

1

2

Preparing for the American Board
of Pathology (ABPath)
Examination of Fundamental
Knowledge and Skills

Pediatric Pathology

Content Specifications



Overview:

Pediatric Pathology Content Specifications

This guide outlines the content that may appear on the American Board of Pathology’s Pediatric Pathology Subspecialty exam. It provides a framework based on the knowledge and skills typically covered in Fellow-level training, along with applicable Core and Advanced Resident topics from residency training that the trainee is expected to know or be able to perform.

Key to Designations:

C = Core/Foundational Knowledge

AR = Advanced Resident Knowledge

F = Fellow/Advanced Practitioner Knowledge

The exam assesses the knowledge, judgment, skills, and abilities necessary to identify specific entities, properly process specimens, and diagnose and monitor diseases using methods common in the practice of Pediatric Pathology. The specific diseases, tests, and concepts listed in this document are important for candidates to know, but it is not possible to create a fully comprehensive list of all the material needed for certification and effective practice. Candidates should use this guide as a reference when preparing for certification and professional practice.

Table of Contents

Contents

1. Perinatal Pathology: Placental-Maternal-Fetal Relationships in Pregnancy	2
2. Perinatal Pathology: Fetal/Neonatal Pathophysiology	4
3. General Pathologic Principles and Syndromes	5
4. The Cardiovascular System	6
5. The Respiratory System and Mediastinum	7
6. The Central Nervous System	8
7. The Skin	9
8. The Special Senses – Eye and Ear	10
9. The Alimentary Tract	11
10. The Hepatobiliary System and Pancreas	13
11. The Kidney and Urinary System	14
12. The Endocrine System (Excluding Ovary and Testis)	16
13. The Hematopoietic and Lymphoid Systems	16
14. The Breast	18

35	15. The Female Reproductive System.....	18
36	16. Disorders of Sexual Development (Intersex Disorders).....	19
37	17. The Male Reproductive System	19
38	18. Soft Tissue, Peripheral Nerve, and Muscle	20
39	19. The Skeletal System	21
40	20. Diagnostic/Technical Procedures & Laboratory Management.....	21
41	21. Administration & Management	24
42	22. Forensic Pathology: Pediatric Issues.....	25

43

44

45

46 **1. Perinatal Pathology: Placental-Maternal-Fetal Relationships in Pregnancy**

47	a. Conception	
48	i. Implantation	AR
49	b. Normal Embryonic and Fetal Development	
50	i. Normal Histology of Fetal Organs	AR
51	ii. Embryologic Processes	F
52	c. Pregnancy Physiology	
53	i. Amniotic Fluid	
54	1. Oligohydramnios	AR
55	2. Polyhydramnios	AR
56	d. Placenta: Normal and Pathology	
57	i. Normal Anatomy and Histology	
58	1. Membranes	C
59	2. Umbilical Cord	C
60	3. Fetal Vessels	C
61	4. Chorionic Villi	C
62	5. Maternal Intervillous Space	C
63	6. Basal Plate	C
64	ii. Pathologic Conditions of the Placenta	
65	1. Membrane Pathology	
66	a) Meconium	C
67	b) Chorioamnionitis	C
68	c) Amnion Nodosum	AR
69	d) Squamous Metaplasia	AR
70	e) Maternal Vasculopathy	AR
71	f) Amniotic Bands	F
72	2. Umbilical Cord Pathology	
73	a) Coiling Abnormalities	C
74	b) Knots	C

75	c) Velamentous Insertion/Furcate Insertion	C
76	d) Rupture	C
77	e) Funisitis	C
78	f) Single Umbilical Artery	C
79	g) Abnormal Length	AR
80	h) Vasa Previa	AR
81	i) Meconium Injury	AR
82	3. Villous Pathology	
83	a) Infarct	C
84	b) Infectious Villitis	C
85	c) Chronic Villitis	C
86	d) Hydrops	C
87	e) Villous Maturation Abnormalities	
88	(Immature, Hypermature, and Dysmature)	
89	f) Chorangiomas	F
90	g) Acute Villitis	F
91	h) Placental Mesenchymal Dysplasia	F
92	4. Maternal Intervillous Space Pathology	
93	a) Sickle Cell Disease	C
94	b) Massive Subchorionic Hematoma	AR
95	c) Massive Perivillous Fibrin Deposition/Maternal	
96	Floor Infarction	AR
97	d) Intervillositis	AR
98	5. Basal Plate Pathology	
99	a) Placental Abruption/Retroplacental Hematoma	C
100	b) Maternal Vasculopathy	AR
101	6. Implantation Pathology	
102	a) Ectopic Pregnancy	C
103	b) Placenta Previa	C
104	c) Placenta Accreta Spectrum	C
105	7. Fetal Vessel Pathology	
106	a) Thrombi	AR
107	b) Avascular Villi	AR
108	c) Fetal Vascular Malperfusion	AR
109	8. Placental Tumors	
110	a) Chorangioma	AR
111	b) Other Including Metastases	AR
112	e. Multifetal Pregnancy	
113	i. Zygosity	C
114	ii. Placentation	C
115	iii. Twin-Twin Transfusion Syndrome	AR
116	iv. Intrauterine Fetal Loss	AR
117	v. Acardiac Twin/Twin Reversed Arterial Perfusion	F
118	vi. Conjoined Twins	F

119	vii. Fetus In fetu	F
120	f. Gestational Trophoblastic Disease	
121	i. Partial Hydatidiform Mole/Non-Molar Triploidy	C
122	ii. Complete Hydatidiform Mole	C
123	iii. Invasive Mole	AR
124	iv. Choriocarcinoma	AR
125	g. Maternal Disorders Affecting Pregnancy	
126	i. Hypertension	C
127	ii. Diabetes	C
128	iii. Coagulation and Thrombosis	C
129	iv. Illicit Drug Use and Alcohol	AR
130	v. Therapeutic Drug Use	AR
131	vi. Systemic Disorders	AR
132	vii. Endocrine Implications	AR
133	viii. Liver Disease / Cholestasis	AR
134	ix. Anemia	AR
135	x. Autoimmune/Autoinflammatory Diseases (e.g., SLE)	AR
136	xi. Malignancy	AR
137	xii. Nutritional / Vitamin Deficiencies	AR
138	xiii. Trauma	F
139	xiv. Cardiac Disease	F
140	h. Maternal Complications of Pregnancy	AR
141		
142	2. Perinatal Pathology: Fetal/Neonatal Pathophysiology	
143	a. Fetal Loss / Intrauterine Fetal Demise	
144	i. Early (First Trimester)	C
145	ii. Late (Second and Third Trimester) Post-Term Pregnancy	C
146	iii. Changes in Fetal Tissues after Fetal Death	C
147	b. Fetal Growth and Development	
148	i. Abnormal Growth / Maturation / Ossification	C
149	ii. Intrauterine Growth Restriction	C
150	iii. Large for Gestation Age	C
151	c. Hydrops	
152	i. Immune	C
153	ii. Non-Immune	C
154	d. Congenital Anomalies	
155	i. Syndromes	C
156	ii. Associations	C
157	iii. Sequence	C
158	iv. Malformations	C
159	v. Deformations/Disruptions	C
160	e. Congenital Infections	
161	i. Bacterial	AR

162	ii. Viral	AR
163	iii. Parasitic	AR
164	iv. Fungal	AR
165	f. Congenital Neoplasms	
166	i. Teratomas (e.g., Sacrococcygeal Teratoma)	AR
167	g. Complications of Prematurity	
168	i. Lung	
169	1. Bronchopulmonary Dysplasia	AR
170	2. Persistent Pulmonary Hypertension of the Newborn	AR
171	ii. Gastrointestinal (e.g., Necrotizing Enterocolitis)	C
172	iii. CNS and Eye	
173	1. Intraventricular Hemorrhage	C
174	2. Retinopathy of Prematurity	F
175	iv. Iatrogenic Complications	F
176	h. Genetic / Nutritional Disorders	F
177	i. Nutritional Disorders	F
178	i. Birth Trauma	F
179	j. Teratogenesis	F

180

181 3. General Pathologic Principles and Syndromes

182	a. Normal Development, Structure, and Function	C
183	b. Genetic and Chromosomal Disorders	
184	i. Trisomy 21	C
185	ii. Trisomy 13	AR
186	iii. Trisomy 18	AR
187	c. Inflammation, Repair, and Infections	C
188	d. Neoplasia	C
189	e. Autoimmune / Immune Dysregulation Disorders (e.g., SLE)	C
190	f. Dystrophic Calcification	C
191	g. Cystic Fibrosis	AR
192	h. Metabolic Disorders	
193	i. Metal Metabolism Disorders	
194	1. Wilson Disease	AR
195	2. Neonatal Hemochromatosis	F
196	3. Menkes Disease	F
197	ii. Endoplasmic Reticulin Storage Disorders	
198	1. Alpha-1-Antitrypsin Deficiency	AR
199	iii. Diagnostic Methodologies	F
200	iv. Metabolic Autopsy	F
201	v. Lysosomal Storage Disorders	
202	1. Gaucher Disease	F
203	2. Fabry Disease	F
204	3. Neuronal Ceroid Lipofuscinosis	F

205	4. Mucopolysaccharidoses/Mucopolipidoses	F
206	5. Gangliosidosis	F
207	6. Metachromatic Leukodystrophy	F
208	7. Wolman and Cholesterol Ester Storage Disease	F
209	vi. Amino Acidopathies	
210	1. PKU	F
211	2. Tyrosinemia	F
212	vii. Carbohydrate Metabolism Abnormalities	
213	Glycogen Storage Disease	F
214	viii. Fatty Acid Oxidation Disorders	F
215	ix. Mitochondriopathies	F
216	x. Urea Cycle Disorders	F
217	xi. Organic Acidemias	F
218	xii. Peroxisomal Disorders, including Zellweger Syndrome	F
219	i. Nutritional Disorders	F
220	4. The Cardiovascular System	
221	a. Normal Development, Structure, and Function	C
222	i. Normal Circulation of the Embryo and Fetus	C
223	b. Genetic Disorders	
224	i. Monosomy X	C
225	ii. Trisomy 21	C
226	iii. 22q Deletion Syndrome (diGeorge)	C
227	iv. Marfan and Related Syndromes	C
228	v. Trisomy 18	AR
229	vi. Trisomy 13	AR
230	vii. Tuberous Sclerosis	AR
231	viii. Williams-Beuren Syndrome	F
232	c. Malformation	
233	i. Right-to-Left Shunts	C
234	ii. Left-to-Right Shunts	C
235	iii. Valve Atresia, Stenosis, and Related Pathology (e.g., Epstein)	C
236	iv. Aortic Coarctation	C
237	v. Ductus Arteriosus Abnormality	C
238	vi. Aberrant or Anomalous Systemic or Coronary Vessel	C
239	vii. Hypoplastic Left Heart Syndrome	AR
240	viii. Anomalous Pulmonary Venous Connection	AR
241	ix. Abnormal Situs and Visceral Heterotaxy	F
242	x. Cardiac Surgical Procedures	F
243	d. Cardiomyopathy	
244	i. Hypertrophic Cardiomyopathy	C
245	ii. Dilated Cardiomyopathy	C
246	iii. Cor Pulmonale	AR
247	iv. Non-Compaction of the Left Ventricle	F
248	v. Arrhythmogenic Right Ventricular Cardiomyopathy	F

249	vi.	Mitochondrial Cardiomyopathy	F
250	vii.	Storage Disorder Cardiomyopathy	F
251	e.	Myocardial Ischemic Injury	C
252	f.	Inflammatory, Infectious, and Autoimmune Disorders	
253	i.	Myocarditis	C
254	ii.	Endocarditis	C
255	iii.	Rheumatic Heart Disease	AR
256	iv.	Kawasaki Disease	AR
257	v.	Transplant Rejection	F
258	g.	Primary Neoplasms	
259	i.	Rhabdomyoma	AR
260	ii.	Fibroma	AR
261	iii.	Teratoma	AR
262	iv.	Cardiac Myxoma	AR
263	v.	Papillary Fibroelastoma	AR
264	h.	The Aorta and Great Vessels	AR
265	i.	Peripheral Vascular Disorders	
266	i.	Vascular Tumors	AR
267	ii.	Vascular Malformations	AR
268	iii.	Idiopathic Infantile Arterial Calcification	F
269	j.	Other Cardiac Conditions (e.g., Endocardial Fibroelastosis)	AR

270

271 5. The Respiratory System and Mediastinum

272	a.	Normal Development, Structure, and Function	C
273	i.	Surfactant Production and Function	C
274	b.	Tracheobronchial and Pulmonary Disorders of the Newborn	
275	i.	Meconium Aspiration Syndrome	C
276	ii.	Hyaline Membrane Disease	C
277	iii.	Bronchopulmonary Dysplasia	AR
278	iv.	Pulmonary Interstitial Emphysema	AR
279	v.	Necrotizing Tracheobronchitis	AR
280	c.	Inflammatory, Infectious, and Autoimmune Disorders	
281	i.	Congenital Pneumonia	C
282	ii.	Bacterial Infections	C
283	iii.	Fungal Infections	C
284	iv.	Viral Infections	C
285	v.	Mycobacterial Infections	C
286	vi.	Anti-Basement Membrane Disease	AR
287	vii.	Immune Dysregulation Disorders	F
288	viii.	Transplant Rejection	F
289	d.	Childhood Interstitial Lung Disease	
290	i.	Pulmonary Hemosiderosis	AR
291	ii.	Neuroendocrine Cell Hyperplasia of Infancy	F

292	iii.	Pulmonary Interstitial Glycogenosis	F
293	e.	Metabolic and Nutritional Disorders	AR
294	f.	Cysts and Neoplasms	
295	i.	Congenital Pulmonary Airway Malformation	AR
296	ii.	Lobar Sequestration	AR
297	iii.	Bronchogenic Cysts and Other Developmental Cysts	AR
298	iv.	Inflammatory Myofibroblastic Tumor	AR
299	v.	Metastatic Tumors	AR
300	vi.	Tracheobronchial Neoplasia	AR
301	vii.	Pleuropulmonary Blastoma	F
302	g.	Pulmonary Vascular Diseases	
303	i.	Pulmonary Hypertensive Arteriopathy	AR
304	ii.	Lymphangiectasis	F
305	iii.	Alveolar Capillary Dysplasia	F
306	iv.	Pulmonary Veno-Occlusive Disease	F
307	h.	Lesions of the Nasopharynx	
308	i.	Nasopharyngeal Carcinoma	AR
309	ii.	Polyps and Papillomas	AR
310	iii.	Juvenile Nasopharyngeal Angiofibroma	F
311	iv.	Glial Heterotopia	F
312	v.	Nasal Chondromesenchymal Hamartoma	F
313	i.	Malformations	
314	i.	Tracheoesophageal Fistula	AR
315	ii.	Congenital Diaphragmatic Hernia	AR
316	iii.	Pulmonary Agenesis and Hypoplasia	F
317	iv.	Abnormal Lung Lobation	F
318	v.	Congenital Acinar Dysplasia	F
319	j.	Genetic Disorders (e.g., Surfactant System Disorders)	F
320			

321 6. The Central Nervous System

322	a.	Normal Development, Structure, and Function	C
323	b.	Genetic Disorders	
324	i.	Trisomy 21	C
325	ii.	Trisomy 13	AR
326	c.	Malformations	
327	i.	Anencephaly	AR
328	ii.	Holoprosencephaly	AR
329	iii.	Microcephaly	AR
330	iv.	Encephalocele	AR
331	v.	Neural Tube Defect	AR
332	vi.	Lissencephaly	F
333	vii.	Arnold Chiari Malformation	F
334	viii.	Dandy-Walker Malformation	F

335	ix. Neuronal Migration Disorder (e.g., Tuber)	F
336	d. Hypoxic Encephalopathy	
337	i. Infarction	C
338	ii. Germinal Matrix Hemorrhage	AR
339	iii. Leukomalacia	F
340	e. Vascular Disorders	
341	i. Arteriovenous Malformation	C
342	ii. Stroke	C
343	iii. Embolism	C
344	iv. Subgaleal/Intracranial Hemorrhage	C
345	v. Vein of Galen	F
346	f. Infectious (e.g., Meningitis / Encephalitis)	
347	i. Viral	C
348	ii. Bacterial/Mycobacterial	C
349	iii. Fungal	C
350	iv. Parasitic	C
351	g. Demyelinating Disorders	AR
352	h. Metabolic, Nutritional, and Toxic Disorders	
353	i. Kernicterus	AR
354	ii. Mitochondrial Encephalopathy	F
355	i. Cysts and Neoplasms	
356	i. Medulloblastoma	AR
357	ii. Pilocytic Astrocytoma	AR
358	iii. Ependymoma	AR
359	iv. Teratoma and Germ Cell Tumor	AR
360	v. Glial Tumors	AR
361	vi. Atypical Rhabdoid Teratoid Tumors	AR
362	vii. Meningeal Neoplasms	AR
363	viii. Pituitary Lesions	AR
364	ix. Pineal Lesions	AR

365

366 7. The Skin

367	a. Normal Development, Structure, and Function	C
368	b. Genetic Disorders	
369	i. Neurofibromatosis	C
370	ii. Genodermatoses	F
371	iii. Epidermolysis Bullosa	F
372	iv. Ehlers-Danlos Syndrome	F
373	v. Incontinentia Pigmenti	F
374	c. Inflammatory, Infectious, and Autoimmune Disorders	
375	i. Dermatophytoses	AR
376	ii. Viral Exanthems	AR
377	iii. Eosinophilic and Neutrophilic Dermatoses	AR

378	iv.	Lichenoid Dermatoses	AR
379	v.	Vesicular-Bullous Dermatoses	AR
380	vi.	Lupus Erythematosus	AR
381	vii.	Dermatitis Herpetiformis	AR
382	viii.	Linear IgA Dermatitis	AR
383	ix.	Leukocytoclastic Vasculitis	AR
384	x.	Polyarteritis Nodosa	AR
385	xi.	GVHD	AR
386	d.	Metabolic, Nutritional, Degenerative, and Toxic Disorders	
387	i.	Calcinosis Cutis	AR
388	ii.	Granuloma Annulare	AR
389	e.	Cyst and Neoplasms	
390	i.	Langerhans Cell Histiocytosis	AR
391	ii.	Mast Cell Proliferations	AR
392	iii.	Spitz Tumor	AR
393	iv.	Congenital and Acquired Melanocytic Nevi (Non-Spitz)	AR
394	v.	Dermal Hamartomas	AR
395	vi.	Nevus Sebaceous	AR
396	vii.	Adnexal Tumors	AR
397	viii.	Mycosis Fungoides and Cutaneous Lymphomas	AR
398	ix.	Dermatofibroma and Dermatofibrosarcoma Protuberans	AR
399	x.	Congenital Cutaneous Cysts	AR
400	xi.	Juvenile Xanthogranuloma	AR
401	xii.	Fibrous Hamartoma of Infancy	F
402	f.	Vascular Disorders	
403	i.	Vascular Malformations	AR
404	ii.	Vascular Tumors	AR
405	g.	Malformations	F
406			
407		8. The Special Senses – Eye and Ear	
408	a.	Normal Development, Structure, and Function	C
409	b.	Inflammatory, Infectious, and Autoimmune Disorders	
410	i.	Otitis Media / Cholesteatoma	C
411	ii.	Ophthalmitis	C
412	iii.	Sclerosing Orbital Pseudotumor	F
413	c.	Cysts and Neoplasms	
414	iv.	Retinoblastoma	AR
415	v.	Periorbital Neoplasms (e.g., Embryonal Rhabdomyosarcoma)	F
416	d.	Vascular Disorders	
417	i.	Vascular Malformations	AR
418	ii.	Vascular Tumors	AR
419	e.	Genetic Disorders (e.g., Trisomy 13)	F
420	f.	Malformations	F

421	g. Degenerative Conditions (e.g., Cataracts)	F
422		
423	9. The Alimentary Tract	
424	a. Normal Development, Structure, and Function	C
425	b. Oral Cavity	
426	i. Mucocele	C
427	ii. Neoplasm, Benign and Malignant	AR
428	iii. Inflammatory and Infectious Disorders	AR
429	iv. Hamartoma	F
430	v. Congenital / Developmental Anomalie	F
431	c. Odontogenic	
432	i. Congenital / Developmental Anomalies	AR
433	ii. Metabolic / Syndromic Disorders	AR
434	iii. Odontogenic Cysts	
435	1. Dentigerous Cyst	AR
436	2. Odontogenic Keratocyst	AR
437	iv. Odontogenic Tumors, Benign & Malignant	
438	d. Salivary Gland	
439	i. Sialadenitis (Infectious/Inflammatory/Autoimmune)	AR
440	ii. Tumors and Tumor-Like Conditions	
441	1. Pleomorphic Adenoma	C
442	2. Vascular Malformations	AR
443	3. Mucoepidermoid Carcinoma	AR
444	4. Other Salivary Gland Tumors, Benign and Malignant	AR
445	e. Malformations of the Gastrointestinal Tract	
446	i. Remnant / Heterotopia (e.g., Meckel Diverticulum)	C
447	ii. Atresia / Stenosis	AR
448	iii. Fistula	AR
449	iv. Duplication	AR
450	v. Remnant / Heterotopia	AR
451	vi. Malrotation / Abnormal Fixation	AR
452	vii. Omphalocele / Gastroschisis	AR
453	f. Congenital Diarrheal/Enteropathic Syndromes	
454	i. Microvillous Inclusion Disease	F
455	ii. Tufting Enteropathy	F
456	iii. Malabsorption due to Transport or Enzyme Disorders	F
457	g. Immune-Mediated Disorders	
458	i. Celiac Sprue	C
459	ii. Eosinophilic / Allergic Gastroenteritis	C
460	iii. Lymphocytic / Collagenous Enteritis	AR
461	iv. Graft-Versus-Host Disease	AR
462	v. Autoimmune Enteropathy	F
463	vi. Immunodeficiency / Immune Dysregulation	F

464	vii. Bullous Diseases	F
465	h. Inflammatory and Infectious Disorders	
466	i. Reflux/Barrett esophagitis	C
467	ii. Infectious Gastroenteritis	C
468	1. Viral Gastroenteritis	C
469	2. Fungal Gastroenteritis	C
470	3. Bacterial Gastroenteritis	C
471	a) Helicobacter Gastritis	C
472	b) Clostridioides difficile colitis	C
473	4. Parasitic Gastroenteritis	AR
474	iii. Necrotizing Enterocolitis	C
475	iv. Acute Appendicitis	C
476	v. Drug/Caustic Injury	AR
477	vi. Bowel Perforation/Meconium and Other Causes of Peritonitis	AR
478	i. Inflammatory Bowel Disease	
479	i. Ulcerative Colitis	C
480	ii. Crohn Disease	C
481	iii. Intermediate Enteritis	C
482	j. Metabolic, Systemic, and Nutritional Disorders	
483	i. Cystic Fibrosis	AR
484	ii. Vasculitis	AR
485	k. Pseudo-Obstruction	
486	i. Dysmotility Disorders	
487	1. Aganglionosis/Hirschsprung Disease	C
488	2. Other Dysmotility Disorders	F
489	ii. Enteric Myopathies	F
490	l. Obstruction, Acquired	
491	i. Intussusception	C
492	ii. Volvulus	C
493	iii. Bezoar	C
494	m. Tumor-Like Conditions	
495	i. Lymphangiectasis	AR
496	n. Polyps and Polyposis Syndromes	
497	i. Juvenile	C
498	ii. Hamartomatous	C
499	iii. Hyperplastic	C
500	iv. Adenomatous	C
501	v. Inflammatory	C
502	o. Neoplasms, Benign and Malignant	
503	i. Epithelial	AR
504	ii. Mesenchymal	AR
505	iii. Lymphoid/Hematopoietic	AR
506		

507	10. The Hepatobiliary System and Pancreas	
508	a. Normal Anatomy and Development	C
509	b. Developmental Anomalies of the Liver & Extrahepatic Biliary Tree	F
510	i. Congenital Hepatic Fibrosis	F
511	ii. Caroli Disease	F
512	c. Cholestatic Disorders of Infancy	
513	i. Extrahepatic Biliary Atresia	F
514	ii. Syndromic and Non-Syndromic Paucity	F
515	iii. Disorders of Intrahepatic Bile Transport	F
516	iv. Progressive Familial Intrahepatic Cholestasis	F
517	v. Disorders of Bile Acid Synthesis	F
518	d. Metabolic Disorders	
519	i. Alpha-1 Antitrypsin	C
520	ii. Cystic Fibrosis	C
521	iii. Wilson Disease	C
522	iv. Carbohydrate Disorders including Pompe	F
523	v. Lysosomal Storage Disease	F
524	vi. Tyrosinemia	F
525	vii. Mitochondrial Disorders	F
526	viii. Urea Cycle Disorders	F
527	ix. Lipid and Lipoprotein Disorders	F
528	e. Nutritional Disorders	
529	i. Steatosis, Steatohepatitis, Metabolic Syndrome	C
530	ii. Hyperalimentation (TPN) Hepatopathy	AR
531	f. Infectious, Inflammatory, and Autoimmune Disorders	
532	i. Viral Hepatitis	C
533	ii. Drug/Toxin Induced	C
534	iii. Non-Viral Causes of Infectious Hepatitis	AR
535	iv. Autoimmune Hepatitis	AR
536	v. Cholangitis (e.g., Primary Sclerosis Cholangitis)	AR
537	vi. Neonatal Giant Cell Hepatitis	F
538	vii. Neonatal Hemochromatosis	F
539	g. Liver Transplantation Pathology	
540	i. Cellular or Humoral Rejections	AR
541	ii. Perfusion Injury	AR
542	iii. Complications of Biliary Drainage	AR
543	iv. Immunosuppression Complications, Infections & PTLD	AR
544	h. Vascular Disorders	
545	i. Portal Hypertension	C
546	ii. Subcapsular Hematoma	C
547	iii. Veno-Occlusive Disease / Budd-Chiari	AR
548	i. Neoplasms, Cysts, and Tumor-Like Disorders	
549	i. Bile Duct Hamartoma	C
550	ii. Subcapsular Hematoma	C

551	iii.	Hepatoblastoma	AR
552	iv.	Hepatocellular Carcinoma	AR
553	v.	Focal Nodular Hyperplasia	AR
554	vi.	Nodular Regenerative Hyperplasia	AR
555	vii.	Vascular Malformations and Neoplasms	AR
556	viii.	Hepatic Adenoma	AR
557	ix.	Secondary Liver Involvement (e.g., AML, Neuroblastoma)	AR
558	x.	Extramedullary Hematopoiesis	AR
559	xi.	Ciliated Foregut Cyst	F
560	xii.	Undifferentiated / Embryonal Sarcoma	F
561	xiii.	Mesenchymal Hamartoma	F
562	j.	Systemic Disorders	
563	i.	Hemophagocytic Lymphohistiocytosis	AR
564	ii.	Hereditary Fibrocystic Disease (e.g., Ciliopathies)	F
565	k.	Gallbladder	
566	i.	Normal Anatomy and Histology	C
567	ii.	Common Pathologic Conditions (e.g., Cholecystitis)	C
568	l.	Pancreas	
569	i.	Systemic Disorders Involving the Pancreas	
570		1. Cystic Fibrosis	C
571		2. Diabetes Mellitus	C
572		3. Shwachman-Diamond	F
573		4. Neonatal Hemochromatosis	F
574	ii.	Non-Neoplastic	
575		1. Inflammatory Conditions	C
576		2. Cyst/Pseudocyst	C
577		3. Neonatal Hyperinsulinism/Neonatal Diabetic Ketoacidosis	F
578	iii.	Neoplasia	
579		1. Solid Pseudopapillary Neoplasm	AR
580		2. Acinar Cell Carcinoma	AR
581		3. Endocrine Tumors	AR
582		4. Pancreatoblastoma	F
583	iv.	Malformations (e.g., Annular Pancreas)	F

584

585 11. The Kidney and Urinary System

586	a.	Normal Anatomy, Histology, and Development	C
587	b.	Malformations	
588	i.	Ureteral Ectopia including Vesicoureteral Reflux and Duplex	
589		Collecting System	AR
590	ii.	Fused / Ectopic Kidney	AR
591	iii.	Renal Hypoplasia	AR
592	iv.	Exstrophy	F
593	v.	Bladder / Kidney Outlet Obstruction (e.g., Prune Belly Syndrome)	F

594	vi. Renal Tubular Dysgenesis	F
595	c. Metabolic and Nutritional Disorders	
596	i. Lipid and Peroxisomal Disorders	F
597	ii. Lysosomal Storage Disorders	F
598	iii. Purine Metabolism and Associated Disorders	F
599	d. Renal Dysplasia	
600	i. Multicystic Renal Dysplasia	C
601	ii. Medullary Dysplasia	F
602	iii. Segmental, Hypoplastic, or Dysplastic Conditions	F
603	e. Cystic Disease	
604	i. AD- or AR- PKD	AR
605	ii. Glomerulocystic Diseases, NOS	F
606	iii. Other Ciliopathies	F
607	f. Hydronephrosis / Obstructive Nephropathy	AR
608	g. Glomerular Disease	
609	i. Podocytopathy (FSGS, MCNS, CNS)	AR
610	ii. Immune Complex Disease	AR
611	iii. Crescentic Disease, excluding Immune Complex (e.g., ANCA)	AR
612	iv. Glomerular Basement Membrane Disorders	AR
613	h. Tubulointerstitial Disease	
614	i. Acute Tubular Necrosis	C
615	ii. Tubulointerstitial Nephritis	AR
616	1. Infectious	AR
617	2. Drug-Induced	AR
618	3. Immune-Mediated (e.g., TINU, Sarcoidosis)	AR
619	4. Antibody-Mediated	AR
620	i. Renal Vascular Diseases	
621	i. Renal Artery Dysplasia	AR
622	ii. Vasculitis, Medium and Large Vessel	AR
623	j. Renal Transplantation Pathology	
624	i. Cellular and/or Humoral Rejection	AR
625	ii. Complications of Immunosuppression	AR
626	iii. Other Infectious/Inflammatory Conditions	AR
627	k. Renal Neoplasms	
628	i. Wilms Tumor and Related Nephroblastic Variants	C
629	ii. Congenital Mesoblastic Nephroma	C
630	iii. Clear Cell Saroma	AR
631	iv. Rhabdoid Tumor	AR
632	v. Renal Cell Carcinoma	AR
633	vi. Angiomyolipoma	AR
634	vii. Other Renal Neoplasms	AR
635	l. Lower Urinary Tract Neoplasms and Tumor-Like Lesions	
636	i. Nephrogenic Adenoma	AR
637	ii. Inflammatory Myofibroblastic Tumor	AR

638	iii. Rhabdomyosarcoma	AR
639	m. Systemic Disorders Involving the Kidney	
640	i. Hypertension	C
641	ii. Diabetes Mellitus	C
642	iii. Thrombotic Microangiopathy (e.g., HUS)	AR
643	n. Urinary Calculi	F
644		

12. The Endocrine System (Excluding Ovary and Testis)

645	a. Normal Anatomy, Histology, and Development	C
647	b. Parathyroid Pathology	
648	i. Hyperplasia	AR
649	ii. Adenoma	AR
650	c. Thyroid, Non-Neoplastic	
651	i. Thyroiditis	AR
652	ii. Nodular / Diffuse Hyperplasia	AR
653	iii. Malformation / Ectopia	AR
654	d. Thyroid, Neoplastic	
655	i. Adenoma	AR
656	ii. Carcinoma	AR
657	1. Follicular	AR
658	2. Papillary	AR
659	3. Medullary, including C-cell Hyperplasia	AR
660	e. Adrenal, Non-Neoplastic	
661	i. Adrenal Cortical Rests	C
662	ii. Hemorrhage	AR
663	iii. Cysts and Pseudocysts	AR
664	iv. Malformation	F
665	v. Hypoplasia	F
666	vi. Cytomegaly	F
667	vii. Disorders of Hormonal Synthesis	
668	(e.g., Congenital Adrenal Hyperplasia)	F
669	f. Adrenal, Neoplastic	
670	i. Neuroblastic Tumor	C
671	ii. Adrenal Cortical Neoplasm	C
672	iii. Pheochromocytoma	C
673	g. Infectious Diseases	C
674	h. Metabolic Disorders (e.g., Adrenoleukodystrophy & Wolman Disease)	F
675		

13. The Hematopoietic and Lymphoid Systems

676	a. Normal Anatomy, Histology, and Development	C
678	b. Non-Neoplastic Disorders of Lymphoid Tissue	
679	i. Infectious Diseases	

680	1. Granulomatous	C
681	2. Viral	C
682	3. Bacterial	C
683	4. Fungal	C
684	5. Parasitic	C
685	ii. Inflammatory Conditions	
686	1. Kikuchi-Fujimoto Disease	AR
687	2. Castleman Disease	AR
688	3. Rosai-Dorfman	AR
689	4. Dermatopathic Lymphadenitis	AR
690	5. Drug-Related	AR
691	6. Macrophage Activation Disorders/ Hemophagocytic Syndrome	AR
692		
693	c. Autoimmune/Immune Dysregulation Disorders	
694	i. Primary	AR
695	ii. Secondary	AR
696	1. Iatrogenic	AR
697	2. Post-Transplant Lymphoproliferative Disorder (PTLD)	AR
698	3. Viral-Associated Conditions, including HIV	AR
699	d. Histiocytic Disorders	
700	i. Langerhans Cell Histiocytosis	AR
701	ii. Non-Langerhans Cell Histiocytosis	AR
702	iii. Rosai Dorfman Disease	AR
703	e. Thymus	
704	i. Thymic Hyperplasia	AR
705	ii. Other Conditions (Involution, Thymoma, Ectopia, Cysts, Aplasia)	AR
706	f. Spleen	
707	i. Lymphoid Hyperplasia	AR
708	ii. Splenic Cysts and Other Non-Hematopoietic Proliferations	AR
709	g. Neoplasms involving the Reticuloendothelial System	
710	i. Mature B-cell Neoplasms	
711	1. Burkitt Lymphoma	C
712	2. Diffuse Large B-cell Lymphoma	C
713	3. Pediatric-Type Follicular Lymphoma	AR
714	ii. Mature T- and NK-cell Neoplasms	
715	1. NK/T-cell Lymphoma, Nasal Type	AR
716	2. Anaplastic Large Cell Lymphoma	AR
717	iii. Hodgkin Lymphoma	
718	1. Lymphocyte Predominant	AR
719	2. Classic	AR
720	iv. Acute Lymphoblastic Leukemia/Lymphoma	
721	1. B-cell	C
722	2. T-cell	C
723	v. Myeloproliferative/Myelodysplasia Disorders	

724	1. CML (BCL-ABL+)	C
725	2. JMML	F
726	3. Myelodysplastic Syndromes	F
727	vi. Acute Myeloid Leukemia / Myeloid Sarcoma	
728	1. Myeloid Proliferations Related to Trisomy 21	AR
729	h. Bone Marrow and Peripheral Blood, Non-Neoplastic	
730	i. Normal Hematopoiesis	C
731	ii. Non-Neoplastic Disorders of RBCs, WBCs, and Platelets	C
732	iii. Storage Disorders	AR
733	iv. Macrophage Activation Disorders / Hemophagocytic Syndrome	AR
734	v. Therapy-Related Effects	AR
735	vi. Infectious Disorders	AR
736	vii. Hb S Disorders	AR
737	viii. Other Hemoglobinopathies	AR
738	ix. Thalassemias	AR
739	x. Platelets Function Disorders	AR
740	xi. Other Constitutional / Hereditary Disorders	AR
741		

14. The Breast

742		
743	a. Normal Anatomy, History, and Development	C
744	b. Developmental Malformations	F
745	c. Benign Lesions	
746	i. Fibrocystic Changes	AR
747	ii. Juvenile Papillomatosis	AR
748	iii. Gynecomastia	AR
749	iv. Fibroadenoma	AR
750	d. Intermediate and Malignant Lesions	
751	i. Phyllodes Tumors	AR
752	ii. Secretory Carcinoma	AR

753

15. The Female Reproductive System

754		
755	a. Normal Anatomy, Histology, and Development	C
756	b. Developmental Anomalies and Malformations	AR
757	c. Infections	
758	i. Viral (e.g., HPV / Condyloma)	C
759	ii. Bacterial	C
760	d. Inflammatory Conditions, Non-Infectious (e.g., Lichen Sclerosus)	AR
761	e. Vascular Disorders	
762	i. Ovarian Torsion	AR
763	f. Lower Genital Tract Neoplasms (e.g., Rhabdomyosarcoma)	AR
764	g. Ovarian Disorders and Neoplasms	
765	i. Benign Cysts	C

766	ii.	Germ Cell Tumors including Gonadoblastoma	AR
767	iii.	Sex Cord Stromal Tumors	
768	1.	Granulosa Cell Tumor	AR
769	2.	Sex Cord Tumor with Annular Tubules	AR
770	3.	Sertoli, Leydig, and Sertoli-Leydig Tumors	AR
771	iv.	Epithelial Neoplasms	
772	1.	Serous and Mucinous Epithelial Tumors	AR
773	2.	Small Cell Carcinoma	AR
774	h.	Uterus and Vagina, Disorders & Neoplasms	AR
775	i.	Fallopian Tube Disorders & Neoplasms	AR

776

777 16. Disorders of Sexual Development (Intersex Disorders)

778	a.	Mixed Gonadal Dysgenesis (45X/46XY)	AR
779	b.	Ovotesticular Syndrome	AR
780	c.	Pure Gonadal Dysgenesis	AR
781	d.	Klinefelter Syndrome	AR
782	e.	Turner Syndrome	AR
783	f.	Androgen Insensitivity Syndrome	AR
784	g.	Congenital Adrenal Hyperplasia	
785		(e.g., 21 Hydroxylase, 11 β Hydroxylase Deficiency)	F
786	h.	Gonadotropin – Leydig Cell Defects	F
787	i.	Steroid Enzymatic Deficiency (Testosterone, Dihydrotestosterone)	F
788	j.	Persistent Müllerian Duct Syndrome	F

789

790 17. The Male Reproductive System

791	a.	Normal Anatomy, Histology and Development	C
792	b.	Testis	
793	i.	Developmental Anomalies and Malformations (e.g., Cryptorchidism)	C
794	ii.	Infections	
795	1.	Bacterial	C
796	2.	Viral	C
797	iii.	Vascular Disorders	
798	1.	Torsion	C
799	2.	Testicular Regression Syndrome	AR
800	iv.	Cysts and Neoplasms	
801	1.	Germ Cell Tumors including Gonadoblastoma	AR
802	2.	Gonadal Stromal Tumors	
803	a)	Sertoli, Leydig, and Sertoli-Leydig Cell Tumors	AR
804	b)	Granulosa Cell Tumor	AR
805	v.	Inflammatory Conditions, Non-Infectious	
806		(e.g., Meconium Periorchitis)	F
807	vi.	Acquired Abnormalities (e.g., Microlithiasis)	F

808	c. Epididymis, Spermatic Cord, and Paratesticular Tissues	
809	i. Congenital and Developmental Disorders	
810	1. Embryonal Remnants	AR
811	2. Heterotopias	AR
812	3. Cystic Fibrosis	AR
813	ii. Acquired Abnormalities	
814	1. Neoplasms (e.g., Rhabdomyosarcoma)	AR
815	d. Penis (e.g., Balanitis)	AR
816	e. Prostate (e.g., Rhabdomyosarcoma)	AR

817

818 **18. Soft Tissue, Peripheral Nerve, and Muscle**

819	a. Normal Anatomy, Histology, and Development	C
820	b. Infectious, Inflammatory, and Autoimmune Disorders (e.g., Myositis)	AR
821	c. Neoplasms and Malformations	
822	i. Fibrous, Fibrohistiocytic, and Myofibroblastic Lesions	
823	1. Nodular Fasciitis	C
824	2. Fibromatosis	C
825	3. Dermatofibrosarcoma Protuberans	C
826	4. Myofibromatosis	AR
827	5. Inflammatory Myofibroblastic Tumor	AR
828	6. Fibrosarcoma including LGFMS & Infantile Fibrosarcoma	AR
829	7. Angiomatoid Fibrous Histiocytoma	AR
830	8. Plexiform Fibrohistiocytic Tumor	AR
831	9. NTRK-Rearranged Spindle Cell Neoplasm	F
832	ii. Peripheral Nerve	
833	1. Neuroma	C
834	2. Neurofibroma and Neurofibromatosis	C
835	3. Schwannoma	C
836	4. Granular Cell Tumor	C
837	5. Perineuroma	AR
838	6. Neurothekeoma	AR
839	7. Malignant Peripheral Nerve Sheath Tumor	AR
840	8. Extra-Adrenal Neuroblastic Tumor	AR
841	iii. Adipocytic Lesions	
842	1. Lipoma	C
843	2. Lipoblastoma	C
844	3. Liposarcoma	C
845	iv. Vascular Tumors and Malformations	
846	1. Vascular and Lymphatic Malformations	AR
847	2. Hemangiomas	AR
848	3. Hemangioendotheliomas	AR
849	4. Angiosarcoma	AR
850	v. Soft Tissue Tumors of Uncertain Derivations	

851	1. Ewing Sarcoma	AR
852	2. Desmoplastic Small Round Cell Tumor	AR
853	3. Clear Cell Sarcoma of Soft Tissue	AR
854	4. Extraskelatal Myxoid Chondrosarcoma	AR
855	5. Mesenchymal Chondrosarcoma	AR
856	6. Synovial Sarcoma	AR
857	7. Epithelioid Sarcoma	AR
858	8. Malignant Rhabdoid Tumor	AR
859	9. Alveolar Soft Part Sarcoma	AR
860	10. Other Sarcomas (e.g., CIC- and BCOR-altered)	AR
861	d. Metabolic, Nutritional, and Degenerative Disorders	
862	(e.g., Mitochondrial Disorders)	F
863		
864	19. The Skeletal System	
865	a. Normal Anatomy, Histology, and Development	C
866	b. Infections (e.g., Osteomyelitis)	C
867	c. Synovial and Joint Disorders (e.g., Tenosynovial Giant Cell Tumor)	AR
868	d. Neoplasms and Malformations of Bone	
869	i. Osteogenic Tumors	
870	1. Osteosarcoma	C
871	2. Benign	AR
872	3. Post-Treatment Osteosarcoma	AR
873	4. Surface Osteosarcoma (Paraosteal, Periosteal)	AR
874	ii. Ewing / Undifferentiated Small Cell Sarcoma	C
875	iii. Fibrous & Fibrohistiocytic Tumors, including Non-Ossifying Fibroma	AR
876	iv. Chondroblastic Tumors	
877	1. Benign	AR
878	2. Malignant	AR
879	v. Primary Lymphoma of Bone	AR
880	vi. Vascular Neoplasms and Malformations	AR
881	vii. Tumors of Undefined Neoplastic Nature	
882	1. Bone Cysts (UBC and ABC)	AR
883	2. Fibrous and Osteofibrous Dysplasia	AR
884	3. Langerhans Cell Histiocytosis	AR
885	e. Skeletal Dysplasia (e.g., Thanatophoric Dysplasia, Osteogenesis Imperfecta)	AR
886		
887	20. Diagnostic/Technical Procedures & Laboratory Management	
888	a. Special Anatomic Procedures	
889	i. Histochemical Stains	AR
890	ii. Enzyme Histochemistry	AR
891	iii. Fluorescence Microscopy	AR
892	iv. Immunohistochemistry	AR

893	v.	Electron Microscopy	AR
894	vi.	Special Dissection Techniques (e.g., Conduction System)	AR
895	vii.	Specimen Radiography	AR
896	viii.	Frozen Section and Touch Preparation	AR
897	ix.	Vascular Injection Studies	F
898	x.	Ciliary Biopsy Evaluation	F
899	b.	Isoimmune Disorders	
900	i.	Hemolytic Disease of the Newborn	AR
901	ii.	Neonatal Alloimmune Thrombocytopenia	AR
902	c.	Prenatal Diagnostic Tests	
903	i.	Amniocentesis	AR
904	ii.	Chorionic Villous Sampling	AR
905	iii.	Quad Screen	AR
906	iv.	Non-Invasive Prenatal Testing (Cell-Free DNA)	AR
907	d.	Cytogenetics	
908	i.	Constitutional Karyotypes	AR
909	ii.	Neoplastic Karyotypes	AR
910	iii.	Constitutional FISH	AR
911	iv.	Neoplastic FISH	AR
912	v.	Comparative Genomic Hybridization (Microarrays)	AR
913	e.	Family Tree / Inheritance Pattern	AR
914	f.	Cytology	
915	i.	Urine	AR
916	ii.	Cerebrospinal Fluid	AR
917	iii.	Bronchoalveolar Lavage	AR
918	iv.	Other Body Fluids	AR
919	v.	Fine Needle Aspiration Cytology	AR
920	vi.	Intraoperative Neuropathology Cytology	AR
921	vii.	Intraoperative Cytology from Other Sites	AR
922	viii.	Infectious Disease Cytology	AR
923	g.	Special Clinical Pathology Tests	
924	i.	Immunologic Tests	
925	1.	Serology for Infectious Diseases	AR
926	2.	Serology for Autoimmune Diseases	AR
927	3.	Serology for Gastrointestinal Diseases (e.g., Celiac, IBD)	AR
928	4.	Cellular Immunodeficiency Diseases	AR
929	5.	Humoral Immunodeficiency Diseases	AR
930	6.	Granulocyte/Phagocytosis Disorders	AR
931	7.	Transplantation	AR
932	ii.	Metabolic Tests	
933	1.	Glucose and Carbohydrates	AR
934	2.	Lipids and Respiratory Chain	AR
935	3.	Urea Cycle	AR
936	4.	Liver Function and Bile Acids	AR

937		5. Porphyrins	AR
938		6. Drug Metabolism Testing	AR
939		7. Tandem Mass Spectroscopy, Principles & Applications	AR
940		8. Collection & Preservation of Tissues for Metabolic Testing	AR
941		9. Amino Acids and Proteins	F
942		10. Organic Acids	F
943		11. Newborn Screening	F
944	iii.	Tumor Markers (e.g., AFP, HCG, Catecholamines)	AR
945	iv.	Endocrine Tests	
946		1. Pituitary Hormones	AR
947		2. Thyroid Hormones	AR
948		3. Parathyroid Hormones	AR
949		4. Adrenal Cortical Hormones	AR
950		5. Adrenal Medullary Hormones	AR
951		6. Pancreatic Hormones	AR
952		7. Vitamin D	AR
953		8. Female Sex Hormones	AR
954		9. Male Sex Hormones	AR
955		10. Endocrine Tumors	AR
956		11. Tests for Congenital Hormone Disorders	
957		(e.g., CAH, Congenital Hyperinsulinemia)	AR
958	v.	Hematology and Bone Marrow Tests	
959		1. Coagulation Tests, including Factor Assays	AR
960		2. Thrombophilia	AR
961		3. Platelet Function Tests	AR
962		4. Hemoglobin Electrophoresis	AR
963		5. Red Cell Enzyme Disorder Tests	AR
964		6. Red Cell Membrane Disorder Test	AR
965		7. Complete Blood Count	AR
966		8. Peripheral Blood Smear Morphology	AR
967		9. Immunophenotyping (Flow Cytometry)	AR
968		a) Non-Neoplastic (e.g., Lymphocyte Subsets)	AR
969		b) Neoplastic (e.g., Leukemia/Lymphoma)	AR
970		10. Nutritional Anemias	AR
971	vi.	Microbiology Tests	
972		1. Stains including fluorescent stains	AR
973		2. Cultures	AR
974		3. Molecular Detection of Bacteria and Mycobacteria	AR
975		4. Molecular Detection of Fungi and Parasites	AR
976		5. Molecular Detection of Viruses	AR
977	vii.	Blood Bank/Transfusion Medicine Tests	
978		1. Blood Groups and Blood Typing	AR
979		2. Antibody Screening and Identification	AR
980		3. Autoimmune Hemolytic Disorders	AR

981		4. Apheresis Indications and Practices	AR
982		5. Transfusion Reactions and Complications	AR
983		6. Intrauterine and Neonatal Transfusion Practices	F
984		7. Child and Adolescent Transfusion Practices	F
985	viii.	CSF	
986		1. Chemistry	AR
987		2. Cell Counts and Morphology	AR
988		3. Immunologic Testing	
989	ix.	Urine Analysis	
990		1. Dip-Stick and Point-of-Card Testing	AR
991		2. Other Chemical Analysis	AR
992		3. Crystals, Casts, and Cells	AR
993	x.	Fecal Tests	AR
994	h.	Molecular Analysis	
995	i.	DNA Amplification Techniques	AR
996	ii.	RNA RT-PCR and Gene Expression Analytic Techniques	AR
997	iii.	Single Nucleotide Polymorphism Chip Arrays	AR
998	iv.	Loss of Heterozygosity Studies	AR
999	v.	Use in Syndromic Diagnosis	AR
1000	vi.	Use in Solid Tumor Diagnosis	AR
1001	vii.	Use in Hematolymphoid Disorders	AR
1002	viii.	Use in Metabolic Disease Diagnosis	F
1003	i.	DNA Ploidy Analysis	AR
1004	j.	Unique Aspects of Pediatric Reference Ranges	AR
1005	i.	Development of Reference Ranges/Assay Validation	AR

1006

1007 **21. Administration & Management**

1008	a.	Quality Control Procedures	AR
1009	b.	Quality Management Programs	AR
1010	c.	Proficiency Testing	AR
1011	d.	Laboratory Design	AR
1012	e.	Strategic Planning	AR
1013	f.	Budgeting and Financial	AR
1014	g.	Compliance Programs and Billing	AR
1015	h.	Confidentiality / HIPAA	AR
1016	i.	Research Content and IRB	AR
1017	j.	Licensure	AR
1018	k.	Accreditation; Different Accrediting Agencies	AR
1019	l.	Personnel	AR
1020	m.	Safety	AR
1021	n.	Informatics	AR

1022

1023	22. Forensic Pathology: Pediatric Issues	
1024	a. Forensic Autopsy Procedures	AR
1025	b. Live Birth versus Stillbirth	AR
1026	c. Sudden Infant Death Syndrome (SIDS / SUDI)	AR
1027	d. Sudden Unexpected Natural Deaths (Not SIDS)	AR
1028	e. Child Abuse and Neglect	AR
1029	i. Munchausen Syndrome; Munchausen Syndrome by Proxy	AR
1030	f. Trauma	AR
1031	i. Subdural and Intracranial Hemorrhages	AR
1032	ii. Skull Fractures	AR
1033	iii. Resuscitation-Associated Trauma	AR
1034	g. Toxicology	
1035	i. Poisoning	AR
1036	ii. Medical Overdose	AR
1037	iii. Adverse Pharmacogenetics / Pharmacogenomics	AR
1038	h. Therapeutic Misadventure / Complications of Treatment	AR