

(effective 2019 - 2022)

Information on how the blueprint was developed may be accessed using the following link: <u>PANRE Content Blueprint (effective January 2019) - Introduction</u>

The 2023 PANRE / PANRE-LA Blueprint can be found here.

Organized by Level of Assessment

The diseases and disorders that may be covered on PANRE are provided below and are sorted based on the level of assessment. In addition to covering the topics listed below, up to 2% of the questions on PANRE may cover professional practice (legal and ethical) issues. Due to the limited number of questions on PANRE, it is not possible to include all topics on a single exam. The percentage allocations are approximate and may vary slightly with each exam.

Content Area	Percent Allocation*
Cardiovascular System	13%
Dermatologic System	6%
Endocrine System	6%
Eyes, Ears, Nose, and Throat	8%
GastrointestinalSystem/Nutrition	11%
Genitourinary System	5%
Hematologic System	4%
Infectious Diseases	6%
Musculoskeletal System	9%
Neurologic System	7%
Psychiatry/Behavioral Science	5%
Pulmonary System	10%
Renal System	3%
Reproductive System	7%

* Percentages may vary slightly with each exam.

The content blueprint arranged by content area instead of assessment level may be accessed using the following link:

PANRE Content Blueprint (effective January 2019) - organized by content area

Level 1 Diseases and Disorders

The following diseases and disorders may be assessed at Level 1 on the PANRE and the Pilot Alternative to PANRE. Level 1 is defined as follows:

Level 1: Recognize most likely diagnosis using signs, symptoms, and risks; refer appropriately.

Cardiovascular System - Level 1

Abdominal aortic aneurysm Acute/subacute bacterial endocarditis Aortic stenosis Atrioventricular block Bundle branch block Cardiogenic shock Diastolic heart failure Hypertrophic cardiomyopathy

Iliac artery occlusion Mitral regurgitation Mitral valve prolapse Pericardial effusion Prinzmetal variant angina Sick sinus syndrome Thoracic aortic aneurysm

Dermatologic System – Level 1

Basal cell carcinoma Erythema multiforme Melanoma Squamous cell carcinoma Toxic epidermal necrolysis, Stevens-Johnson syndrome

Endocrine System – Level 1

Benign thyroid nodules Cushing syndrome Diabetes insipidus Hyperparathyroidism

Hypoparathyroidism Primary adrenal insufficiency Thyroid cancer

Eyes, Ears, Nose, and Throat – Level 1

Cataract Corneal ulcer Glaucoma Hearing loss Hyphema Labyrinthitis Nystagmus Oral leukoplakia Orbital blowout fracture Papilledema Parotitis Retinal detachment Tinnitus

Gastrointestinal System/Nutrition - Level 1

Acute hepatitis Anal abscess/fistula Celiac disease Cholangitis Chronic hepatitis Cirrhosis Colon cancer Esophageal varices Ingestion of caustic substance Intussusception Ischemic bowel disease Large-bowel obstruction Mallory-Weiss tear Pyloric stenosis Toxic megacolon

Genitourinary System – Level 1

Bladder cancer Fecal incontinence Hydrocele/ varicocele Paraphimosis/phimosis Prostate cancer Testicular cancer

Hematologic System – Level 1

Acute/chroniclymphocytic leukemia Anemia of chronic disease Factor V Leiden hypercoagulability Hemolytic anemia Hodgkin lymphoma Hypocoagulable states Non-Hodgkin lymphoma Sickle cell anemia Thrombotic thrombocytopenic purpura

Infectious Diseases - Level 1

HIV infection Rabies Tetanus

Musculoskeletal System – Level 1

Acute/chronic osteomyelitis Avascular necrosis Cauda equina syndrome Compartment syndrome Fractures and dislocations: knee/patella,ankle/ foot, forearm/wrist/hand,shoulder,hip, spine Kyphosis Rotator cuff tear Scoliosis Slipped capital femoral epiphysis Spinal disk herniation Systemic lupus erythematosus

Neurologic System – Level 1

Cerebral aneurysm Delirium Encephalitis Guillain-Barré syndrome Major neurocognitive disorder/dementia

Psychiatry/Behavioral Science – Level 1

Anorexia nervosa, Bulimia nervosa Attention-deficit/hyperactivity disorderBipolar disorder Child/elder abuse, Spouse/partner abuse Multiple sclerosis Parkinson disease Seizure disorders Spontaneous intracranial hemorrhage Traumatic intracranial hemorrhage

Non-substance-related addictive disorders Post-traumatic stress disorder Substance use disorders: illicit substances, prescription drugs, alcohol, tobacco

Pulmonary System – Level 1

Lung cancer Pulmonary nodules

Renal System – Level 1

Acid-base disorders Acute kidney injury (Acute renal failure)

Reproductive System – Level 1

Abruptio placentae Amenorrhea Breast cancer Cervical cancer Dysfunctional uterine bleeding Endometriosis Gestational diabetes Hypertension disorders in pregnancy

Ovarian cysts Placenta previa Postpartum hemorrhage Premature rupture of membranes Prenatal diagnosis and care/preconception counseling Rh incompatibility Sexual/physical abuse in pregnancy

Level 2 Diseases and Disorders

The following diseases and disorders may be assessed at Level 2 on the PANRE and the Pilot Alternative to PANRE. Level 2 is defined as follows:

Level 2: Make appropriate diagnosis by recognizing signs, symptoms, risks and/or interpreting results of diagnostic studies and have knowledge of first-line treatment.

Cardiovascular System – Level 2

Acute myocardial infarction:non-ST-segment elevation myocardial infarction (NSTEMI) Acute myocardial infarction: ST-segment elevation myocardial infarction (STEMI) Acute pericarditis Aortic dissection Arterial embolism/thrombosis Atrial flutter Cardiac tamponade Hypertensive emergency Orthostatic hypotension Paroxysmal supraventricular tachycardia

Dermatologic System – Level 2

Acne vulgaris Actinic keratosis Acute urticaria, Drug eruptions Atopic dermatitis Burns Contact dermatitis Herpes simplex virus Hidradenitis suppurativa Impetigo Lipomas/epidermalinclusion cysts Molluscum contagiosum

Endocrine System – Level 2

Hyperthyroidism/thyrotoxicosis Thyroiditis

- Peripheral artery disease Phlebitis/thrombophlebitis Premature atrial/ventricular contractions Secondary hypertension Systolic heart failure Temporal arteritis Torsades de pointes Unstable angina Varicose veins Venous insufficiency Ventricular fibrillation Ventricular tachycardia
- Onychomycosis, Dermatophyte infections Paronychia Pilonidaldisease Pityriasis rosea Pressure ulcers Psoriasis Rosacea Scabies, Lice infestation Seborrheic dermatitis Spider bites

Eyes, Ears, Nose, and Throat - Level 2

Acute epiglottitis Acute/chronic sinusitis Allergic rhinitis Aphthous ulcers Blepharitis Chalazion Conjunctivitis Corneal abrasion Epistaxis Eustachian tube dysfunction Foreign body in ear Foreign body in eye Foreign body in nose Hordeolum Laryngitis Mastoiditis Meniere disease Orbital cellulitis Otitis externa Peritonsillarabscess Tympanic membrane perforation Vertigo

Gastrointestinal System/Nutrition – Level 2

Acute/chronic cholecystitis Acute/chronic pancreatitis Anal fissure Appendicitis Cholelithiasis Diverticulitis/diverticulosis Esophagitis Fecal impaction Food allergies Foreign body ingestion Gastritis Gastroesophageal reflux disease Hemorrhoids Hernias Infectious diarrhea Inflammatory bowel disease Intentional overdose of medication Irritable bowel syndrome Noninfectious diarrhea Peptic ulcer disease Small-bowel obstruction

Genitourinary System – Level 2

Acute prostatitis Bacterial cystitis Benign prostatic hyperplasia Chronic prostatitis Epididymitis Erectile dysfunction

Hematologic System – Level 2

Folate deficiency anemia Iron deficiency anemia Vitamin B12 deficiency anemia Nephrolithiasis/urolithiasis Orchitis Testicular torsion Urethritis Urinary incontinence

Infectious Diseases – Level 2

Acute rheumatic fever Chlamydial infections Epstein-Barr virus infections Gonococcal infections Human papillomavirus infections Lyme disease Measles Mumps Pinworm infestation Rocky Mountain spotted fever Roseola Rubella Syphilis Tuberculosis Vaginal candidiasis

Musculoskeletal System – Level 2

Back strain/sprain, Lower back injuries Biceps tendinitis Carpal tunnel syndrome de Quervain tenosynovitis Fibromyalgia Ganglion Gout/pseudogout Lateral and medial epicondylitis Osgood-Schlatter disease Osteoarthritis Rheumatoid arthritis Septic arthritis Shoulder bursitis Shoulder tendinitis Soft-tissue injuries: knee, foot/ankle, forearm/wrist/ hand Spinal stenosis

Neurologic System – Level 2

Cluster headache Concussion Essential tremor Meningitis Peripheral neuropathy Postconcussion syndrome Radiculopathy Status epilepticus Syncope

Psychiatry/Behavioral Science – Level 2

Bereavement/grief reaction Generalized anxiety disorder Major depressive disorder Panic disorder Suicide risk

Pulmonary System – Level 2

Acute bronchiolitis Acute bronchitis Acute respiratory distress syndrome Croup Foreign body aspiration

Renal System – Level 2

Chronic kidney disease Electrolyte disorders Pyelonephritis

Reproductive System – Level 2

Breast abscess Cervicitis Contraception Dysmenorrhea Ectopic pregnancy Pertussis Pleural effusion Pneumothorax Respiratory syncytial virus infection Sleep apnea

Mastitis Menopause Pelvic inflammatory disease Premenstrual syndrome Vaginitis

Level 3 Diseases and Disorders

The following diseases and disorders may be assessed at Level 3 on the PANRE and the Pilot Alternative to PANRE. Level 3 is defined as follows:

Level 3: Make appropriate diagnosis by recognizing signs, symptoms, risks and/or interpreting results of diagnostic studies and have knowledge of first-line treatment. In addition, have knowledge required to manage well known comorbid conditions, contrindications and complications.

Cardiovascular System – Level 3

Angina pectoris (stable angina) Atrial fibrillation Coronary artery disease Deep venous thrombosis Essential hypertension (in adults) Hypercholesterolemia Hypertriglyceridemia

Dermatologic System – Level 3

Cellulitis, Erysipelas

Endocrine System – Level 3

Hypothyroidism Metabolic syndrome and obesity Osteoporosis Type 1 diabetes mellitus Type 2 diabetes mellitus

Eyes, Ears, Nose, and Throat – Level 3

Acute pharyngitis Acute/chronicotitis media Oral candidiasis

Gastrointestinal System/Nutrition - Level 3

Appendicitis Constipation Gastroesophageal reflux disease

Genitourinary System – Level 3

No Level 3 topics in this content category.

Hematologic System – Level 3

No Level 3 topics in this content category. NCCPA

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Infectious Diseases - Level 3

Chickenpox/herpeszoster Influenza

Musculoskeletal System – Level 3

No Level 3 topics in this content category.

Neurologic System – Level 3

Migraine Stroke/transientischemic attack Tension headache

Psychiatry/Behavioral Science – Level 3

No Level 3 topics in this content category.

Pulmonary System – Level 3

Asthma Bacterial pneumonia Chronic bronchitis

Renal System – Level 3

Emphysema Pulmonary embolism Viral pneumonia

No Level 3 topics in this content category.

Reproductive System – Level 3

No Level 3 topics in this content category.