

UPDATED FOR 2019

# NCCPA CONTENT BLUEPRINT CHECKLIST 2019

## Medical Content Categories

CARDIOLOGY (13%) .....	0
DERMATOLOGY (5%) .....	2
ENDOCRINE (7%).....	4
EYES, EARS, NOSE, AND THROAT (7%).....	5
GASTROENTEROLOGY/NUTRITION (9%).....	7
GENITOURINARY (MALE AND FEMALE) (5%).....	9
HEMATOLOGIC (5%) .....	10
INFECTIOUS DISEASE (6%) .....	11
MUSCULOSKELETAL (8%).....	12
NEUROLOGIC (7%) .....	13
PSYCHIATRY/BEHAVIORAL SCIENCE (6%) .....	14
PULMONARY (10%).....	15
RENAL (5%) .....	16
REPRODUCTIVE (MALE AND FEMALE) (7%).....	17

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## Content Blueprint for the Physician Assistant National Certifying Examination (PANCE) (effective beginning January 2019 for all PANCE administrations)

The PANCE content blueprint provides information on how exam questions are allocated to the different medical content and task categories that have been deemed important for entry-level practice as a certified physician assistant.

These exam specifications are based on the results of the most recent profession-wide practice analysis. The examples provided for each medical content and task category are indicative of the types of information that will be included on the exam. It is not possible to include all topics on a single exam, and it may be possible that some questions on the exam cover content that is not listed in the examples.

\*Medical content comprises 95% of the exam. All medical content questions are also coded to one of the task areas, with the exception of the professional practice task category. Questions related to professional practice issues comprise 5% of the exam. In addition, up to 20% of the exam may be related to general surgical topics. The specific percentage allocations may vary slightly on exams.

<b>Medical Content Categories Percentage*</b>	
Cardiovascular System	13%
Dermatologic System	5%
Endocrine System	7%
Eyes, Ears, Nose, and Throat	7%
Gastrointestinal System/Nutrition	9%
Genitourinary System (Male and Female)	5%
Hematologic System	5%
Infectious Diseases	6%
Musculoskeletal System	8%
Neurologic System	7%
Psychiatry/Behavioral Science	6%
Pulmonary System	10%
Renal System	5%
Reproductive System (Male and Female)	7%

<b>Task Categories Percentage*</b>	
History Taking and Performing Physical Examination	17%
Using Diagnostic and Laboratory Studies	12%
Formulating Most Likely Diagnosis	18%
Managing Patients	
Health Maintenance, Patient Education, and Preventive Measures	10%
Clinical Intervention	14%
Pharmaceutical Therapeutics	14%
Applying Basic Scientific Concepts	10%
Professional Practice	5%

	<b>CARDIOLOGY (13%)</b>	
	<b>Cardiomyopathy</b>	
	<a href="#">Dilated</a>	
	<a href="#">Hypertrophic</a>	
	<a href="#">Restrictive</a>	
	<b>Conduction Disorders</b>	
	<a href="#">Atrial fibrillation/flutter</a>	
	<a href="#">Atrioventricular block</a>	
	<a href="#">Bundle branch block</a>	
	<a href="#">Paroxysmal supraventricular tachycardia</a>	
	<a href="#">Premature beats</a>	
	<a href="#">Sick sinus syndrome</a>	
	Sinus arrhythmia	New
	<a href="#">Torsades de pointes</a>	
	<a href="#">Ventricular fibrillation</a>	
	<a href="#">Ventricular tachycardia</a>	
	<b>Congenital Heart Disease</b>	
	<a href="#">Atrial septal defect</a>	
	<a href="#">Coarctation of aorta</a>	
	<a href="#">Patent ductus arteriosus</a>	
	<a href="#">Tetralogy of Fallot</a>	
	<a href="#">Ventricular septal defect</a>	
	<b>Coronary artery disease</b>	Renamed
	<a href="#">Acute myocardial infarction</a>	
	<ul style="list-style-type: none"> <li><a href="#">Non-ST-segment elevation</a></li> <li><a href="#">ST-segment</a></li> </ul>	
	<a href="#">Angina pectoris</a>	
	<ul style="list-style-type: none"> <li><a href="#">Prinzmetal variant</a></li> <li><a href="#">Stable</a></li> <li><a href="#">Unstable</a></li> </ul>	
	<b>Heart Failure</b>	

	<b>Hypertension</b>	
	<a href="#">Essential hypertension</a>	Renamed
	<a href="#">Hypertensive emergencies</a>	
	<a href="#">Secondary hypertension</a>	
	<b>Hypotension</b>	
	<a href="#">Cardiogenic shock</a>	
	<a href="#">Orthostatic hypotension</a>	
	Vasovagal hypotension	
	<b>Lipid disorders</b>	Moved
	<a href="#">Hypercholesterolemia</a>	Moved
	<a href="#">Hypertriglyceridemia</a>	Moved
	<b>Vascular Disease</b>	
	<b>Traumatic, infectious, and inflammatory heart conditions</b>	New
	<a href="#">Acute and subacute bacterial endocarditis</a>	
	<a href="#">Acute pericarditis</a>	
	<a href="#">Cardiac tamponade</a>	
	<a href="#">Pericardial effusion</a>	
	<b>Valvular Disorders</b>	
	Aortic	
	Mitral	
	Pulmonary	
	Tricuspid	
	<b>Vascular disease</b>	
	<a href="#">Aortic aneurysm/dissection</a>	
	<a href="#">Arterial embolism/thrombosis</a>	
	<a href="#">Giant cell arteritis</a>	
	<a href="#">Peripheral artery disease</a>	
	<a href="#">Phlebitis/thrombophlebitis</a>	
	<a href="#">Varicose veins</a>	
	<a href="#">Venous insufficiency</a>	
	<a href="#">Venous thrombosis</a>	
	<b>Cardiology Exam</b>	

**Cardiology updates and changes**

Percentage of exam decreased from 16% to 13%.

- [Other Forms of Heart Disease](#)
- [Aortic stenosis](#)
- [Aortic regurgitation](#)
- [Mitral stenosis](#)
- [Mitral regurgitation](#)
- [Mitral valve prolapse](#)
- [Tricuspid stenosis](#)
- [Tricuspid regurgitation](#)
- [Pulmonary stenosis](#)
- [Pulmonary regurgitation](#)

	<b>DERMATOLOGY (5%)</b>	
	<b>Acneiform eruptions (needs renaming)</b>	
	<a href="#">Acne vulgaris</a>	
	Folliculitis	New
	<a href="#">Rosacea</a>	
	<b>Desquamation</b>	
	<a href="#">Erythema multiforme</a>	
	<a href="#">Stevens-Johnson syndrome</a>	
	<a href="#">Toxic epidermal necrolysis</a>	
	<b>Diseases/disorders of the hair and Nails</b>	
	<a href="#">Alopecia</a>	
	<a href="#">Onychomycosis</a>	
	<a href="#">Paronychia</a>	
	<b>Envenomation's and arthropod bite reactions</b>	New
	<b>Exanthems</b>	Changed
	<a href="#">Erythema infectiosum (fifth disease)</a>	
	Hand-foot-and-mouth disease	New
	<a href="#">Measles</a>	
	<b>Infectious diseases</b>	New
	<b>Bacterial Infections</b>	
	<ul style="list-style-type: none"> <li><a href="#">Cellulitis</a></li> <li><a href="#">Erysipelas</a></li> <li><a href="#">Impetigo</a></li> </ul>	
	<b>Fungal Infections</b>	
	<ul style="list-style-type: none"> <li><a href="#">Candidiasis</a></li> <li><a href="#">Dermatophyte infections</a></li> </ul>	
	Parasitic	New
	<ul style="list-style-type: none"> <li><a href="#">Lice</a></li> <li><a href="#">Scabies</a></li> </ul>	
	<a href="#">Viral Diseases</a>	

	<ul style="list-style-type: none"> <li><a href="#">Condyloma acuminatum</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">Herpes simplex</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">Molluscum contagiosum</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">Varicella-zoster virus infections</a></li> </ul>	
	<ul style="list-style-type: none"> <li><a href="#">Verrucae</a></li> </ul>	Updated
	<b>Keratotic disorders</b>	New
	<a href="#">Actinic keratosis</a>	
	<a href="#">Seborrheic keratosis</a>	
	<b>Neoplasms</b>	
	Benign	
	Malignant	
	Premalignant	
	<b>Papulosquamous Diseases</b>	
	Contact <a href="#">Dermatitis</a>	Updated
	<a href="#">Eczema</a>	Updated
	<a href="#">Drug eruptions</a>	
	<a href="#">Lichen planus</a>	
	<a href="#">Pityriasis rosea</a>	
	<a href="#">Psoriasis</a>	
	<b>Pigment disorders</b>	New
	<a href="#">Melasma</a>	
	<a href="#">Vitiligo</a>	
	<b>Skin integrity</b>	New
	<a href="#">Burns</a>	
	Lacerations	New
	<a href="#">Pressure ulcers</a>	
	Stasis dermatitis	
	<b>Vascular abnormalities</b>	New
	Cherry angioma	New
	Telangiectasia	New
	<b>Vesiculobullous disease</b>	New
	<a href="#">Pemphigoid</a>	
	Pemphigus	New

	<b><u>Other Dermatological Conditions</u></b>	
	<a href="#">Acanthosis nigricans</a>	
	<a href="#">Hidradenitis suppurativa</a>	
	<a href="#">Lipomas/epithelial inclusion cysts</a>	
	Photosensitive reactions	New
	<a href="#">Pilonidal disease</a>	
	<a href="#">Urticaria</a>	
	<b><a href="#">Dermatology Exam</a></b>	

### **Dermatology updates or changes**

Percentage remains the same.

- [Basal cell carcinoma](#)
- [Kaposi sarcoma](#)
- [Melanoma](#)
- [Squamous cell carcinoma](#)
- [Dyshidrosis](#)
- [Lichen simplex chronicus](#)

ENDOCRINE (7%)		
<b>Adrenal disorders</b>		Changed
<a href="#">Primary adrenal insufficiency</a>		Renamed and update
<a href="#">Cushing syndrome</a>		
<b>Diabetes Mellitus</b>		
<a href="#">Type 1</a>		
<a href="#">Type 2</a>		
<b>Hypogonadism</b>		New
<b>Neoplasms</b>		Changed
Multiple endocrine neoplasia		
Neoplastic syndrome		
Primary endocrine malignancy		
Syndrome of inappropriate antidiuretic hormone secretion (SIADH)		
<b>Parathyroid disorders</b>		New
<a href="#">Hyperparathyroidism</a>		
<a href="#">Hypoparathyroidism</a>		
<b>Diseases of the Pituitary Gland</b>		
<a href="#">Acromegaly/gigantism</a>		
<a href="#">Diabetes insipidus</a>		
<a href="#">Dwarfism</a>		
<a href="#">Pituitary adenoma</a>		
<b>Thyroid disorders</b>		
<a href="#">Hyperthyroidism</a>		
<a href="#">Hypothyroidism</a>		
<a href="#">Thyroiditis</a>		
<b>Endocrinology Exam</b>		

Percentage increased by 1%

- [Neoplastic disease](#)
- [Lipid Disorders](#) (moved to cardio)
  - [Hypercholesterolemia](#)
  - [Hypertriglyceridemia](#)

Endocrinology updates and changes

EYES, EARS, NOSE, AND THROAT (7%)		
<b>Eye Disorders</b>		Changed
Conjunctival disorders		Create
<ul style="list-style-type: none"> <li>• <a href="#">Conjunctivitis</a></li> </ul>		
Corneal disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Cataract</a></li> <li>• <a href="#">Corneal ulcer</a></li> <li>• Infectious</li> <li>• Keratitis</li> <li>• <a href="#">Pterygium</a></li> </ul>		
Lacrimal disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Dacryoadenitis</a></li> </ul>		
Lid disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Blepharitis</a></li> <li>• <a href="#">Chalazion</a></li> <li>• <a href="#">Ectropion</a></li> <li>• <a href="#">Entropion</a></li> <li>• <a href="#">Hordeolum</a></li> </ul>		
Neuro-ophthalmologic disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Nystagmus</a></li> <li>• <a href="#">Optic neuritis</a></li> <li>• <a href="#">Papilledema</a></li> </ul>		
Orbital disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Orbital cellulitis</a></li> </ul>		
Retinal disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Macular degeneration</a></li> <li>• <a href="#">Retinal detachment</a></li> <li>• <a href="#">Retinopathy</a></li> </ul>		
Traumatic disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Blowout fracture</a></li> <li>• <a href="#">Corneal abrasion</a></li> <li>• Globe rupture</li> </ul>		New

<ul style="list-style-type: none"> <li>• <a href="#">Hyphema</a></li> </ul>		
Vascular disorders		New
<ul style="list-style-type: none"> <li>• <a href="#">Retinal vascular occlusion</a></li> </ul>		
Vision abnormalities		New
<ul style="list-style-type: none"> <li>• Amaurosis fugax</li> <li>• Amblyopia</li> <li>• <a href="#">Glaucoma</a></li> <li>• Scleritis</li> <li>• <a href="#">Strabismus</a></li> </ul>		
<b>Ear Disorders</b>		
External ear		New
<ul style="list-style-type: none"> <li>• Cerumen impaction</li> <li>• <a href="#">Otitis externa</a></li> <li>• Trauma</li> </ul>		
Inner ear		New
<ul style="list-style-type: none"> <li>• <a href="#">Acoustic neuroma</a></li> <li>• <a href="#">Barotrauma</a></li> <li>• <a href="#">Dysfunction of eustachian tube</a></li> <li>• <a href="#">Labyrinthitis</a></li> <li>• <a href="#">Vertigo</a></li> </ul>		
Middle ear		New
<ul style="list-style-type: none"> <li>• <a href="#">Cholesteatoma</a></li> <li>• <a href="#">Otitis media</a></li> <li>• <a href="#">Tympanic membrane perforation</a></li> </ul>		
<a href="#">Hearing impairment</a>		
Other abnormalities of the ear		New
<a href="#">Mastoiditis</a>		
<a href="#">Meniere disease</a>		
<a href="#">Tinnitus</a>		
<b>Foreign bodies</b>		combine
<b>Neoplasms</b>		
<a href="#">Benign</a>		
<a href="#">Malignant</a>		



	<b><u>Nose/Sinus Disorders</u></b>	
	<a href="#">Epistaxis</a>	
	<a href="#">Nasal polyps</a>	
	<a href="#">Rhinitis</a>	Renamed
	<a href="#">Sinusitis</a>	Renamed
	Trauma	
	<b><u>Oropharyngeal disorders</u></b>	Renamed
	<a href="#">Diseases of the teeth/gums</a>	
	Infectious/inflammatory disorders	New
	<ul style="list-style-type: none"> <li>• <a href="#">Aphthous ulcers</a></li> </ul>	
	<ul style="list-style-type: none"> <li>• <a href="#">Candidiasis</a></li> </ul>	renamed
	<ul style="list-style-type: none"> <li>• Deep neck infection</li> </ul>	new
	<ul style="list-style-type: none"> <li>• <a href="#">Epiglottitis</a></li> </ul>	
	<ul style="list-style-type: none"> <li>• <a href="#">Herpes simplex</a></li> </ul>	Renamed
	<ul style="list-style-type: none"> <li>• <a href="#">Laryngitis</a></li> </ul>	
	<ul style="list-style-type: none"> <li>• <a href="#">Peritonsillar abscess</a></li> </ul>	
	<ul style="list-style-type: none"> <li>• <a href="#">Pharyngitis</a></li> </ul>	Renamed
	Salivary disorders	New
	<ul style="list-style-type: none"> <li>• <a href="#">Sialadenitis</a></li> </ul>	
	<ul style="list-style-type: none"> <li>• <a href="#">Parotitis</a></li> </ul>	
	Trauma	New
	Other oropharyngeal disorders	New
	<ul style="list-style-type: none"> <li>• <a href="#">Leukoplakia</a></li> </ul>	
	<b><u>EENT Exam</u></b>	

### EENT updates and changes

Percentage decreased by 2%

- [Hematoma of external ear](#)
- [Foreign body nose](#)
- [Benign and malignant neoplasms](#)
- [Ocular foreign bodies](#)

<b>GASTROENTEROLOGY/NUTRITION (9%)</b>		
<b>Biliary disorders</b>		Update
<a href="#">Acute/chronic cholecystitis</a>		
<a href="#">Cholangitis</a>		
<a href="#">Cholelithiasis</a>		
<b>Colorectal disorders</b>		
<a href="#">Abscess/fistula</a>		
<a href="#">Anal fissure</a>		
<a href="#">Constipation</a>		
<a href="#">Diverticulitis</a>		
<a href="#">Fecal impaction</a>		
<a href="#">Hemorrhoids</a>		
<a href="#">Inflammatory bowel disease</a>		
<a href="#">Irritable bowel syndrome</a>		
<a href="#">Ischemic bowel disease</a>		
<a href="#">Obstruction</a>		Update
<a href="#">Polyps</a>		
<a href="#">Toxic megacolon</a>		
<b>Esophageal disorders</b>		
<a href="#">Esophagitis</a>		
<a href="#">Gastroesophageal reflux disease</a>		
<a href="#">Mallory-Weiss tear</a>		
<a href="#">Motility disorders</a>		
<a href="#">Strictures</a>		
<a href="#">Varices</a>		
<b>Food allergies and food sensitivities</b>		New
<a href="#">Gluten intolerance</a>		New
<a href="#">Lactose intolerance</a>		
Nut allergies		
<b>Gastric disorders</b>		Update
<a href="#">Gastritis</a>		
<a href="#">Peptic ulcer disease</a>		

<a href="#">Pyloric stenosis</a>		
<b>Hepatic disorders</b>		
<a href="#">Acute/chronic hepatitis</a>		
<a href="#">Cirrhosis</a>		
<b>Hernia</b>		
<b>Infectious Diarrhea</b>		Update
<b>Ingestion of toxic substances or foreign bodies</b>		New
<b>Metabolic Disorders</b>		
G6PD deficiency		
Paget disease		
Phenylketonuria		
Rickets		
<b>Neoplasms</b>		New
Benign		New
Malignant		New
<b>Vitamin and Nutritional Deficiencies</b>		
Hypervitaminosis/hypovitaminosis		New
<a href="#">Obesity</a>		Update
<b>Pancreas</b>		
<a href="#">Acute/chronic pancreatitis</a>		
<b>Small Intestine/Colon</b>		
<a href="#">Appendicitis</a>		
<a href="#">Celiac disease</a>		
<a href="#">Intussusception</a>		
<a href="#">Obstruction</a>		SBO
<a href="#">Polyps</a>		SBO
<b>GI and Nutrition Exam</b>		

### GI and nutrition updates and changes

Percentage decreased by 1%

- Rectum section now combined
- Rectal [Neoplasms](#)
- Small intestine [Neoplasms](#)

## 2019 NCCPA CONTENT BLUEPRINT CHECKLIST

- [Esophageal neoplasms](#)
- Pancreatic [Neoplasms](#)
- Hepatic [Neoplasms](#)
- Gastric [Neoplasms](#)

<b>GENITOURINARY (MALE AND FEMALE) (5%)</b>		
<b>Bladder disorders</b>		New
<a href="#">Incontinence</a>		
Overactive bladder		New
Prolapse		New
<b>Congenital and acquired abnormalities (needs update)</b>		
<a href="#">Cryptorchidism</a>		
Peyronie disease		New
Trauma		New
Vesicoureteral reflux		New
<b>Human sexuality</b>		New
<b>Infectious disorders</b>		
<a href="#">Cystitis</a>		
<a href="#">Epididymitis</a>		
<a href="#">Orchitis</a>		
<a href="#">Prostatitis</a>		
<a href="#">Pyelonephritis</a>		
<a href="#">Urethritis</a>		
<b>Neoplasms</b>		
<a href="#">Bladder cancer</a>		
Penile cancer		
<a href="#">Prostate cancer</a>		
<a href="#">Testicular cancer</a>		
<b>Nephrolithiasis/uroolithiasis</b>		
<b>Penile disorders</b>		New
<a href="#">Erectile dysfunction</a>		
Hypospadias/epispadias		New
<a href="#">Paraphimosis/phimosis</a>		
<b>Prostate disorders</b>		New
<a href="#">Benign prostatic hyperplasia</a>		
<b>Testicular disorders</b>		New

<a href="#">Hydrocele/varicocele</a>		
<a href="#">Testicular torsion</a>		
<b>Urethral disorders</b>		New
Prolapse		New
Stricture		New
<b><a href="#">Genitourinary Exam</a></b>		

### GU updates and changes

Percentage decreased by 5%

- All previous lessons still included or moved to the new renal system with new categories and topics.

<b>HEMATOLOGIC (5%)</b>		
<b>Autoimmune disorders</b>		New
<b>Coagulation Disorders</b>		
<a href="#">Clotting factor disorders</a>		
<a href="#">Thrombocytopenia's</a>		
<b>Cytopenias</b>		New
Anemia		New
Leukopenia		New
<b>Cytoses</b>		New
Polycythemia		New
Thrombocytosis		New
<b>Hemoglobinopathies</b>		New
Hemochromatosis		
<a href="#">Sickle cell disease</a>		Renamed
<a href="#">Thalassemia</a>		
<b>Immunologic disorders</b>		New
Transfusion reaction		New
<b>Neoplasms, premalignancies, and malignancies</b>		Updated
<a href="#">Acute/chronic lymphocytic leukemia</a>		
<a href="#">Acute/chronic myelogenous leukemia</a>		
<a href="#">Lymphoma</a>		
<a href="#">Multiple myeloma</a>		
Myelodysplasia		Create
<b>Hematology Exam</b>		

- [Aplastic anemia](#)
- [Folate deficiency](#)
- [G6PD deficiency](#)
- [Hemolytic anemia](#)
- [Iron deficiency](#)
- [Vitamin B12 deficiency](#)
- [Malignancies](#)

### Hematology updates and changes

Percentage increased by 2%

- [Hypercoagulable states](#)
- [Idiopathic thrombocytopenic purpura](#)
- [Thrombotic thrombocytopenic purpura](#)
- [Anemias](#)
- [Anemia of chronic disease](#)

INFECTIOUS DISEASE (6%)		
<b>Bacterial Disease</b>		
<a href="#">Botulism</a>		
<a href="#">Chlamydia</a>		
<a href="#">Cholera</a>		
<a href="#">Diphtheria</a>		
<a href="#">Gonococcal infections</a>		
Methicillin-resistant Staphylococcus aureus infection		New
<a href="#">Rheumatic fever</a>		Renamed
<a href="#">Rocky Mountain spotted fever</a>		
<a href="#">Salmonellosis</a>		
<a href="#">Shigellosis</a>		
<a href="#">Tetanus</a>		
<b>Fungal Disease</b>		
<a href="#">Candidiasis</a>		
<a href="#">Cryptococcosis</a>		
<a href="#">Histoplasmosis</a>		
<a href="#">Pneumocystis</a>		
<b>Mycobacterial Disease</b>		
<a href="#">Atypical mycobacterial disease</a>		
<a href="#">Tuberculosis</a>		
<b>Parasitic Disease</b>		
<a href="#">Helminth infestations</a>		
<a href="#">Malaria</a>		
<a href="#">Pinworms</a>		
<a href="#">Toxoplasmosis</a>		
Trichomoniasis		Remix
<b>Prenatal transmission of disorders</b>		
Congenital varicella		New
Herpes simplex virus		New
Human papillomavirus		New

	Zika virus	New
	<b>Sepsis/systemic inflammatory response syndrome</b>	New
	<b>Spirochetal Disease</b>	
	<a href="#">Lyme disease</a>	
	<a href="#">Syphilis</a>	
	<b>Viral Disease</b>	
	<a href="#">Cytomegalovirus infections</a>	
	<a href="#">Epstein-Barr virus infections</a>	
	<a href="#">Erythema infectiosum</a>	
	<a href="#">Herpes simplex virus infections</a>	
	<a href="#">HIV infection</a>	
	<a href="#">Human papillomavirus infections</a>	
	<a href="#">Influenza</a>	
	<a href="#">Measles</a>	
	<a href="#">Mumps</a>	
	<a href="#">Rabies</a>	
	<a href="#">Roseola</a>	
	<a href="#">Rubella</a>	
	<a href="#">Varicella-zoster virus infections</a>	
	Infectious Disease Exam (coming soon)	Create

### Hematology updates and changes

Percentage of exam doubled from 3%-6%.

- Everything was included plus the addition of new lessons.

<b>MUSCULOSKELETAL (8%)</b>		
<b>Chest/rib disorders</b>		New
Deformities		
Fractures		
<b>Compartment Syndrome</b>		
<b>Degenerative Diseases</b>		New
<a href="#">Osteoarthritis</a>		
<b>Infectious Diseases</b>		
<a href="#">Osteomyelitis</a>		Rename
<a href="#">Septic arthritis</a>		
Lower extremity disorders		
<a href="#">Avascular necrosis</a>		
<a href="#">Development dysplasia</a>		
<a href="#">Fractures/dislocations</a>		Hip
<a href="#">Slipped capital femoral epiphysis</a>		
Soft-tissue injuries		Combined
<b>Neoplasms</b>		New
Benign		New
Malignant		New
<b>Rheumatologic Conditions</b>		
<a href="#">Fibromyalgia</a>		
<a href="#">Gout/pseudogout</a>		
<a href="#">Juvenile rheumatoid arthritis</a>		
<a href="#">Osteoporosis</a>		
<a href="#">Polyarteritis nodosa</a>		
<a href="#">Polymyalgia rheumatica</a>		
<a href="#">Polymyositis</a>		
<a href="#">Reactive arthritis (Reiter syndrome)</a>		
<a href="#">Rheumatoid arthritis</a>		
<a href="#">Sjögren syndrome</a>		
<a href="#">Systemic lupus erythematosus</a>		

<a href="#">Systemic sclerosis (Scleroderma)</a>		
<b>Spinal disorders</b>		Renamed
<a href="#">Ankylosing spondylitis</a>		
<a href="#">Cauda equine syndrome</a>		
<a href="#">Herniated nucleus pulposus</a>		
<a href="#">Kyphosis</a>		
<a href="#">Scoliosis</a>		
<a href="#">Spinal stenosis</a>		
<a href="#">Sprain/strain</a>		
Thoracic outlet syndrome		New
Torticollis		New
Trauma		New
<b>Upper extremity disorders</b>		New
Fractures/dislocations		New
Soft-tissue injuries		New
<b>Musculoskeletal Exam</b>		

### Musculoskeletal updates and changes

Percentage decreased by 2%

- [Lower back pain](#)
- [Disorders of the Hip,](#)
- [Disorders of the Shoulder,](#)
- [Fractures/dislocations](#)
- [Soft tissue injuries](#)
- [Disorders of the Forearm/Wrist/Hand](#)
- [Fractures/dislocations](#)
- [Soft tissue injuries](#)
- [Disorders of the Knee](#)
- [Fractures/dislocations](#)
- [Osgood-Schlatter disease](#)
- [Soft tissue injuries](#)
- [Disorders of the Ankle/Foot](#)
- [Fractures/dislocations](#)
- [Soft tissue injuries](#)
- [Neoplastic Disease](#)
- [Bone cysts/tumors](#)

- [Ganglion](#)

<b>NEUROLOGIC (7%)</b>		
<b>Closed head injuries</b>		New
<a href="#">Concussion</a>		
<a href="#">Postconcussion syndrome</a>		
Traumatic brain injury		New
<b>Cranial nerve palsies</b>		New
<b>Encephalopathic disorders</b>		New
<b>Headaches</b>		
<a href="#">Cluster headache</a>		
<a href="#">Migraine</a>		
<a href="#">Tension headache</a>		
<b>Infectious Disorders</b>		
<a href="#">Encephalitis</a>		
<a href="#">Meningitis</a>		
<b>Movement Disorders</b>		
<a href="#">Essential tremor</a>		
<a href="#">Huntington disease</a>		
<a href="#">Parkinson disease</a>		
<a href="#">Tourette disorder</a>		Moved
<b>Neoplasms</b>		New
Benign		New
Malignant		New
<b>Neurocognitive disorders</b>		New
<a href="#">Delirium</a>		
Major/mild neurocognitive disorders		New
<b>Neuromuscular disorders</b>		New
<a href="#">Cerebral palsy</a>		
<a href="#">Multiple sclerosis</a>		
<a href="#">Myasthenia gravis</a>		New
<b>Peripheral Nerve disorders</b>		New
Carpal tunnel syndrome		New

	<a href="#">Complex regional pain syndrome</a>	
	<a href="#">Guillain-Barré syndrome</a>	
	<a href="#">Peripheral neuropathies</a>	
	<b>Seizure disorders</b>	Moved
	Focal seizures	New
	Generalized seizures	New
	<a href="#">Status epilepticus</a>	
	<b>Vascular Disorders</b>	
	Arteriovenous malformation	New
	<a href="#">Cerebral aneurysm</a>	
	<a href="#">Intracranial hemorrhage</a>	
	<a href="#">Stroke</a>	
	<a href="#">Syncope</a>	
	<a href="#">Transient ischemic attack</a>	
	<b>Other Neurologic Disorders</b>	
	<a href="#">Altered level of consciousness</a>	
	<a href="#">Dementias</a>	
	<b>Neurologic Exam</b>	

### Neurological updates and changes

Percentage increased by 1%

- [Other Neurologic Disorders](#)
- [Altered level of consciousness](#)
- [Dementias](#)



<b>PSYCHIATRY/BEHAVIORAL SCIENCE (6%)</b>		
Abuse and neglect		
<a href="#">Child abuse</a>	Combined with elder	
<a href="#">Domestic violence</a>		
Elder abuse	Combined	
Sexual abuse		
<b>Anxiety Disorders</b>		
<a href="#">Generalized anxiety disorder</a>		
<a href="#">Panic disorder</a>		
<a href="#">Phobias</a>		
<b>Bipolar and related disorders</b>	Moved and revised	
<b>Depressive disorders</b>		
<a href="#">Major depressive disorder</a>	Updated	
Persistent depressive disorder		
Premenstrual dysphoric disorder		
<a href="#">Suicidal homicidal behaviors</a>		
<b>Disruptive, impulse-control, and conduct disorders</b>	New	
<a href="#">Conduct disorders</a>		
<b>Dissociative disorders</b>	New	
<b>Feeding and eating disorders</b>	Updated	
<b>Human sexuality</b>	New	
<b>Obsessive-compulsive and related disorders</b>	New	
<b>Neurodevelopmental disorders</b>	New	
<a href="#">Attention-Deficit/Hyperactivity Disorder</a>		
<a href="#">Autism spectrum disorder</a>		

<b>Personality Disorders</b>		
<b>Schizophrenia and other psychotic disorders</b>	Updated	
<b>Sleep-wake disorders</b>	New	
Narcolepsy		
Parasomnias		
<b>Somatic symptom and related disorders</b>		
<b>Substance-related and addictive disorders</b>		
<b>Trauma- and stressor-related disorders</b>	New	
<a href="#">Adjustment disorder</a>		
<a href="#">Post-traumatic stress disorder</a>		
<b>Psychiatry Exam</b>		

### Psychiatry updates and changes

Percentage remains the same

- [Anorexia nervosa](#)
- [Bulimia nervosa](#)
- [Obesity](#)
- [Mood Disorders](#)
- [Dysthymic](#)
- [Psychoses](#)
- [Delusional disorder](#)
- [Schizophrenia](#)
- [Abuse](#)
- [Dependence](#)
- [Withdrawal](#)
- [Other Behavior/Emotional Disorders](#)
- [Acute reaction to stress](#)
- [Child/elder abuse](#)
- [Grief reaction](#)

	<b>PULMONARY (10%)</b>	
	<b>Chronic obstructive Pulmonary Disease</b>	Renamed
	<a href="#">Chronic bronchitis</a>	
	<a href="#">Emphysema</a>	
	<b>Infectious Disorders</b>	
	<a href="#">Acute bronchiolitis</a>	
	<a href="#">Acute bronchitis</a>	
	<a href="#">Acute epiglottitis</a>	
	<a href="#">Croup</a>	
	<a href="#">Influenza</a>	
	<a href="#">Pertussis</a>	
	<a href="#">Pneumonias</a>	
	<ul style="list-style-type: none"> <li>• <a href="#">Bacterial</a></li> <li>• <a href="#">Fungal</a></li> <li>• <a href="#">HIV-related</a></li> <li>• <a href="#">Viral</a></li> </ul>	
	<a href="#">Respiratory syncytial virus infection</a>	
	<a href="#">Tuberculosis</a>	
	<b>Neoplastic Disease</b>	
	<a href="#">Carcinoid tumors</a>	
	<a href="#">Lung cancer</a>	
	<a href="#">Pulmonary nodules</a>	
	<b>Pleural Diseases</b>	
	<a href="#">Pleural effusion</a>	
	<a href="#">Pneumothorax</a>	
	<b>Pulmonary Circulation</b>	
	<a href="#">Cor pulmonale</a>	
	<a href="#">Pulmonary embolism</a>	
	<a href="#">Pulmonary hypertension</a>	
	<b>Restrictive Pulmonary Disease</b>	
	<a href="#">Idiopathic pulmonary fibrosis</a>	

	<a href="#">Pneumoconiosis</a>	
	<a href="#">Sarcoidosis</a>	
	<b>Sleep apnea/Obesity hypoventilation syndrome</b>	New
	<b>Other Pulmonary Disease</b>	
	<a href="#">Acute respiratory distress syndrome</a>	
	<a href="#">Asthma</a>	
	<a href="#">Cystic fibrosis</a>	
	<a href="#">Foreign body aspiration</a>	
	<a href="#">Hyaline membrane disease</a>	
	<b>Pulmonary Exam</b>	

#### Pulmonary updates and changes

Percentage decreased by 2%

- [Bronchiectasis](#)

RENAL (5%)	NEW
<b>Acute Disorders</b>	
<a href="#">Glomerulonephritis</a>	
<a href="#">Nephrotic syndrome</a>	
<a href="#">Pyelonephritis</a>	
<b>Acute Kidney Injury (Acute renal failure)</b>	
<b>Chronic kidney disease</b>	
<b>Congenital or structural renal disorders</b>	
Horseshoe kidney	
<a href="#">Hydronephrosis</a>	
<a href="#">Polycystic kidney disease</a>	
<a href="#">Renal vascular disease</a>	
<b>End-stage renal disease</b>	
<b>Fluid and Electrolyte Disorders</b>	
<a href="#">Acid-base disorders</a>	
Dehydration	
Hyperkalemia/hypokalemia	
<a href="#">Hypervolemia</a>	
<a href="#">Hypovolemia</a>	
<b>Neoplasms</b>	
<a href="#">Renal cell carcinoma</a>	
<a href="#">Wilms tumor</a>	
<b><a href="#">Genitourinary Exam</a></b>	

New category for 2019 representing 5% of exam.

	<b>REPRODUCTIVE (MALE AND FEMALE) (7%)</b>	
	<b>Disorders of the Breast</b>	
	<a href="#">Abscess</a>	
	<a href="#">Fibroadenoma</a>	
	<a href="#">Fibrocystic disease</a>	
	<a href="#">Galactorrhea</a>	
	<a href="#">Gynecomastia</a>	
	<a href="#">Mastitis</a>	
	<b>Cervical disorders</b>	
	<a href="#">Cervicitis</a>	
	<a href="#">Dysplasia</a>	
	<b>Complicated Pregnancy</b>	
	<a href="#">Abortion</a>	
	<a href="#">Abruptio placentae</a>	
	Breech presentation	New
	<a href="#">Cesarean delivery</a>	
	Cord prolapse	
	<a href="#">Dystocia</a>	
	<a href="#">Ectopic pregnancy</a>	
	<a href="#">Fetal distress</a>	
	<a href="#">Gestational diabetes</a>	
	<a href="#">Gestational trophoblastic disease</a>	
	<a href="#">Hypertension disorders in pregnancy</a>	
	<a href="#">Incompetent cervix</a>	
	<a href="#">Multiple gestation</a>	
	<a href="#">Placenta previa</a>	
	<a href="#">Postpartum hemorrhage</a>	
	<a href="#">Premature rupture of membranes</a>	
	<a href="#">Rh incompatibility</a>	
	<a href="#">Shoulder dystocia</a>	
	<b>Contraceptive Methods</b>	

	<b>Human sexuality</b>	New
	<b>Infertility</b>	
	<b>Menopause</b>	Moved
	<b>Menstrual Disorders</b>	
	<b>Neoplasms of the breast and reproductive tract</b>	New
	Benign	New
	Malignant	New
	<b>Disorders of the Ovary</b>	
	<a href="#">Cysts</a>	
	Polycystic ovarian syndrome	New
	Torsion	New
	<b>Sexually transmitted infections/Pelvic Inflammatory Disease</b>	Updated
	<b>Trauma</b>	
	Physical assault	
	Sexual assault	
	Trauma in pregnancy	
	<b>Uncomplicated Pregnancy</b>	
	<a href="#">Normal labor/delivery</a>	
	Postnatal/postpartum care	New
	<a href="#">Preconception/prenatal care</a>	Renamed
	<b>Uterine disorders</b>	
	<a href="#">Endometriosis</a>	
	<a href="#">Leiomyoma</a>	
	<a href="#">Prolapse</a>	
	<b>Vagina/Vulvar disorders</b>	
	<a href="#">Cystocele</a>	
	<a href="#">Prolapse</a>	
	<a href="#">Rectocele</a>	
	<a href="#">Vaginitis</a>	
	<b>Reproductive Exam</b>	

**Reproductive updates and changes**

Percentage increased by 1%

- [Breast Cancer](#)
- [Cervical Cancer](#)
- [Ovarian neoplasms](#)
- [Endometrial cancer](#)
- [Dysfunctional uterine bleeding](#)
- [Amenorrhea](#)
- [Vulvar vaginal neoplasm](#)
- [Premenstrual syndrome](#)
- [Dysmenorrhea](#)
- [Cesarean section](#)