





# Mayo Clinic Physician Assistant Board Review


## PHARMACOLOGY CONTENT








Select presentations will contain pharmacology content as noted in the program. Identified presentations represent approximately 11.75 hours of pharmacology content.

Tuesday, July 30, 2019	
7:00 a.m.	Registration and Breakfast Leighton Auditorium Foyer
7:45 a.m.	Welcome and Introductions Ryan A. Meverden, P.A.-C.
8:00 a.m. 	Pulmonary- Pleural Diseases, Pulmonary Circulation, Restrictive Diseases, Pulmonary Embolism and Other Pulmonary Diseases Vicki A. Loeslie, APRN, C.N.P., D.N.P. Learning Objectives: <ul style="list-style-type: none"> <li>• Pulmonology = 12% of test</li> <li>• Outline terms and common tests</li> <li>• Discuss diagnostic test for pleural lung diseases</li> <li>• Describe different types of restrictive lung diseases</li> <li>• Recognize characteristics of diseases within the pulmonary circulatory system</li> </ul>
9:00 a.m. 	Pulmonology – Bronchiectasis, COPD, Asthma, PFT Review Respiratory Inhalers Managing Asthma Inhaled Glucocorticoids Eric A. Aguirre, APRN, C.N.P.
10:00 a.m.	Refreshment Break Leighton Auditorium Foyer
10:15 a.m. 	Pulmonary Infections Daniel C. DeSimone, M.D. Learning Objectives: <ul style="list-style-type: none"> <li>• Review infectious disorders:</li> <li>• Acute bronchitis</li> <li>• Acute bronchiolitis</li> <li>• Acute epiglottitis</li> <li>• Croup</li> <li>• Influenza</li> <li>• Pertussis</li> <li>• Pneumonias—Bacterial, Viral, Fungal, HIV-related</li> <li>• Respiratory syncytial virus infection</li> <li>• Tuberculosis</li> </ul>

<p>11:00 a.m.</p> 	<p>Infectious Disease Part I Daniel C. DeSimone, M.D. Learning Objectives: Review:</p> <ul style="list-style-type: none"> <li>• Bacterial disease</li> <li>• Fungal disease</li> <li>• Mycobacterial disease</li> </ul> <p>Review infectious syndromes:</p> <ul style="list-style-type: none"> <li>• Acute/chronic osteomyelitis</li> <li>• Septic arthritis</li> </ul>
<p>12:00 p.m.</p>	<p>Lunch Leighton Auditorium Foyer</p> <p>Lab Medicine (Optional) Andrew J. Herber, P.A.-C.</p>
<p>1:00 p.m.</p> 	<p>Infectious Disease Part II Daniel C. DeSimone, M.D. Learning Objectives: Review:</p> <ul style="list-style-type: none"> <li>• Spirochetal disease</li> <li>• Viral disease</li> <li>• Parasitic disease</li> </ul> <p>Review infectious syndromes:</p> <ul style="list-style-type: none"> <li>• Infectious diarrhea</li> <li>• Noninfectious diarrhea</li> <li>• Encephalitis</li> <li>• Meningitis</li> </ul>
<p>2:00 p.m.</p> 	<p>Endocrinology - Diabetes, Disorders of the Thyroid Diabetes Mellitus Justine S. Herndon, P.A.-C. Learning Objectives:</p> <ul style="list-style-type: none"> <li>• Differentiate the etiology between DM1 and DM2</li> <li>• Understand therapeutic management for DM1 and DM2</li> <li>• Understand difference between hyper- and hypothyroidism and corresponding labs</li> <li>• Understand therapeutic management in hyper- vs hypothyroidism</li> <li>• Review of thyroid nodules and thyroid cancer</li> </ul>
<p>2:45 p.m.</p>	<p>Refreshment Break Leighton Auditorium Foyer</p>
<p>3:00 p.m.</p> 	<p>Endocrinology–Disorders of the Adrenal Gland, Pituitary, Parathyroid, and Osteoporosis Justine S. Herndon, P.A.-C. Learning Objectives:</p> <ul style="list-style-type: none"> <li>• Discuss epidemiology, etiology, clinical manifestations, diagnosis and treatment of the following endocrine disorders:</li> <li>• Pituitary gland</li> <li>• Adrenal glands</li> <li>• Parathyroid glands</li> <li>• Osteoporosis</li> </ul>

4:00 p.m.	Neurology Neurology Chart Karen M. Townsend, P.A.-C.
5:00 p.m.	Day One Wrap-up Ryan A. Meverden, P.A.-C.
5:15 p.m.	Day One Adjourns
5:15-6:00 p.m.	Mayo Clinic Tour (Optional)
<b>Wednesday, July 31, 2019</b>	
7:00 a.m.	Breakfast Leighton Auditorium Foyer
7:30 a.m.	Review Key Board-related Summary Points Ryan A. Meverden, P.A.-C.
8:00 a.m.	EKG Basics Sally E. Heusinkvelt, APRN, C.N.P.
8:45 a.m.	Valvular Disease, Cardiomyopathy, Other Forms of Heart Disease . 297 Cardiac Physical Exam Jane A. Linderbaum, APRN, C.N.P.
9:45 a.m.	Refreshment Break Leighton Auditorium Foyer
10:00 a.m. 	Hypertension, Hypotension Jane F. Myers, APRN, C.N.P. Learning Objectives: <ul style="list-style-type: none"> <li>• Discuss, define and treatment of essential hypertension, secondary hypertension and hypertensive emergencies</li> <li>• Discuss, define and treatment of hypotension including cardiogenic shock and orthostatic hypotension</li> </ul>
10:30 a.m.	Coronary Heart Disease William A. Schnell, Jr., P.A.-C.
11:15 a.m.	Congenital Heart Disease William A. Schnell, Jr., P.A.-C.
12:00 p.m.	Lunch Leighton Auditorium Foyer  Management of Common Cardiac Conditions in Hospitalized Patients (Optional) Sally E. Heusinkvelt, APRN, C.N.P.

1:00 p.m. 	Heart Failure Janell Grazzini Frantz, APRN, C.N.P., M.S.N. Learning Objectives: <ul style="list-style-type: none"> <li>List signs and symptoms of Heart Failure (HF)</li> <li>Describe initial and serial evaluation of HF</li> <li>Describe stages of HF</li> <li>Discuss treatment strategies</li> </ul>
1:45 p.m.	Vascular Medicine Alice J. Malecha, APRN, C.N.P., D.N.P.
2:45 p.m.	Refreshment Break Leighton Auditorium Foyer
3:00 p.m. 	Cardiac/Vascular Pharmacology Bryce M. Kayhart, Pharm.D. Learning Objectives: <ul style="list-style-type: none"> <li>Outline the commonly used classes of medications used for hypertension.</li> <li>Choose an appropriate agent for a patient based on his or her compelling indications for pharmacotherapy.</li> <li>Review the evidence supporting the use of novel oral anticoagulants (NOACs) for atrial fibrillation and venous thromboembolism.</li> </ul>
4:00 p.m. 	Infectious Disease – Pharmacology-Antibiotics/Antifungals Bryce M. Kayhart, Pharm.D. Learning Objectives: <ul style="list-style-type: none"> <li>Name the pharmacologic targets of commonly utilized antibiotics.</li> <li>Classify antibiotics based on the pharmacodynamic parameters associated with their efficacy.</li> <li>Explain common causes of antibiotic failure.</li> <li>Describe the spectra of activity of various antibiotic classes.</li> <li>List common adverse effects of individual antibiotic agents.</li> </ul>
5:00 p.m.	Day Two Wrap-up Ryan A. Meverden, P.A.-C.
5:15 p.m.	Day 2 Adjourns
<b>Thursday, August 1, 2019</b>	
7:00 a.m.	Breakfast Leighton Auditorium Foyer
7:30 a.m.	Review Key Board-related Summary Points Ryan A. Meverden, P.A.-C.
8:00 a.m.	Gastroenterology – Liver / Gallbladder / Pancreas 675 Jody A. Weckwerth, P.A.-C.
8:30 a.m.	Gastroenterology – Esophagus / Stomach Sarel J. Myburgh, APRN, C.N.P., M.S.

9:00 a.m.	Gastroenterology - Small Bowel / Colon / Rectum Part 1 Infectious Diarrhea Nutritional Deficiencies Part 2 Sawra A. Maurer, P.A.-C. & Shayla A. Schoenoff, P.A.-C.
10:00 a.m.	Refreshment Break Leighton Auditorium Foyer
10:15 a.m.	Dermatology Review Sarah C. Suarez, P.A.-C.
11:00 a.m.	Nephrology – ARF, CKD Becky M. Ness, P.A.-C.
11:30 a.m.	Acid/Base – ABG review Sandhya Manohar, M.B.B.S.
12:00 p.m.	Lunch Leighton Auditorium Foyer  Case Sheets Takeaways ABG Breakout Session (Optional) Panagiotis Kompotiatis, M.D.
1:00 p.m. 	Oncology Casey A. Fazer, P.A.-C. Learning Objectives: <ul style="list-style-type: none"> <li>• Overview of cancers referenced in board review + encountered in general practice</li> <li>• Epidemiology/risk factors</li> <li>• Screening recommendations</li> <li>• Evaluation/diagnosing/management of suspected or confirmed malignancy before referral</li> <li>• Survivorship issues/long-term sequelae and considerations</li> <li>• Apply in case studies</li> </ul>
2:00 p.m.	Rheumatology Daniel E. Schaffer, P.A.-C., M.S. Learning Objectives and outline: <ul style="list-style-type: none"> <li>• Review and discuss Rheumatology topics on the NCCPA PANRE outline</li> <li>• Participants at conclusion of module will have a better understanding of the selected topics for the PANRE and their clinical practices</li> <li>• Individual Topic Review</li> <li>• Case Studies and Discussion</li> </ul>
3:15 p.m.	Refreshment Break Leighton Auditorium Foyer
3:30 p.m. 	Psychiatry Jill C. Rohling, P.A.-C. Learning Objectives: <ul style="list-style-type: none"> <li>• Provide an overview of psychiatric topics relevant to the PANCE and PANRE.</li> </ul>

4:45 p.m.	Day Three Wrap-up Ryan A. Meverden, P.A.-C.
5:00 p.m.	Day 3 Adjourns
<b>Friday, August 2, 2019</b>	
7:00 a.m.	Breakfast Leighton Auditorium Foyer
7:30 a.m.	Review Key Board-related Summary Points Ryan A. Meverden, P.A.-C.
8:00 a.m.	Urology Angela L. Larson, P.A.-C.
9:00 a.m.	Women's Health: Antepartum & Intrapartum Care--From Normal to Abnormal Julie A. Lamppa, APRN, CNM
10:15 a.m.	Refreshment Break Leighton Auditorium Foyer
10:30 a.m.	Women's Health Menstrual Cycle Nicole M. Bush, APRN, C.N.P., M.S.
11:30 a.m.	Hematology Inherited Coagulation Disorders Darci L. Zblewski, APRN, C.N.P.
12:15 p.m.	Lunch Leighton Auditorium Foyer
1:15 p.m.	Musculoskeletal Peter L. Bos, P.A.-C.
2:30 p.m.	Refreshment Break Leighton Auditorium Foyer
2:45 p.m.	Eye, Ear, Nose, and Throat Michelle T. Ziebarth, APRN, C.N.P.
3:45 p.m.	Pediatrics Immunizations Jody A. Weckwerth, P.A.-C.
4:45 p.m.	Closing Remarks Ryan A. Meverden, P.A.-C.
5:00 p.m.	Course Adjourns

Program schedule subject to change.