathy
- 289) Arterial puncture during collection of whole blood
- 290) Hematopoietic progenitor cell collection yield
- 291) HIV lookback protocol
- 292) Platelet transfusion dose increment
- 293) Volunteer and directed blood donor criteria; exceptions
- 294) Foundation for the Accreditation of Cellular Therapy (FACT) purview
- 295) HIV infection; lupus anticoagulant
- 296) Cryoprecipitate; indications for transfusion
- 297) Appropriate therapy for FXII deficiency; a non-coagulopathic condition
- 298) ABO incompatible hematopoietic progenitor cell (HPC) transplants
- 299) Characteristics of anti-E and anti-K
- 300) Rh haplotypes
- 301) Autoantibody; antibody panel presentation
- 302) Interpretation of gel-based ABO and Rh typing
- 303) Significance of antibody titers in pregnancy
- 304) Haemovigilance program; transfusion related adverse events reporting
- 305) Irradiated Red Blood Cell unit; shelf life
- 306) Deferral interval after 2-unit red cell donation by apheresis

**SPECIAL TOPICS**

**HEMATOPATHOLOGY**

- 307) Follicular dendritic cell proliferation; angioimmunoblastic T-cell lymphoma
- 308) Changes in the bone marrow trabecula in patients with renal failure
- 309) Diagnose; acute monocytic leukemia
- 310) Nasal T/NK lymphoma; necrosis
- 311) Clinical, morphologic, and immunophenotypic findings in breast implant-associated anaplastic large-cell lymphoma
- 312) Origin of Reed-Sternberg cells
- 313) Mast cell disease; non-mast cell hematopoietic malignancy
- 314) Distinction between plasma cell myeloma and monoclonal gammopathy of undetermined significance
- 315) Clinicopathologic features of Rosai Dorfman Disease
- 316) Mantle cell lymphoma; immunophenotype
- 317) Sarcoidosis
- 318) Nodular lymphocyte, predominant Hodgkin lymphoma; identification
- 319) Bone marrow involvement by follicular lymphoma
- 320) Morphology and phenotype for the differential of hairy cell leukemia
- 321) Cytologic findings in follicular lymphoma

**LABORATORY ADMINISTRATION**

- 322) Blood products; large expense item
- 323) Prohibition of clinical laboratory self-referral
- 324) Principles of calibration
- 325) Proficiency testing
- 326) CLIA storage requirements for slides
- 327) Logical observation identifiers, names and codes (LOINC®); purpose
- 328) College of American Pathologists Phase II deficiency
- 329) Productivity; measure of outputs per input resources
- 330) Proficiency testing treated like patient sample
- 331) Obtain laboratory analyzer; reagent rental agreement
- 332) Types of indirect costs
- 333) Root cause analysis; retrospective process
- 334) Care and payment models
- 335) Accounts receivables
- 336) Know data required for regressive analysis for method comparison
- 337) CLIA certificate of waiver
- 338) Instrument precision; coefficient of variation
- 339) **Deleted**

**MOLECULAR PATHOLOGY**

- 340) DNA measurements
- 341) Communication of patient medical results
- 342) Cytogenomic array interpretation
- 343) Genomic databases
- 344) Define sequencing coverage
- 345) Interpretation of *EGFR* molecular testing in non-small cell lung adenocarcinoma
- 346) Mutation confirmation approaches in next-generation sequencing
- 347) DNA double helix bonds; hydrogen bonds
- 348) Isothermal amplification for transcription mediated amplification and nucleic acid sequence based amplification
- 349) New prenatal testing; fetal circulating DNA in the mother's blood
- 350) Fanconi's anemia; chromosomal instability
- 351) Sensitive detection of common oncogene mutations
- 352) Dominant gene expressed in hetero and homozygous states
- 353) Genome translated into protein; exon

**MOLECULAR PATHOLOGY (cont'd)**

- 354) Exome sequencing; mutations in the coding regions of genes
- 355) Interpretation of B-cell receptor gene rearrangement
- 356) HLA loci tested for allogeneic transplantation
- 357) Prognostic factors in chronic myelogenous leukemia
- 358) Cystic fibrosis associated with absent vas deferens
- 359) DNA identity testing; short tandem repeats (STR)
- 360) Karyotype; interpretation
- 361) Microsatellite stability in colon cancer
- 362) Heavy chain CDR3 length; V, D, and J segments

**ANATOMIC PATHOLOGY**

**CYTOPATHOLOGY**

- 1) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:215-219.
- 2) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:506.
- 3) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:35.
- 4) Nikiforov YE. Molecular diagnostics of thyroid tumors. *Arch Pathol Lab Med*. 2011;135(5):569-577.
- 5) Nayar R, Wilbur DC. *The Bethesda System for Reporting Cervical Cytology*. 3rd ed. Switzerland: Springer International Publishing; 2015:177-192.
- 6) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:133-139.
- 7) Nayar R, Wilbur DC. *The Bethesda System for Reporting Cervical Cytology*. 3rd ed. Switzerland: Springer International Publishing; 2015:49-54.
- 8) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:163.
- 9) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:1356-1359.
- 10) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012: 910-915.
- 11) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:226-227.
- 12) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:798-801.
- 13) Gray W, Kocjan G, eds. *Diagnostic Cytopathology*. 3rd ed. New York, NY: Churchill Livingstone, Elsevier; 2010:118.
- 14) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:124.
- 15) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:274-279.  
Sheffield BS, Hwang HC, Lee AF, Thompson K, Rodriguez S, Tse CH, Gown AM, Churg A. BAP1 immunohistochemistry and p16 FISH to separate benign from malignant mesothelial proliferations. *Am J Surg Pathol*. 2015 Jul;39(7):977-982.
- 16) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:802-804.
- 17) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:1303-1325.
- 18) Massad LS, MD, Einstein MH, Huh WK, MD, et al, eds for the 2012 ASCCP Consensus Guidelines Conference. 2012 Updated Consensus Guidelines for the Management of Abnormal Cervical Cancer Screening Tests and Cancer Precursors. *J Lower Genital Tract Disease*. 2013;17(5):S1-S27.
- 19) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:564.
- 20) Kamata T, Yoshida A, Kosuge T, Watanabe S, Asamura H, Tsuta K. Ciliated muconodular papillary tumors of the lung: a clinicopathologic analysis of 10 cases. *Am J Surg Pathol*. 2015 Jun;39(6):753-760.  
DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:208-212.
- 21) Rossi G, Cavazza A, Spagnolo P, Sverzellati N, Longo L, et al, eds. Diffuse idiopathic pulmonary neuroendocrine cell hyperplasia syndrome. *Eur Respir J*. 2016 Jun;47(6):1829-1841.  
Marchevsky AM, Walts AE. Diffuse idiopathic pulmonary neuroendocrine cell hyperplasia (DIPNECH). *Semin Diagn Pathol*. 2015 Nov;32(6):438-444.  
DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:1189-1192.
- 22) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:460-476.
- 23) Bean SM, Baker A, Eloubeidi M, Eltoun I, Jhala N, Crowe R, Jhala D, Chhieng DC. Endoscopic ultrasound-guided fine-needle aspiration of intrathoracic and intra-abdominal spindle cell and mesenchymal lesions. *Cancer Cytopathol*. 2011 Feb 25;119(1):37-48.  
Kubota Y, Kawakami H, Natsuzaka M, Kawakubo K, Marukawa K, et al eds. CTNNB1 mutational analysis of solid-pseudopapillary neoplasms of the pancreas using endoscopic ultrasound-guided fine-needle aspiration and next-generation deep sequencing. *J Gastroenterol*. 2015 Feb;50(2):203-210.
- 24) Nayar R, Wilbur DC. *The Bethesda System for Reporting Cervical Cytology*. 3rd ed. Switzerland: Springer International Publishing; 2015:91-102.
- 25) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:388-392.
- 26) Boskovic T, Stanic J, Pena-Karan S, Zarogoulidis P, et al. Pneumothorax after transthoracic needle biopsy of lung lesions under CT guidance. *J Thorac Dis*. 2014 Mar;6 Suppl 1:S99-S107.
- 27) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:1388.
- 28) Hoot AC, Russo P, Judkins AR, Perlman EJ, Biegel JA. Immunohistochemical analysis of hSNF5/INI1 distinguishes renal and extra-renal malignant rhabdoid tumors from other pediatric soft tissue tumors. *Am J Surg Pathol*. 2004 Nov;28(11):1485-1491.
- 29) Nayar R, Wilbur DC. *The Bethesda System for Reporting Cervical Cytology*. 3rd ed. Switzerland: Springer International Publishing; 2015:29-90.

**Item References**

**CYTOPATHOLOGY (cont'd)**

- 30) Nayar R, Wilbur DC. *The Bethesda System for Reporting Cervical Cytology*. 3rd ed. Switzerland: Springer International Publishing; 2015:242-258.
- 31) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:135-192.
- 32) Waisberg J, Anderi ADV, Cardoso PAS, Borducchi JHM, Germini DE, Franco MIF, Vasconcellos C. Extensive colorectal lymphomatous polyposis complicated by acute intestinal obstruction: a case report. *J Med Case Rep*. 2017 Jul 13;11(1):190. DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:303-309.
- 33) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:35.
- 34) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:1100-1102.
- 35) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:498-500.
- 36) DeMay RM. *The Art and Science of Cytopathology*. Chicago, IL: ASCP Press; 2012:841-942.
- 37) Faquin WC, Powers CN. *Salivary Gland Cytopathology*. New York, NY: Springer; 2008:85-96.
- 38) Miettinen M1, Wang ZF, Sarlomo-Rikala M, Osuch C, Rutkowski P, Lasota J. Succinate dehydrogenase-deficient GISTs: a clinicopathologic, immunohistochemical, and molecular genetic study of 66 gastric GISTs with predilection to young age. *Am J Surg Pathol*. 2011 Nov;35(11):1712-1721.  
Bean SM, Baker A, Eloubeidi M, Eltoun I, Jhala N, Crowe R, Jhala D, Chheng DC. Endoscopic ultrasound-guided fine-needle aspiration of intrathoracic and intra-abdominal spindle cell and mesenchymal lesions. *Cancer Cytopathol*. 2011 Feb 25;119(1):37-48.  
Lasota J, Miettinen M. Clinical significance of oncogenic KIT and PDGFRA mutations in gastrointestinal stromal tumours. *Histopathology*. 2008 Sep;53(3):245-266.
- 39) Nayar R, Wilbur DC. *The Bethesda System for Reporting Cervical Cytology*. 3rd ed. Switzerland: Springer International Publishing; 2015:74-77.
- 40) Nayar R, Wilbur DC. *The Bethesda System for Reporting Cervical Cytology*. 3rd ed. Switzerland: Springer International Publishing; 2015:1-28.

**AUTOPSY/FORENSIC PATHOLOGY**

- 41) <https://pubchem.ncbi.nlm.nih.gov/compound/carfentanil>. Accessed October 30, 2017.
- 42) Saukko P, Knight B. *Knight's Forensic Pathology*. 4th ed. Boca Raton, FL: CRC Press; 2016:278-279.
- 43) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield IL: Charles C Thomas Publishing; 2006:676.
- 44) Schoen FJ, Mitchell RN. The Heart. In: Kumar V, Abbas AK, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease*. 8th ed. Philadelphia, PA: Saunders Elsevier; 2010:541.
- 45) Kumar V, Abbas AK, Fausto N, eds. *Robbins and Cotran Pathologic Basis of Disease*. 7<sup>th</sup> ed. Philadelphia, PA: Elsevier Saunders; 2005:564-566.
- 46) Dolinak D, Matshes E, Lew EO. *Forensic Pathology: Principles and Practice*. Burlington, MA: Elsevier Academic Press; 2005:665
- 47) Schoen FJ, Mitchell RN. The Heart. In: Kumar V, Abbas AK, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease*. 8th ed. Philadelphia, PA, Saunders Elsevier; 2010:561-563, 561-563.
- 48) DiMaio VJM, DiMaio D. *Forensic Pathology*. 2nd ed. Boca Raton, FL: CRC Press; 2001:374.
- 49) DiMaio VJM, DiMaio D. *Forensic Pathology*. 2nd ed. Boca Raton, FL: CRC Press; 2001:94, 96.
- 50) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield IL: Charles C Thomas Publishing; 2006:439-440.
- 51) DiMaio VJM, DiMaio D. *Forensic Pathology*. 2nd ed. Boca Raton, FL: CRC Press; 2001:214.
- 52) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield IL: Charles C Thomas Publishing; 2006:680.
- 53) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield IL: Charles C Thomas Publishing; 2006:1203.
- 54) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield IL: Charles C Thomas Publishing; 2006:827-830.
- 55) <https://www.nhlbi.nih.gov/health/health-topics/topics/cpap>. Accessed October 30, 2017.
- 56) Bargaje A, Yerger J. *Cardiac Sarcoid. Forensic Check Sample FP-05-10*. 2005, FP-05-10. Chicago, IL: ASCP Press; 2005:311.
- 57) Coe JI. Postmortem chemistry update. *Am J Forensic Med Pathol*. 1993;14.
- 58) Finkbeiner W, Ursell P, Davis R. *Autopsy Pathology: A Manual and Atlas*. New York, NY: Churchill Livingstone; 2004:127.

**Item References**

**AUTOPSY/FORENSIC PATHOLOGY (cont'd)**

- 59) Froede RC, ed. *Handbook of Forensic Pathology*. 2nd ed. Northfield, IL: College of American Pathologists; 2003:79-88.
- 60) Dolinak D, Matshes E, Lew EO. *Forensic Pathology: Principles and Practice*. Burlington, MA: Elsevier Academic Press; 2005:341-342.
- 61) Coining, cupping are home remedies used by some Asian families. News wire article from: Orange County Register (Santa Ana, CA) November 13, 2002. [https://cchp.ucsf.edu/sites/cchp.ucsf.edu/files/Coining\\_En0210.pdf](https://cchp.ucsf.edu/sites/cchp.ucsf.edu/files/Coining_En0210.pdf). Accessed October 30, 2017.
- 62) Prahlow JA. Sharp force injuries. In: Froede RC, ed. *Handbook of Forensic Pathology*. 2nd ed. Northfield, IL: College of American Pathologists; 2003:159-173.
- 63) Kumar V, Abbas AK, Fausto N. *Robbins and Cotran Pathologic Basis of Disease*. 7th ed. Philadelphia, PA: Elsevier Saunders; 2005:749-750.
- 64) Dolinak D, Matshes E, Lew EO. *Forensic Pathology: Principles and Practice*. Burlington, MA: Elsevier Academic Press; 2005:370.
- 65) <http://www.pathologyoutlines.com/topic/forensicspostmortem.html>. Accessed October 30, 2017.
- 66) Froede RC, ed. *Handbook of Forensic Pathology*. 2nd ed. Northfield, IL: College of American Pathologists; 2003:147-158.
- 67) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield, IL: Charles C Thomas Publishing; 2006:1119-1121.
- 68) Froede RC, ed. *Handbook of Forensic Pathology*. 2nd ed. Chicago, IL: College of American Pathologists; 2003:225-230.
- 69) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield, IL: Charles C Thomas Publishing; 2006:1193.
- 70) Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield, IL: Charles C Thomas Publishing; 2006:969.
- 71) Froede RC, ed. *Handbook of Forensic Pathology*. 2nd ed. Northfield, IL: College of American Pathologists; 2003:147-158.
- 72) Sturner W. Chemical Considerations. In: Spitz WU, Spitz DJ, et al. *Spitz and Fisher's Medicolegal Investigation of Death*. 4th ed. Springfield, IL: Charles C Thomas; 2006:131.
- 73) **Deleted**
- 74) Kumar V, Abbas AK, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease*. 8th ed. Philadelphia, PA: Saunders Elsevier; 2010:550-557.
- 75) Froede RC, ed. *Handbook of Forensic Pathology*. 2nd ed. Northfield, IL: College of American Pathologists; 2003:79-88.
- 76) Brooks JSJ, Perosio PM. Adipose Tissue. In: Mills SE, ed. *Histology for Pathologists*. 3rd ed. Philadelphia, PA; Lippincott Williams & Wilkins; 2007:172-173.

**SURGICAL PATHOLOGY**

- 77) Kurman RJ, Carcangiu ML, Herrington CS, et al, eds. *World Health Organization Classification of Tumours of the Female Reproductive Organs*. Lyon, France: IARC; 2014:185-186.
- 78) Rosen PP. *Rosen's Breast Pathology*. 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2008:130-132.
- 79) Klair JS et al. Mucosal Schwann cell hamartoma: just benign or more? *Int J Colorectal Dis*. 2014;29:1597-1598.  
Rittershaus AC, et al. Benign gastrointestinal mesenchymal BUMPS: a brief review of some spindle cell polyps with published names. *Arch Pathol Lab Med*. 2011;135(10):1311-1319.
- 80) Larson AM. Acetaminophen hepatotoxicity. *Clin Liver Dis*. 2007;11(3):525-548.
- 81) Dorfman HD, Czerniak B. *Bone Tumors*. St Louis, MO: Mosby; 1998:296.
- 82) D'Agati VD, Jennette JC, Silva FG. *Non-Neoplastic Kidney Diseases*. Washington, DC: ARP Press; 2005:90-95.
- 83) Odze RD, Goldblum JR. *Odze and Goldblum Surgical Pathology of the GI Tract, Liver, Biliary Tract, and Pancreas*. 3rd ed. Philadelphia, PA: Elsevier Saunders; 2015:782-785.
- 84) Kurman RJ, Carcangiu ML, Herrington CS, et al, eds. *World Health Organization Classification of the Tumours of Female Reproductive Organs*. Lyon, France: IARC; 2014:130-131.
- 85) Milner DA. *Diagnostic Pathology: Infectious Diseases*. Philadelphia, PA: Elsevier; 2016:10-13.
- 86) Wenig BM. *Atlas of Head and Neck Pathology*. 2nd ed. Philadelphia, PA: Elsevier; 2008:458-461.
- 87) Hermanns B, Brunn A, Schwarz ER, et al. Fulminant toxoplasmosis in a heart transplant recipient. *Pathol Res Pract*. 2001;197:211-215.
- 88) Mills SE, Carter D, Greenson JK, Reuter VE, Stoler MH, eds. *Sternberg's Diagnostic Surgical Pathology*. Philadelphia, PA: Lippincott Williams & Wilkins; 2004:4r.

**SURGICAL PATHOLOGY (cont'd)**

- 89) Jennette JC, Olson JL, Schwartz MM, Silva FG, eds. *Heptinstall's Pathology of the Kidney*. 6th ed. New York, NY: Lippincott Williams & Wilkins; 2007:178.
- 90) Wenig B. *Atlas of Head and Neck Pathology*. 3rd ed. Philadelphia, PA: Elsevier; 2016:469-481.
- 91) Tetu B. Juxtaglomerular cell tumour. In: Eble JN, Sauter G, Epstein JI, eds. *World Health Organization Classification of Tumors. Pathology and Genetics of the Urinary System and Male Genital Organs*. Lyon, France: IARC Press; 2004:72-73.
- 92) Rosen PP. *Rosen's Breast Pathology*. 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2008:834.
- 93) Verduin L, Mentrikoski MJ, Heitz et al. The Utility of GATA3 in the Diagnosis of Urothelial Carcinomas with Variant Morphologic Patterns. *Appl Immunohistochem Mol Morphol*. 2016 Aug;24(7):509-513.  
Wendroth SM, Mentrikoski MJ, Wick MR. GATA3 expression in morphologic subtypes of breast carcinoma: a comparison with gross cystic disease fluid protein 15 and mammaglobin. *Ann Diagn Pathol*. 2015 Feb;19(1):6-9.
- 94) Odze RD, Goldblum JR. *Odze and Goldblum Surgical Pathology of the GI Tract, Liver, Biliary Tract, and Pancreas*. 3rd ed. Philadelphia, PA: Elsevier Saunders; 2015:305-351.
- 95) The Endocrine System. In: Kumar V, Abbas AK, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease*. 8th ed. Philadelphia, PA: Saunders Elsevier; 2010:1127-1129.
- 96) Mills SE, Carter D, Greenson JK, Reuter VE, Stoler MH, eds. *Sternberg's Diagnostic Surgical Pathology*. Vol 2. 5th ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2010:1334-1335.
- 97) Baergen RN. *Manual of Pathology of the Human Placenta*. 2nd ed. New York, NY: Springer; 2011:336-349.
- 98) Amin MB, Edge SB, Greene FL, et al, eds. *AJCC Cancer Staging Manual*. 8th ed. New York, NY: Springer; 2017:431-456.
- 99) Guyétant S, Dupre F, Bigorgne JC, Franc B, et al, eds. Medullary thyroid microcarcinoma: a clinicopathologic retrospective study of 38 patients with no prior familial disease. *Human Pathol*. 1999;30:957-963.
- 100) Turesson C, O'Fallon WM, Crowson CS, et al. Extra-articular disease manifestations in rheumatoid arthritis: incidence trends and risk factors over 46 years. *Ann Rheum Dis*. 2003;62:722-727.
- 101) Griffith C, Stelow E, Saqi A, Khalbus WE, Schneider F, Chiosea S, Seethala RR. The Cytological Features of Mammary Analogue Secretory Carcinoma. *Cancer Cytopathology*. May 2013;234-241.
- 102) Kumar V, Abbas AK, Fausto N, eds. *Robbins and Cotran Pathologic Basis of Disease*. 7th ed. Philadelphia, PA: Elsevier Saunders; 2004:1146.
- 103) Baergen, RN. *Manual of Pathology of the Human Placenta*. 2nd ed. New York: Springer, 2011:293-294.
- 104) Ishak KG, Goodman ZD, Stocker JT. *Tumors of the Liver and Intrahepatic Bile Ducts. Atlas of Tumor Pathology*. Washington, DC: Armed Forces Institute of Pathology; 2001:30-31.
- 105) Kumar V, Abbas K, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease*. 8th ed. Philadelphia, PA: Saunders Elsevier; 2010:1086.
- 106) Lui C, Crawford JM. The gastrointestinal tract. In: Kumar V, Abbas AK, Fausto N, eds. *Robbins and Cotran Pathologic Basis of Disease*. 7th ed. Philadelphia, PA: Elsevier Saunders; 2005:829, 831-841, 846-851.
- 107) Rosai J. *Rosai & Ackerman's Surgical Pathology*. 9th ed. St Louis, MO: Mosby; 2004:306-307.
- 108) Hruban RH, et al. *AFIP Atlas of Nontumor Pathology: Gastrointestinal Disorders*. Washington, DC: American Registry of Pathology; 2007:460.
- 109) Burger PC, Scheithauer BW, Vogel FS. *Surgical Pathology of the Nervous System and Its Coverings*. 4th ed. New York, NY: Churchill Livingstone; 2002:Chap.4.
- 110) Kurman RJ, et al. *Blaustein's Pathology of the Female Genital Tract*. 6th ed. New York, NY: Springer; 2011:855-864.
- 111) Carson FL, Hladik C. *Histotechnology A Self-Instructional Text*. Chicago, IL: ASCP Press; 2009:213.
- 112) Evans HL, Vassilopoulou-Sellin R. Adrenal cortical neoplasms. a study of 56 cases. *Am J Clin Pathol*. 1996;105:76-86.
- 113) Love S, Louis DN, Ellison DW, eds. *Greenfield's Neuropathology*. 8th ed. USA: Oxford University Press; 2008:1322-1323.
- 114) The Cancer Genome Atlas Network. Comprehensive molecular characterization of human colon and rectal cancer. *Nature*. 2012 Jul 18;487(7407):330-337.
- 115) Leslie KO. Pathology of interstitial lung disease. *Clin Chest Med*. 2004;25:657-703.
- 116) Hruban RH, Pitman MB, Klimstra D. *AFIP Atlas of Tumor Pathology. Tumors of the Pancreas*. Washington, DC: American Registry of Pathology; 2007:343-347.
- 117) Amin MB, Tickoo SK, eds. *Diagnostic Pathology. Genitourinary*. 2nd ed. Manitoba, Canada: Amirsys; 2016:1-132.
- 118) Kumar V, Abbas AK, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease*. 8th ed. Philadelphia, PA: Saunders Elsevier; 2010:479-481.
- 119) Odze RD, Goldblum JR. *Odze and Goldblum Surgical Pathology of the GI Tract, Liver, Biliary Tract, and Pancreas*. 3rd ed. Philadelphia, PA: Elsevier Saunders; 2015:1259-1261.

**Item References**

**SURGICAL PATHOLOGY (cont'd)**

- 120) Wang SY, Shamlivan T, Virnig BA, Kane R. Tumor characteristics as predictors of local recurrence after treatment of ductal carcinoma in situ: a meta-analysis. *Breast Cancer Res Treat.* 2011;127:(1):1–14.
- 121) Rosai J, et al. Papillary Thyroid Carcinoma. In: Lloyd R, et al, eds. *World Health Organization Classification of Tumours of Endocrine Organs.* Lyon, France: IARC; 2017:81-91.
- 122) Amin MB, McKenney JK, et al. *Diagnostic Pathology: Genitourinary.* Philadelphia, PA: Lippincott Williams & Wilkins; Amirsys Publishers Reg. 2010:2, 52-53.
- 123) Rakha EA, Reis-Filho JS, Ellis IO. Basal-like breast cancer: a critical review. *J Clin Oncol.* 2008;26(15):2568–2581.
- 124) Lynch JM, Barrett TL. Collagenolytic (necrobiotic) granulomas: part I—the "blue" granulomas. *J Cutan Pathol.* 2004;31:353-361.
- 125) Red Blood Cell and Bleeding Disorders. In: Kumar V, Abbas AK, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease.* 8th ed. Philadelphia, PA: Saunders Elsevier; 2010:665.
- 126) Love S, Louis DN, Ellison DW. *Greenfield's Neuropathology.* 8th ed. London: Hodder Arnold; 2008:72.
- 127) Nickeleit V, Zeiler M, Gudat F, Thiel G, Mihatsch MJ. Detection of the complement degradation product C4d in renal allografts: diagnostic and therapeutic implications. *J Am Soc Nephrol.* 2002;13:242-251.
- 128) Wenig B. *Atlas of Head and Neck Pathology.* 3rd ed. Philadelphia, PA: Elsevier; 2016:148-153.
- 129) Humphrey PA, Moch H, Cubilla AL, et al. The 2016 WHO Classification of Tumours of the Urinary System and Male Genital Organs-Part B: Prostate and Bladder Tumors. *Eur Urol.*2016;70(1):106-119.
- 130) Amin MB, Tickoo SK, eds. *Diagnostic Pathology: Genitourinary.* 2nd ed. Philadelphia, PA: Elsevier; 2016:462-469.
- 131) Bosman FT, et al, eds. *World Health Organization Classification of Tumours of the Digestive System.* 4th ed. Lyon, France: IARC Press; 2010:300.
- 132) Donahue I, Montgomery EA, eds. *Gastrointestinal and Liver Pathology.* Philadelphia, PA: Elsevier; 2012:18-20.
- 133) Travis WD, Brambilla E, Muller-Hermelink HK, Harris CC, eds. *World Health Organization Classification of Tumours. Pathology and Genetics of Tumours of the Lung, Pleura, Thymus, and Heart.* Lyon, France: IARC Press; 2004:106-107.
- 134) Kurman RJ, et al. *Blaustein's Pathology of the Female Genital Tract.* 6th ed. New York, NY: Springer; 2011:788-800.
- 135) Wenig B. *Atlas of Head and Neck Pathology.* 3rd ed. Philadelphia, PA: Elsevier; 2016:459-467.
- 136) <http://parklandlab.com/uploads/public/Documents/Labs/Surgical-Pathology/AP%20LRH%20CPT%20codes.pdf>. Accessed November 14, 2017.
- 137) Mills SE, et al, eds. *Sternberg's Diagnostic Surgical Pathology.* 6th ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2015:1199.
- 138) Rosai J. *Rosai & Ackerman's Surgical Pathology.* 9th ed. St Louis, MO: Mosby; 2004:1741-1742.
- 139) Bosman FT, et al, eds. *World Health Organization Classification of Tumours of the Digestive System.* 4th ed. Lyon, France: IARC Press; 2010:296.
- 140) Hammock L, Reisenauer A, Wang W, et al. Latency-associated nuclear antigen expression and human herpesvirus-8 polymerase chain reaction in the evaluation of Kaposi sarcoma and other vascular tumors in HIV-positive patients. *Modern Pathology.* 2005;18:463–468.
- 141) Louis DN, Ohgaki H, Wiestler OD, Cavenee WK, eds. *World Health Organization Classification of Tumours of the Central Nervous System.* 4th ed. Lyon, France: IARC Press; 2007:74.
- 142) Fletcher CDM, Unni KK, Merten F, eds. *World Health Organization Classification of Tumours. Pathology and Genetics of Tumours of Soft Tissue and Bone.* Lyon, France: IARC Press; 2002:203.
- 143) Odze RD, Goldblum JR. *Odze and Goldblum Surgical Pathology of the GI Tract, Liver, Biliary Tract, and Pancreas.* 3rd ed. Philadelphia, PA: Elsevier Saunders; 2015:375-378.
- 144) Komminoth P, et al. Multiple Endocrine Neoplasia. In: Lloyd RV, Osamura RY, Kloppel G, Rosai J, eds. *World Health Organization Classification Tumours of Endocrine Organs.* 4th ed. Lyon, France: IARC; 2017:243-247.
- 145) Elder DE. Precursors to melanoma and their mimics: nevi of special sites. *Mod Pathol.* 2006;19(2):S4-20.
- 146) Schnitt SJ, Collins LC. *Biopsy Interpretation of the Breast.* Philadelphia, PA: Lippincott Williams & Wilkins; 2009:167.

**Item References**

**CLINICAL PATHOLOGY**

**CLINICAL CHEMISTRY**

- 147) McPherson RA, Pincus MR, eds. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 21st ed. Philadelphia, PA: Saunders; 2007:70-72.
- 148) Kumar V, Abbas AK, Fausto N, eds. *Robbins and Cotran Pathologic Basis for Disease*. 7th ed. Philadelphia, PA: Elsevier; 2005:967-968.
- 149) Burtis CA, Ashwood ER, eds. *Tietz Fundamentals of Clinical Chemistry*. 5th ed. Philadelphia, PA: WB Saunders; 2001:630.
- 150) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. St Louis, MO: Elsevier Saunders; 2006:984.
- 151) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:1193-1208.
- 152) Kaplan LA, Pesce A, Kazemierczak S. *Clinical Chemistry, Theory, Analysis and Correlation*. 4th ed. St Louis, MO: Mosby; 2003:565.
- 153) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 5th ed. St Louis, MO: Elsevier Saunders; 2012:898; 933.
- 154) McPherson RA, Pincus MR, eds. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 21st ed. Philadelphia, PA: Elsevier Saunders; 2007:292-293.
- 155) Bais R, Panteghini M. Principles of clinical enzymology. In: Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders, 2006:214-217.
- 156) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Saunders; 2006:562.
- 157) **Deleted**
- 158) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:1047.
- 159) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Fundamentals of Clinical Chemistry*. 6th ed. St Louis, MO: Saunders Elsevier; 2008:569.
- 160) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Fundamentals of Clinical Chemistry*. 6th ed. St Louis, MO: Saunders Elsevier; 2008:411-427.
- 161) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:773.
- 162) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 5th ed. St Louis, MO: Elsevier Saunders; 2012:1121-1122.
- 163) Myers GL, Miller WG, Coresh J, et al. Recommendations for improving serum creatinine measurement: a report from the laboratory working group of the National Kidney Disease Education Program. *Clin Chem*. 2006;52:5-18.
- 164) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:1335.
- 165) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. St Louis, MO: Elsevier Saunders; 2006:2083.
- 166) Jacobs JFM, Joosten JI, Klasen IS. What is Your Guess? Detecting only Light Chains, Now What? *Clinical Chemistry*. 2010;56(8):1368.
- 167) American Diabetes Association. Standards of Medical Care in Diabetes. *Diabetes Care*. 2010;133 (Supp 1).
- 168) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:948-949.
- 169) Solberg HE. Establishment and use of reference values. In: Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders, 2006:437-439.
- 170) Burtis CA, Bruns DE, eds. *Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics*. 7th ed. St Louis, MO: Elsevier Saunders; 2015:35-36.
- 171) Burtis CA, Bruns DE, eds. *Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics*. 7th ed. St Louis, MO: Elsevier Saunders; 2015:542-543.
- 172) McClatchey KD. *Clinical Laboratory Medicine*. 2nd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2002:643.  
Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:2167.

**Item References**

**CLINICAL CHEMISTRY (cont'd)**

- 173) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 5th ed. St Louis, MO: Elsevier Saunders; 2012:1707.
- 174) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 5th ed. St Louis, MO: Elsevier Saunders; 2012:1786.
- 175) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:1920.
- 176) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics*. 5th ed. St Louis, MO: Elsevier Saunders; 2012:396.
- 177) Love LA, Leff RL, Fraser DD, et al. A new approach to the classification of idiopathic inflammatory myopathy. *Medicine (Baltimore)*. 1991;70:360.
- 178) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 5th ed. St Louis, MO: Elsevier Saunders; 2012:2187.
- 179) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:850-851.
- 180) McClatchey KD, ed. *Clinical Laboratory Medicine*. 2nd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2002:1484-1485.
- 181) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 5th ed. St Louis, MO: Elsevier Saunders; 2012:1043.
- 182) Deleted
- 183) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Fundamentals of Clinical Chemistry*. 6th ed. St Louis, MO: Saunders Elsevier; 2008:303.
- 184) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:239.
- 185) Burtis CA, Bruns DE, eds. *Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics*. 7th ed. St Louis, MO: Elsevier Saunders; 2015:547.
- 186) Burtis CA, Ashwood ER, Bruns DE, eds. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2006:1767.

**HEMATOLOGY**

- 187) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. 4th ed. Lyon, France: IARC Press; 2008:168-175.
- 188) Freyburger G, Javarschi S, Labrousche S, et al. Laboratory tests for diagnosis of APC-R: possibilities, limitations, and pitfalls. *Lab Hematol*. 1998;4:133-141.  
McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:834-841.
- 189) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumors of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:219.
- 190) Orkin SH, et al. *Nathan and Oski's Hematology of Infancy and Childhood: Expert Consult*. 7th ed. Philadelphia, PA: Elsevier; 2008:771-772.  
Glassy EF. *Color Atlas of Hematology: An Illustrated Field Guide Based on Proficiency Testing*. Northfield, IL: CAP Press; 1998:106-108.
- 191) Laposata M. *Laboratory Medicine: Clinical Pathology in the Practice of Medicine*. Chicago, IL: ASCP; 2002:305.
- 192) Hussong JW, Kjeldsberg CR. *Body Fluid Analysis*. Chicago, IL: ASCP Press; 2015:93-111.
- 193) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:510-539.
- 194) Perkins S. Hereditary disorders of the hexose monophosphate shunt pathway: glucose-6-phosphate dehydrogenase deficiency. In: Perkins S, Kjeldsberg CR, eds. *Practical Diagnosis of Hematologic Disorders*. 5th ed. Chicago, IL: ASCP Press; 2010:114.  
Beutler E. Glucose-6-phosphate dehydrogenase deficiency: a historical perspective. *Blood*. 2008;111:16-24.
- 195) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:510-539.
- 196) Simon TL, Dzik WH, Snyder EL, et al. *Rossi Principles of Transfusion Medicine*. 3rd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2002:346.

**Item References**

**HEMATOLOGY (cont'd)**

- 197) Foucar K, Viswanatha DS, Wilson CS eds. *Atlas of Nontumor Pathology. Fascicle 6: Non-Neoplastic Disorders of Bone Marrow*. Washington, DC: ARP Press; 2008:94-95.
- 198) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:134-136.
- 199) Dong JF. Structural and functional correlation of ADAMTS13. *Curr Opin Hematol*. 2007;14(3):270-276.  
Moake JL. Journey in reverse: TTP from bedside to blood bank to bench. *J Clin Apher*. 2007; 22(1):37-49.
- 200) Foucar K, Reichard K, Czuchlewski D, eds. *Bone Marrow Pathology*. 3rd ed. Chicago, IL: ASCP Press; 2010:750.
- 201) Keren DF, McCoy JP, Carey JL, eds. *Flow Cytometry in Clinical Diagnosis*. 4th ed. Chicago, IL: ASCP Press; 2007:45-46.
- 202) Tkachuk DC, Hirschmann JV. *Wintrobe's Atlas of Clinical Hematology*. Philadelphia, PA: Lippincott Williams & Wilkins; 2007:39.
- 203) Van Cott EM, Laposata M. Bleeding and Thrombotic Disorders. In: Laposata M, ed. *Laboratory Medicine: The Diagnosis of Disease in the Clinical Laboratory*. 2nd ed. New York, NY: McGraw-Hill; 2014:253-290.
- 204) Foucar K, Reichard K, Czuchlewski D, eds. *Bone Marrow Pathology*. 3rd ed. Chicago, IL: ASCP Press; 2010:157.
- 205) Foucar K, Reichard K, Czuchlewski D, eds. *Bone Marrow Pathology*. 3rd ed. Chicago, IL: ASCP Press; 2010:119.
- 206) Warkentin TE. Management of heparin-induced thrombocytopenia: a critical comparison of lepirudin and argatroban. *Thromb Res*. 2003;110:73-82.
- 207) Kjeldsberg CR, Perkins SL, eds. *Practical Diagnosis of Hematologic Disorders*. 5th ed. Chicago, IL: ASCP Press; 2009:247-255.
- 208) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:559-605.
- 209) Lewis SM, Bain BJ, Bates L, eds. *Dacie and Lewis Practical Haematology*. Philadelphia, PA: Churchill Livingstone Elsevier; 2006:187-203.
- 210) Stiene-Martin EA, Cheryl A, Lotspeich-Steininger JA, Koepke *Clinical Hematology: Principles, Procedures, Correlations*. 2nd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 1997:519.  
McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:510-539.
- 211) Kumar V, Abbas AK, Fausto N, Aster JC, eds. *Robbins and Cotran Pathologic Basis of Disease*. 8th ed. Philadelphia, PA: Saunders Elsevier; 2010:151.
- 212) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:510-539.
- 213) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:82-86.
- 214) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:169.
- 215) Hoffman R, et al, eds. *Hematology Basic Principles and Practice*. 6th ed. Philadelphia, PA: Saunders Elsevier 2013:618.
- 216) Holland SM. Chronic Granulomatous Disease. *Clinic Rev Allerg Immunol*. 2010;38:3-10.  
Dinauer MC, Newburger PE. The phagocyte system and disorders of granulopoiesis and granulocyte function. In: Orkin SH, Nathan DG, et al, eds. *Nathan and Oski's Hematology of Infancy and Childhood*. 7th ed. Philadelphia, PA: Saunders Elsevier; 2009:1109-1120.
- 217) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:141-143.
- 218) Kitchens CS. The contact system. *Arch Pathol Lab Med*. 2002;126:1382-1386.
- 219) Lawrence C, Fabry ME, Nagel RL. The unique red cell heterogeneity of SC disease: crystal formation, dense reticulocytes and unusual morphology. *Blood*. 1991;78:2104-2112.
- 220) Reichard K. Metastatic Lesions in Bone Marrow. In: Foucar K, Reichard K, Czuchlewski D, eds. *Bone Marrow Pathology*. Chicago, IL: ASCP Press; 2010:687-701.
- 221) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:510-539.
- 222) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:834-841.
- 223) Gosselin RC, Adcock DM. The laboratory's 2015 perspective on direct oral anticoagulant testing. *J Thromb Haemost*. 2016;14:886-893.
- 224) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:115-116.

**Item References**

**HEMATOLOGY (cont'd)**

- 225) Hapgood G, Butler J, Malan E et al. The effect of dabigatran on the activated partial thromboplastin time and thrombin time as determined by the Hemoclot thrombin inhibitor assay in patient plasma samples. *Thromb Haemost.* 2013;110:308-315.
- 226) Schumann GB, Friedman SK. *Wet Urinalysis.* Chicago, IL: ASCP Press; 2003:46-47.

**MICROBIOLOGY**

- 227) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:322.
- 228) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:1037-1054.
- 229) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:1212-1245.
- 230) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:1984-2014.
- 231) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:1297-1298.
- 232) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:536-594.
- 233) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:1841-1858.
- 234) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:2236-2254.
- 235) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:2472.
- 236) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:887-904.
- 237) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:2153-2172.
- 238) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:1818-1827.
- 239) <https://www.cdc.gov/flu/>. Accessed November 13, 2017.
- 240) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:504-535.
- 241) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:1072-1075.
- 242) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015: 1783-1802.
- 243) Ash LR, Orihel TC. *Ash & Orihel's Atlas of Human Parasitology.* 5th ed. Chicago, IL: ASCP Press; 2007:104-105.
- 244) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:354-382.
- 245) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:2023.
- 246) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:2338-2356.
- 247) Clinical and Laboratory Standards Institute. M100. *Performance Standards for Antimicrobial Susceptibility Testing.* 27th ed. Wayne, PA: CLSI Press; 2017:12-13.
- 248) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:383-402, 422-436, 462-473, 1171-1211.
- 249) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:2456-2459.
- 250) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:2087-2108.
- 251) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology.* 11th ed. Washington, DC: ASM Press; 2015:316-349.

**Item References**

**MICROBIOLOGY (cont'd)**

- 252) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:386.
- 253) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:297.
- 254) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:967-993.
- 255) Winn WC, Allen SD, Janda WM, et al, eds. *Koneman's Color Atlas and Textbook of Diagnostic Microbiology*. 6th ed. Philadelphia, PA: Lippincott Williams & Wilkins, 2005:1085-1090.  
Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:536-594.
- 256) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:722.
- 257) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:2493-2504.
- 258) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:2030-2056.
- 259) Deleted
- 260) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:2450-2451.
- 261) CDC. Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings. 2007:94.  
Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:1519-1535.
- 262) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:1195-1196.
- 263) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:1599-1616.
- 264) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:595-612.
- 265) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:2116.
- 266) Jorgensen JH, Pfaller MA, Carroll KC, et al, eds. *Manual of Clinical Microbiology*. 11th ed. Washington, DC: ASM Press; 2015:462-473.

**TRANSFUSION MEDICINE**

- 267) Simon TL, Snyder EI, Stowell CP, et al, eds. *Rossi's Principles of Transfusion Medicine*. 4th ed. Oxford, England: Wiley-Blackwell; 2009:228-246, 852, 834.
- 268) Roback JD, et al, eds. *AABB Technical Manual*. 17th ed. Bethesda, MD: AABB; 2011:639-641.
- 269) Winters JL, et al, eds. *Therapeutic Apheresis: A Physician's Handbook*. 4th ed. Bethesda, MD: AABB; 2013:14.
- 270) Fung MK, et al, eds. *AABB Technical Manual*. 18th ed. Bethesda, MD: AABB; 2014: 686-688.
- 271) Fung MK, et al, eds. *AABB Technical Manual*. 18th ed. Bethesda, MD: AABB; 2014:198-199.
- 272) Fung MK, et al, eds. *AABB Technical Manual*. 18th ed. Bethesda, MD: AABB; 2014:458-59.
- 273) Fung MK, et al, eds. *AABB Technical Manual*. 18th ed. Bethesda, MD: AABB; 2014:669.
- 274) Harmening D. *Modern Blood Banking and Transfusion Practices*. 6th ed. Philadelphia, PA: FA Davis; 2012:231-238.
- 275) Culler EE, Logdberg LE. Albumin. In: Hillyer CD, Silberstein LE, Ness MD, et al, eds. *Blood Banking and Transfusion Medicine-Basic Principles and Practice*. 2nd ed. New York, NY :Churchill Livingstone; 2007:278-285.
- 276) Winters JL, Crookston KP, Delaney M, et al. *Therapeutic Apheresis: A Physician's Handbook*. 4th ed. Bethesda, MD: AABB; 2013:16-17.
- 277) Sihler KC, Napolitano LM. Massive transfusion: insights. *Chest*. 2009;136:1654-1667.
- 278) Kitchens CS, Kessler CM, Konkle BA. *Consultative Hemostasis and Thrombosis*. 3rd ed. Philadelphia, PA: Elsevier Saunders; 2013:26.
- 279) Fung MK, et al, eds. *AABB Technical Manual*. 18th ed. Bethesda, MD: AABB; 2014:668.
- 280) Fung MK, et al, eds. *AABB Technical Manual*. 18th ed. Bethesda, MD: AABB; 2014:121-127.  
Ooley PW, ed. *AABB Standards for Blood Banks and Transfusion Services*. 30th ed. Bethesda, MD: AABB; 2016:60-67.

**Item References**

**TRANSFUSION MEDICINE (cont'd)**

- 281) Fung Y, Silliman C. The Role of Neutrophils in the Pathogenesis of Transfusion-Related Acute Lung Injury. *Trans Med Rev.* 2009;23:266-283.  
Bux J. Antibody-Mediated (immune) Transfusion-Related Acute Lung Injury. *Vox Sang.* 2011;100, 122-138.
- 282) Ooley PW, ed. *AABB Standards for Blood Banks and Transfusion Services.* 30th ed. Bethesda, MD: AABB; 2016:51-53; Standard 5.1.8A.
- 283) AABB. *Standards for Blood Banks and Transfusion Services.* 29th ed. Bethesda, MD: AABB; 2014:24. Std. 5.7.3.1.
- 284) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:633.
- 285) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:606-607.
- 286) Randolph TR. Hemoglobinopathies (Structural Defects in Hemoglobin). In: Rodak BF, Fritsma GA, Doig K, eds. *Hematology Clinical Principles and Applications.* 3rd ed. St. Louis, MO: Saunders; 2007:336-344.
- 287) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:481-484.
- 288) Shaz B, et al. *Transfusion Medicine and Hemostasis: Clinical and Laboratory Aspects.* 2nd ed. Waltham, MA. Elsevier; 2013:675-680.
- 289) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:145.
- 290) AABB Press, McLeod B, Szczepiorkowski ZM, Weinstein R, Winters JL, eds. *Apheresis Principles and Practice.* 3rd ed. Bethesda, MD: AABB Press; 2010:496.
- 291) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:187.
- 292) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:459.
- 293) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:130.
- 294) Snyder EL, Haley NR, ed. *Cellular Therapy: A Physician's Handbook.* Bethesda, MD: AABB; 2004:236-241.
- 295) Roback JD, et al, eds. *AABB Technical Manual.* 17th ed. Bethesda, MD: AABB; 2011:594, 598-604.
- 296) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:522.
- 297) Kitchens CS, Kessler CM, Konkle BA. *Consultative Hemostasis and Thrombosis.* 3rd ed. Philadelphia, PA: Elsevier Saunders; 2013:70-71.
- 298) Hillyer CD, Shaz B, Zimring, Ashire, eds. *Transfusion Medicine and Hemostasis: Clinical and Laboratory Aspects.* New York: Elsevier Inc; 2009:420-422.
- 299) Harmening D. *Modern Blood Banking and Transfusion Practices.* 5th ed. Philadelphia, PA: FA Davis; 2005:253-276.
- 300) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:329.
- 301) Roback JD, et al, eds. *AABB Technical Manual.* 17th ed. Bethesda, MD: AABB; 2011:448-455.
- 302) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:377.
- 303) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:563.
- 304) Roback JD, et al, eds. *AABB Technical Manual.* 17th ed. Bethesda, MD: AABB; 2011:727.
- 305) Ooley PW, ed. *Standards for Blood Banks and Transfusion Services.* 30th ed. Bethesda, MD: AABB; 2016:51-53.
- 306) Fung MK, et al, eds. *AABB Technical Manual.* 18th ed. Bethesda, MD: AABB; 2014:171.

**SPECIAL TOPICS**

**HEMATOPATHOLOGY**

- 307) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues.* Revised 4th ed. Lyon, France: IARC Press; 2017:408-410.
- 308) Foucar K, Reichard K, Czuchlewski D, eds. *Bone Marrow Pathology.* 3rd ed. Chicago, IL: ASCP Press; 2010:673-682.
- 309) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues.* Revised 4th ed. Lyon, France: IARC Press; 2017:156-166.
- 310) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues.* Revised 4th ed. Lyon, France: IARC Press; 2017:368-371.
- 311) Xu J, Wei S. Breast implant-associated anaplastic large cell lymphoma: review of a distinct clinicopathologic entity. *Arch Pathol Lab Med.* 2014 Jun;138(6):842-846.

**Item References**

**HEMATOPATHOLOGY (cont'd)**

- 312) Stein H, Delsol G, Pileri SA, et al. Classical Hodgkin Lymphoma. In: Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC; 2017:424-430.
- 313) Foucar K, Reichard K, Czuchlewski D, eds. *Bone Marrow Pathology*. 3rd ed. Chicago, IL: ASCP Press; 2010:303.
- 314) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:241-254.
- 315) Jaffe ES, Arber DA, Campo E, Harris NL, Quintanilla-Fend L, et al, eds. *Hematopathology: Expert Consult*. 2nd ed. Philadelphia, PA: Saunders Elsevier Press; 2016:957-959.
- 316) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:285-290.
- 317) O'Malley DP. *Atlas of Spleen Pathology*. New York, NY: Springer; 2012:138.  
Cheuk W, Lee AK, Arora N, Ben-Arie Y, Chan JK. Splenic hamartoma with bizarre stromal cells. *Am J Surg Pathol*. 2005;29:109-114.
- 318) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Hematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC; 2017:431-434.
- 319) Zhang QY, et al. Bone marrow involvement by hodgkin and non-hodgkin lymphoma. *Hematol Oncol Clin North Am*. 2009;23(4):873-902.
- 320) Venkataraman G, Aguhar C, Kreitman RJ, Yuan CM, Stetler-Stevenson M. Characteristic CD103 and CD123 expression pattern defines hairy cell leukemia: usefulness of CD123 and CD103 in the diagnosis of mature B-cell lymphoproliferative disorders. *Am J Clin Pathol*. 2011;136(4):625-630.
- 321) Swerdlow SH, Campo E, Harris NL, et al, eds. *World Health Organization Classification of Tumours of Haematopoietic and Lymphoid Tissues*. Revised 4th ed. Lyon, France: IARC Press; 2017:266-273.

**LABORATORY ADMINISTRATION**

- 322) McClatchey KD, Travers EM. Basic Laboratory Management. In: McClatchey KD. *Clinical Laboratory Medicine*. Philadelphia, PA: Lippincott Williams & Wilkins; 2002:13.
- 323) Garcia LS, et al, eds. *Clinical Laboratory Management*. Herndon, VA: ASM Press; 2014:112.
- 324) Jhang JS. Evaluation of linearity in the clinical laboratory. *Arch Pathol Lab Med*. 2004;128:44-48.
- 325) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:125-129.
- 326) CLIA Regulations. 42 CFR 493.1105 - Standard: Retention requirements.
- 327) [Logical Observation Identifiers Names and Codes \(LOINC\)](http://www.loinc.org). Available at: [www.loinc.org](http://www.loinc.org). Accessed February 10, 2017.
- 328) Sharkey F, ed. *CAP Laboratory Accreditation Manual 2012 October Edition*. Northfield, IL: College of American Pathologists; 2012:103.
- 329) Wagar EA, Eltoun IA, Horowitz RE. Financial Management of the Laboratory. In: Wagar EA, Horowitz RE, Siegal GP, eds. *Laboratory Administration for Pathologists*. Northfield, IL: CAP Press; 2011:160.
- 330) Schifman RB, Cembrowski G, Wolk D. Quality Management. In: Garcia LS, et al eds. *Clinical Laboratory Management*. Washington, DC: ASM Press; 2004:380.
- 331) Harmening DM. *Laboratory Management: Principles and Processes*. 3rd ed. St. Petersburg, FL: DH Publishing and Consulting; 2013:285.
- 332) Harmening DM. *Laboratory Management: Principles and Processes*. 3rd ed. St. Petersburg, FL: DH Publishing and Consulting; 2013:273.
- 333) Garcia LS, et al, eds. *Clinical Laboratory Management*. Herndon, VA: ASM Press; 2004:79-134.
- 334) Garcia LS, et al, eds. *Clinical Laboratory Management*. Herndon, VA: ASM Press; 2014:211.
- 335) Garcia LS, et al, eds. *Clinical Laboratory Management*. Herndon, VA: ASM Press; 2004:525-550.
- 336) CLSI EP09-A3: *Measurement Procedure Comparison and Bias Estimation Using Patient Samples*. Approved Guideline - 3rd ed. Wayne, PA: Clinical and Laboratory Standards Institute; 2013:CLIS EP09-A3.
- 337) <https://www.cdc.gov/clia/resources/waivedtests/default.aspx>. Accessed October 2017.
- 338) McPherson RA, Pincus MR. *Henry's Clinical Diagnosis and Management by Laboratory Methods*. 23rd ed. Philadelphia, PA: Saunders Elsevier; 2017:102-104.
- 339) Deleted

**Item References**

**MOLECULAR PATHOLOGY**

- 340) Buckingham L, Flaws ML. *Molecular Diagnostics: Fundamentals, Methods, and Clinical Applications*. Philadelphia, PA: FA Davis; 2007:76-77.
- 341) Nussbaum RL, McInnes RR, Willard HF, eds. *Thompson & Thompson Genetics in Medicine*. 8th ed. Philadelphia, PA: Elsevier Saunders; 2016:386-388.
- 342) Nussbaum RL, McInnes RR, Willard HF, eds. *Thompson & Thompson Genetics in Medicine*. 8th ed. Philadelphia, PA: Elsevier Saunders; 2016:61-63.
- 343) Wheeler DL, Barrett T, Benson DA, et al. Database resources of the National Center for Biotechnology Information. *Nucleic Acids Res*. 2007;35:D5-D12.
- 344) Haimovich AD. Methods, challenges, and promise of next-generation sequencing in cancer biology. *Yale J Biol Med*. 2011;84:439-446.
- 345) Buckingham L. *Molecular Diagnostics*. 2nd ed. Philadelphia, PA: FA Davis Company; 2012:373-375.
- 346) Schrijver I, Aziz N, Farkas DH, Furtado M, Ferreira-Gonzalez, A, Greiner TC, Grody WW, et al, eds. Opportunities and challenges associated with clinical diagnostic genome sequencing: A report of the Association for Molecular Pathology. *J Mol Diagn*. 2012;14:525-540.
- 347) Burtis CA, Ashwood ER, Bruns DE. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 4th ed. Philadelphia, PA: Elsevier Saunders; 2005:1394.
- 348) McClatchey KD, ed. *Clinical Laboratory Medicine*. 2nd ed. Philadelphia, PA: Lippincott Williams & Wilkins; 2002:154.
- 349) Rifai N, Horvath AR, Wittwer CT. *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics*. 6th ed. St Louis, MO: Elsevier; 2017:1152-1154.
- 350) Akkari Y, Olson S. Fanconi anemia: a decade of discoveries. *J Assoc Genet Technol*. 2004;30:48-53.
- 351) Siddiqui AD, Piperdi B. KRAS mutation in colon cancer: a marker of resistance to EGFR-I therapy. *Ann Surg Oncol*. 2010;17(4):1168-1176.
- 352) Nusbaum RL, McInnes RR, Willard HF. *Thompson & Thompson Genetics in Medicine*. 7th ed. Philadelphia, PA: WB Saunders; 2007:126-130.
- 353) Nusbaum RL, McInnes RR, Willard HF. *Thompson & Thompson Genetics in Medicine*. 6th ed. Philadelphia, PA: WB Saunders; 2001:17-32.
- 354) Bose R, Kavuri SM, Searleman AC, et al. Activating HER2 mutations in HER2 gene amplification negative breast cancer. *Cancer Discov*. 2013;3:224-237.
- 355) Grody WW, Nakamura RM, Kiechle FL, Strom C. *Molecular diagnostics- Techniques and Applications for the Clinical Laboratory*. London UK: Academic Press; 2010:247-248.
- 356) Howard A, et al. Recommendations for Donor HLA Assessment and Matching for Allogeneic Stem Cell Transplantation: Consensus Opinion of the Blood and Marrow Transplant Clinical Trials Network (BMT CTN). *Biol Blood Marrow Transplant*. 2015;21(1):4-7.
- 357) Xu Y, Wahner AE, Nguyen PL. Progression of chronic myeloid leukemia to blast crisis during treatment with imatinib mesylate. *Arch Pathol Lab Med*. 2004 Sep;128(9):980-985.
- 358) Henry JB, ed. *Clinical Diagnosis and Management by Laboratory Methods*. 20th ed. Philadelphia, PA: Saunders; 2001:1377-1378.
- 359) Leonard DGB. *Molecular Pathology in Clinical Practice*. New York, NY: Springer; 2007:496-499.
- 360) *An International System for Human Cytogenetic Nomenclature*. Basel, Switzerland: Karger; 1995:50-74.
- 361) Sepulveda AR, Hamilton SR, Allegra CJ, et al. Molecular biomarkers for the evaluation of colorectal cancer: guideline from the American Society for Clinical Pathology, College of American Pathologists, Association for Molecular Pathology, and American Society of Clinical Oncology. *Arch Pathol Lab Med*. 2017;141(5):625-657. doi: 10.5858/arpa.2016-0554-CP.
- 362) Janeway CA, Shlomchik MJ, Travers P, et al. *Immunobiology*. 5th ed. New York, NY: Garland Publishing; 2001:appendix I