

**Primary Care Ambulatory Rotation:  
Office Orthopedics/Rheumatology (one month)**

**Goals:**

The resident will demonstrate competence at the level of a general internist in the patient care and medical knowledge required for diagnosis and management of common office rheumatologic and orthopedic problems.

**Objectives:**

By the end of the Primary Care Ambulatory Rotation: Office Orthopaedics/Rheumatology curriculum, PGY-1 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Highlighted objectives are from the ambulatory rheumatology rotation

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate the ability to perform a complete joint examination.	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	Aspirate the knee joint and perform injections of the rotator cuff and biceps tendons, carpal tunnel, knee, and anserine and trochanteric bursae.	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	Evaluate, diagnose and properly manage patients suffering from the following rheumatologic/orthopaedic conditions: <ul style="list-style-type: none"> <li>• Osteoarthritis</li> <li>• Rheumatoid arthritis</li> <li>• Shoulder pain</li> <li>• Knee pain</li> <li>• Neck pain</li> <li>• Low back pain</li> <li>• Foot and ankle pain</li> <li>• Carpal tunnel syndrome</li> <li>• Anserine and trochanteric bursitis</li> <li>• Stenosing tenosynovitis</li> <li>• Ganglion cysts</li> <li>• Epicondylitis</li> </ul>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	

<ul style="list-style-type: none"> <li>Minor sports-related injuries</li> </ul>	<p>Obtain an appropriate history and perform physical examination to enable the detection of the following illnesses: rheumatoid arthritis, systemic lupus erythematosus, scleroderma/systemic sclerosis, polymyositis, spondyloarthropathies, vasculitis, crystal-induced synovitis, osteoarthritis, regional musculoskeletal pain syndromes acute and chronic musculoskeletal pain syndromes, nonarticular rheumatic diseases including fibromyalgia, nonsurgical exercise-related (sports) injury, systemic diseases with rheumatic manifestations, metabolic bone diseases, osteoporosis, infection of joints and soft tissues, Sjogren's Syndrome, and pediatric rheumatic disease;</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in examination, to include a specific examination of structure and function of all joints, both axial and peripheral, as well as periarticular structure and muscle units</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in diagnostic aspiration and analysis by light and compensated polarized light microscopy of synovial fluid</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in therapeutic injection of diarthrodial joints, bursae, tenosynovial structures, and entheses</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in use of nonsteroidal anti-inflammatory drugs, analgesics, disease-modifying drugs, biologic response modifiers, glucocorticoids, cytotoxic drugs, antihyperuricemic drugs, pharmacologic bone agents, and antibiotic therapy for septic joints</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in indications for, and performance or interpretation of biopsies of tissues relevant to diagnosis of rheumatic diseases, bone and joint imaging techniques, bone density measurements, controlled trials in rheumatic diseases, indications for arthroscopy, and electromyograms, nerve conduction studies, and muscle/nerve biopsy</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	

	Describe the indications for surgical and orthopedic consultation	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Identify the geriatric and aging influences on care of the rheumatologic patient	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Describe the evaluation, management and rehabilitation of exercise-related (sports) illnesses	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Recognize the principles of physical medicine and rehabilitation in patients with rheumatic disorders	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Identify the pharmacology and pharmacokinetics, including drug metabolism, adverse effects, interactions, and relative costs of therapy used in rheumatic and metabolic bone disorders	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Describe the scientific basis of the methodology, indications, and interpretations of laboratory tests and imaging procedures used in diagnosis and management of rheumatic and metabolic bone diseases	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	

Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			

By the end of the Primary Care Ambulatory Rotation: Office Orthopaedics/Rheumatology curriculum, PGY-2 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Highlighted objectives are from the ambulatory rheumatology rotation

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Demonstrate the ability to perform a complete joint examination.	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	Aspirate the knee joint and perform injections of the rotator cuff and biceps tendons, carpal tunnel, knee, and anserine and trochanteric bursae.	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	Evaluate, diagnose and properly manage patients suffering from the following rheumatologic/orthopaedic conditions: <ul style="list-style-type: none"> <li>Osteoarthritis</li> <li>Rheumatoid arthritis</li> </ul>	Clinical Teaching	ABIM global assessment form  Written Exam	

	<ul style="list-style-type: none"> <li>• Shoulder pain</li> <li>• Knee pain</li> <li>• Neck pain</li> <li>• Low back pain</li> <li>• Foot and ankle pain</li> <li>• Carpal tunnel syndrome</li> <li>• Anserine and trochanteric bursitis</li> <li>• Stenosing tenosynovitis</li> <li>• Ganglion cysts</li> <li>• Epicondylitis</li> <li>• Minor sports-related injuries</li> </ul>		Procedure Log	
	<p>Obtain an appropriate history and perform physical examination to enable the detection of the following illnesses: rheumatoid arthritis, systemic lupus erythematosus, scleroderma/systemic sclerosis, polymyositis, spondyloarthropathies, vasculitis, crystal-induced synovitis, osteoarthritis, regional musculoskeletal pain syndromes acute and chronic musculoskeletal pain syndromes, nonarticular rheumatic diseases including fibromyalgia, nonsurgical exercise-related (sports) injury, systemic diseases with rheumatic manifestations, metabolic bone diseases, osteoporosis, infection of joints and soft tissues, Sjogren's Syndrome, and pediatric rheumatic disease;</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in examination, to include a specific examination of structure and function of all joints, both axial and peripheral, as well as periarticular structure and muscle units</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in diagnostic aspiration and analysis by light and compensated polarized light microscopy of synovial fluid</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in therapeutic injection of diarthrodial joints, bursae, tenosynovial structures, and enthuses</p>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	<p>Develop competence in use of nonsteroidal anti-inflammatory drugs, analgesics, disease-modifying drugs,</p>	Clinical Teaching	ABIM global assessment form	

	biologic response modifiers, glucocorticoids, cytotoxic drugs, antihyperuricemic drugs, pharmacologic bone agents, and antibiotic therapy for septic joints		Written Exam Procedure Log	
	Develop competence in indications for, and performance or interpretation of biopsies of tissues relevant to diagnosis of rheumatic diseases, bone and joint imaging techniques, bone density measurements, controlled trials in rheumatic diseases, indications for arthroscopy, and electromyograms, nerve conduction studies, and muscle/nerve biopsy	Clinical Teaching	ABIM global assessment form  Written Exam Procedure Log	
	Describe the indications for surgical and orthopedic consultation	Clinical Teaching	ABIM global assessment form  Written Exam Procedure Log	
	Identify the geriatric and aging influences on care of the rheumatologic patient	Clinical Teaching	ABIM global assessment form  Written Exam Procedure Log	
	Describe the evaluation, management and rehabilitation of exercise-related (sports) illnesses	Clinical Teaching	ABIM global assessment form  Written Exam Procedure Log	
	Recognize the principles of physical medicine and rehabilitation in patients with rheumatic disorders	Clinical Teaching	ABIM global assessment form  Written Exam Procedure Log	
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Identify the pharmacology and pharmacokinetics, including drug metabolism, adverse effects, interactions, and relative costs of therapy used in rheumatic and metabolic bone disorders	Clinical Teaching	ABIM global assessment form  Written Exam	

			Procedure Log	
	Describe the scientific basis of the methodology, indications, and interpretations of laboratory tests and imaging procedures used in diagnosis and management of rheumatic and metabolic bone diseases	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b> See General Internal Medicine Objectives for a comprehensive list.			

By the end of the Primary Care Ambulatory Rotation: Office Orthopaedics/Rheumatology curriculum, PGY-3 residents are expected to expand and cultivate skills and knowledge learned during previous training and to achieve the following objectives based on the six general competencies. The resident should exhibit an increasing level of responsibility and independency as he or she progresses throughout the year.

Highlighted objectives are from the ambulatory rheumatology rotation

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	<b>SPECIALTY SPECIFIC OBJECTIVES</b> Demonstrate the ability to perform a complete joint examination.	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log	
	Aspirate the knee joint and perform injections of the rotator cuff and biceps tendons, carpal tunnel, knee, and anserine and trochanteric bursae.	Clinical Teaching	ABIM global assessment form  Written Exam	

			Procedure Log	
Evaluate, diagnose and properly manage patients suffering from the following rheumatologic/orthopaedic conditions: <ul style="list-style-type: none"> <li>• Osteoarthritis</li> <li>• Rheumatoid arthritis</li> <li>• Shoulder pain</li> <li>• Knee pain</li> <li>• Neck pain</li> <li>• Low back pain</li> <li>• Foot and ankle pain</li> <li>• Carpal tunnel syndrome</li> <li>• Anserine and trochanteric bursitis</li> <li>• Stenosing tenosynovitis</li> <li>• Ganglion cysts</li> <li>• Epicondylitis</li> <li>• Minor sports-related injuries</li> </ul>	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log		
Obtain an appropriate history and perform physical examination to enable the detection of the following illnesses: rheumatoid arthritis, systemic lupus erythematosus, scleroderma/systemic sclerosis, polymyositis, spondyloarthropathies, vasculitis, crystal-induced synovitis, osteoarthritis, regional musculoskeletal pain syndromes acute and chronic musculoskeletal pain syndromes, nonarticular rheumatic diseases including fibromyalgia, nonsurgical exercise-related (sports) injury, systemic diseases with rheumatic manifestations, metabolic bone diseases, osteoporosis, infection of joints and soft tissues, Sjogren's Syndrome, and pediatric rheumatic disease;	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log		
Develop competence in examination, to include a specific examination of structure and function of all joints, both axial and peripheral, as well as periarticular structure and muscle units	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log		
Develop competence in diagnostic aspiration and analysis by light and compensated polarized light microscopy of synovial fluid	Clinical Teaching	ABIM global assessment form  Written Exam  Procedure Log		
Develop competence in therapeutic injection of diarthrodial joints, bursae, tenosynovial structures, and enthuses	Clinical Teaching	ABIM global assessment form		

			Written Exam Procedure Log	
	Develop competence in use of nonsteroidal anti-inflammatory drugs, analgesics, disease-modifying drugs, biologic response modifiers, glucocorticoids, cytotoxic drugs, antihyperuricemic drugs, pharmacologic bone agents, and antibiotic therapy for septic joints	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Develop competence in indications for, and performance or interpretation of biopsies of tissues relevant to diagnosis of rheumatic diseases, bone and joint imaging techniques, bone density measurements, controlled trials in rheumatic diseases, indications for arthroscopy, and electromyograms, nerve conduction studies, and muscle/nerve biopsy	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Describe the indications for surgical and orthopedic consultation	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Identify the geriatric and aging influences on care of the rheumatologic patient	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Describe the evaluation, management and rehabilitation of exercise-related (sports) illnesses	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
	Recognize the principles of physical medicine and rehabilitation in patients with rheumatic disorders	Clinical Teaching	ABIM global assessment form Written Exam Procedure Log	
Medical Knowledge	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	Identify the pharmacology and pharmacokinetics, including drug metabolism, adverse effects, interactions, and relative costs of therapy used in rheumatic and metabolic bone	Clinical Teaching	ABIM global assessment form	

	disorders		Written Exam	
			Procedure Log	
	Describe the scientific basis of the methodology, indications, and interpretations of laboratory tests and imaging procedures used in diagnosis and management of rheumatic and metabolic bone diseases	Clinical Teaching	ABIM global assessment form	
			Written Exam	
			Procedure Log	
Practice Based Learning and Improvement	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Interpersonal and Communication Skills	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Professionalism	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			
Systems-Based Practice	<b>SPECIALTY SPECIFIC OBJECTIVES</b>			
	See General Internal Medicine Objectives for a comprehensive list.			

### Learning Venues:

The resident will spend ½ month at Campbell’s Clinic (general orthopedic patients) and the other ½ month at UT in the rheumatology clinics. Becky Adams at Campbell’s Clinic (448-5880) will set up clinic time with general orthopedics/sports medicine. Remember that actual injection experience is better obtained in the medical center orthopedic rotations. One day per month should be spent in podiatry at the VA. The rheumatology clinics are at set times. Faculty provide direct supervision of all outpatient encounters.

Reading materials for the rotation are available in the rheumatology and orthopedics section of the on-line ambulatory syllabus. Also relevant sections of Goroll’s Primary Care Medicine text.

### Competency Evaluation:

ABIM Global Assessment Form – All six competencies must be rated as satisfactory or superior.

Written examination at end of rotation – This will assess patient care and medical knowledge. A score of 80% should be attained.

Procedure Log

### Outcomes Assessment:

Rheumatology and general medicine subsections on the intraining examination and ABIM certifying examination will be monitored with an expectation of 50 %ile performance by

all residents. In addition resident evaluation of their experience, annual program evaluation by residents, and periodic surveys of program graduates will be monitored.