

Sick Call Screener Course

Musculoskeletal System -Lower Extremities (2.9)



Enabling Objectives

- 1.46 Utilize the knowledge of musculoskeletal system anatomy while assessing a patient with a musculoskeletal complaint
- 1.47 Utilize the knowledge of musculoskeletal system physiology while assessing a patient with a musculoskeletal complaint
- 1.48 Obtain history from patient with common orthopedic disorders



Enabling Objectives(Cont.)

- 1.49 Perform an orthopedic examination
- 1.50 State signs and symptoms of common orthopedic disorders
- 1.51 State treatments for common orthopedic disorders
- 1.16 State Red Flag criteria



Lower Extremity



Photo by: Petty Officer 3rd Class Katarzyna Kobiljak | USS John C. Stennis (CVN74)



Pelvis and Hip

- Pelvic Bones
- IliopsoasJoint
- GreaterTrochanter
- LesserTrochanter



Air Medical Journal Volume 36, Issue 5. MyAthens



Bones in the Knee

- Medial and lateral epicondyle of the femur
- Patella
- Superior and inferior patella tendon
- Medial and lateral condyle of the tibia



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Muscles of the Knee

- Quadriceps
- Hamstring Muscles



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Joints of the Knee

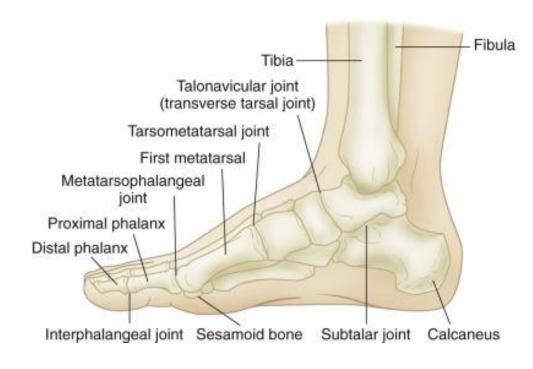
- Ligaments
- Menisci
- Patella
- Bursa





Bones of the Ankle and Foot

- Calcaneous
- Talus
- Tibia
- Phalanges
- Metatarsals
- Tarsal
- Medial and lateral malleolus



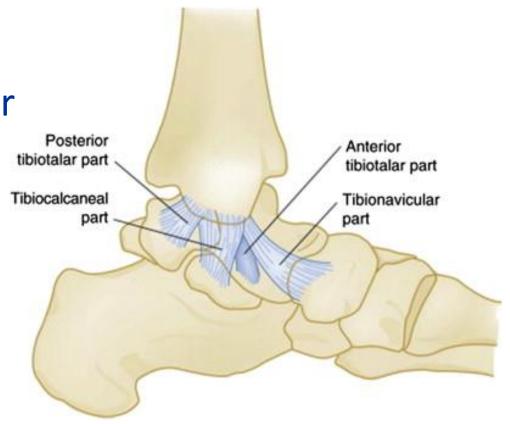
Seidel's Guide to Physical Examination 8th Edition

2.9-2-9



Ligaments of the Ankle and Foot

- Anterior Talofibular Ligament
- Posterior Talofibular
 Ligament
- Calcaneofibular
 Ligament



Emergency Medicine Clinics of North America. Volume 33, Issue 2. MyAthens

2.9-2-10



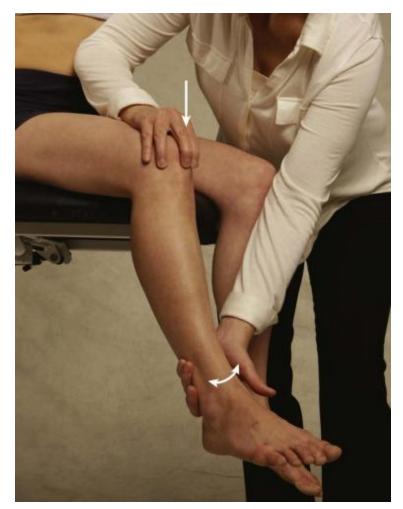
Obtain History

- Obtain Patient History
 - -CC
 - HPI
 - OLDCARTS
 - PMHx
 - Family History
 - ROS



Perform an Orthopedic Examination

- Physical Exam
 - General Impression
 - Palpation
 - ROM
 - Neurologic Exam



Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



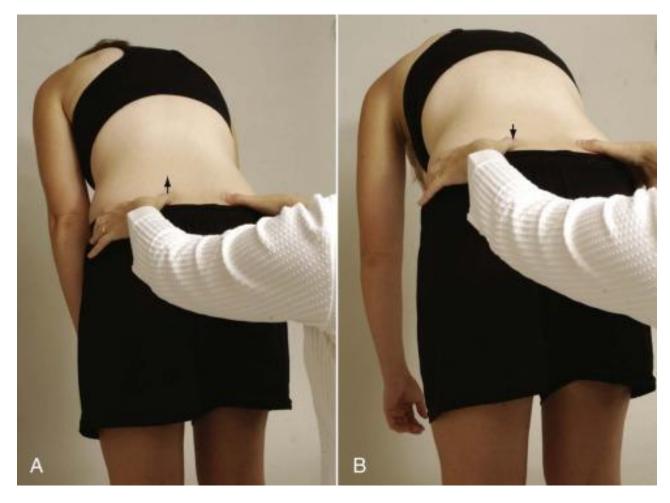
Pelvis and Hip Examination



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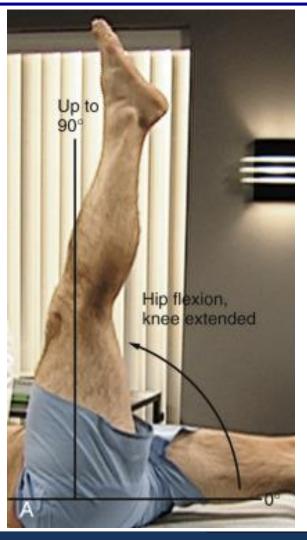
Pelvis and Hip Palpation



Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



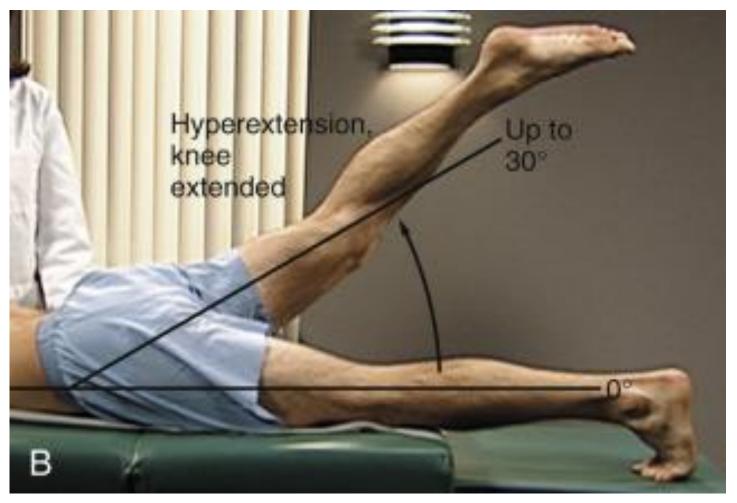
Hip Flexion



Seidel's Guide to Physical Examination 8th Edition



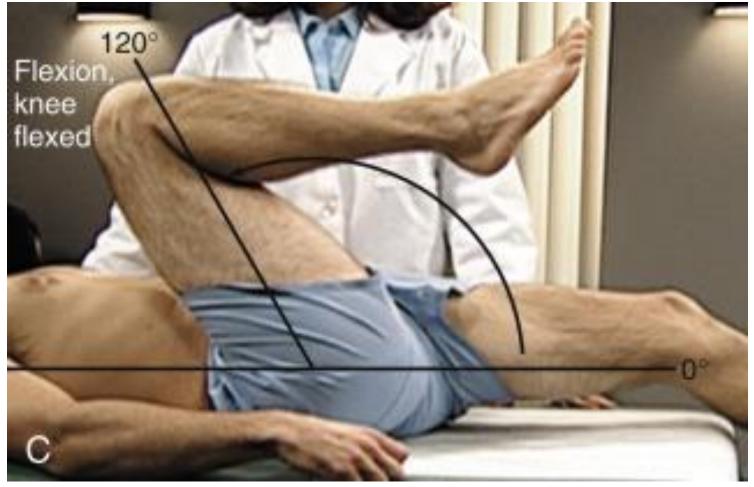
Hyperextension



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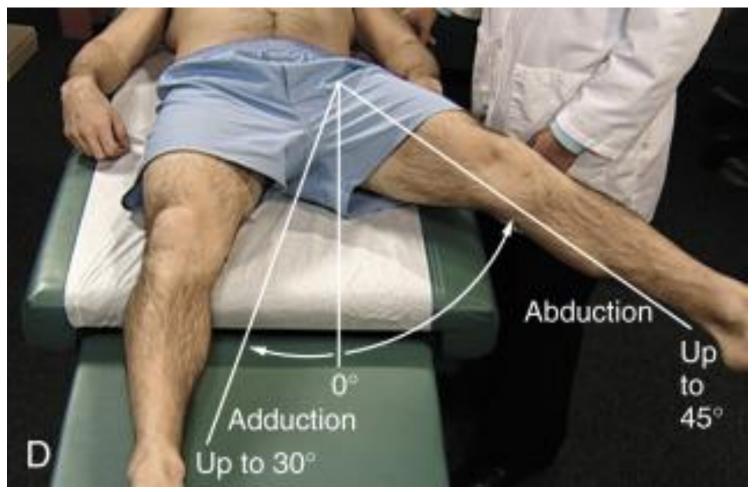
Hip Flexion w/ knee flexed



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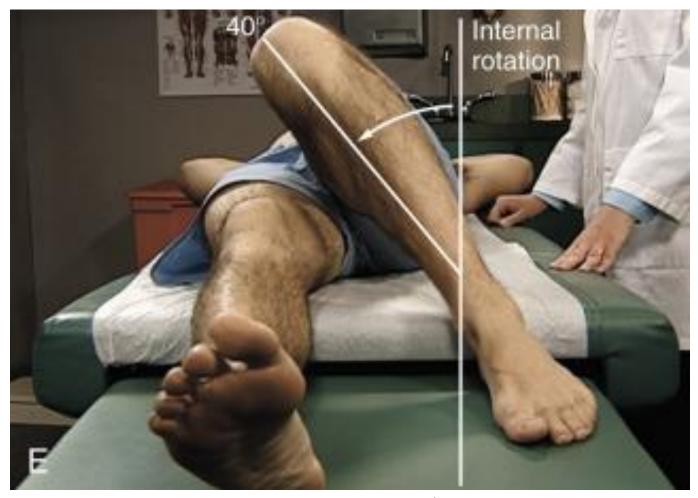
Abduction and Adduction



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Internal Rotation



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External Rotation



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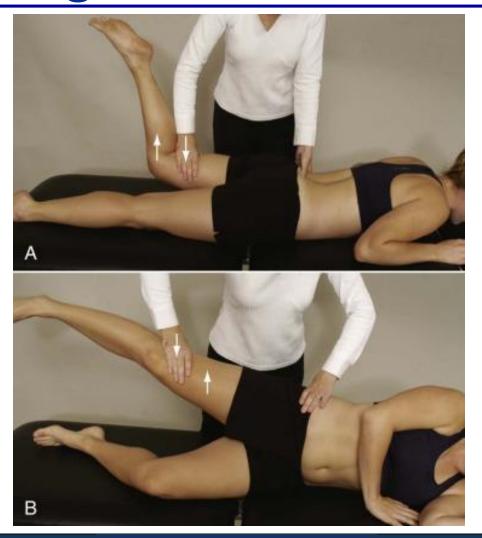
Testing Hip Flexor



Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



Testing Extensors & Adductors



Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens

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Testing Abductors



Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



Trendelenburg Test



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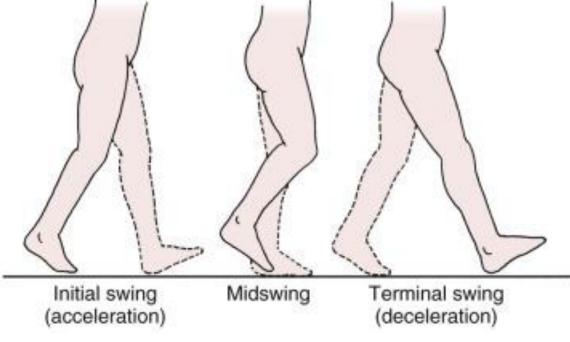
R³
Relevant, Responsive, Requested

2.9-2-24



Pelvis and Hip Exams

- Special Tests
- Related areas
- Sensation
- Reflexes
- Gait
- Neurovascular
 Status



Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



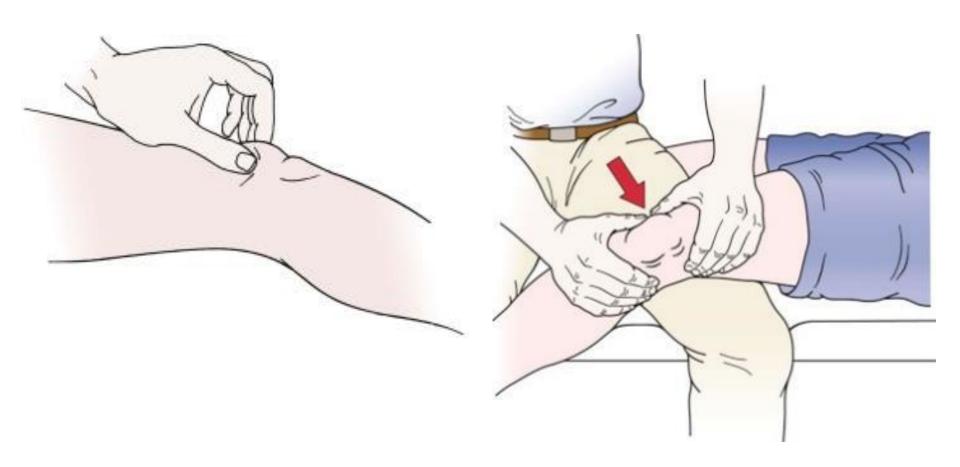
Knee Inspection



Procedures Consult. Published Feb 7, 2008. MyAthens



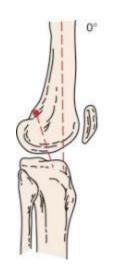
Knee Palpation

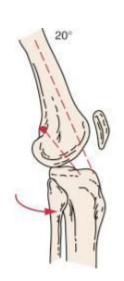


Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



Knee Active ROM











Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



Knee Passive ROM



Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens



Testing Quadriceps & Hamstrings





Orthopedic Physical Assessment. Published Dec 31, 2013. MyAthens

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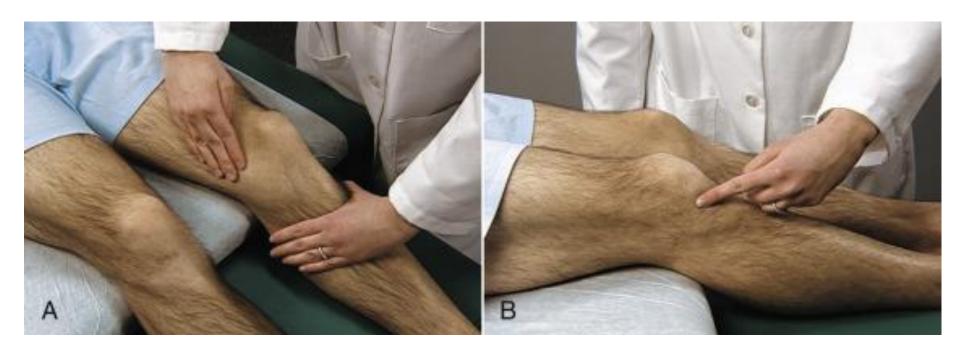
Ballottement



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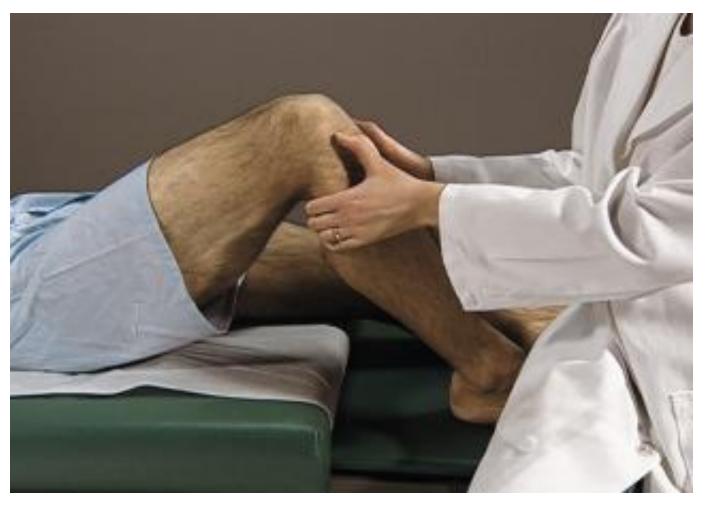
Bulge Signs



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Drawer's Test



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Lachman's Tests





Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



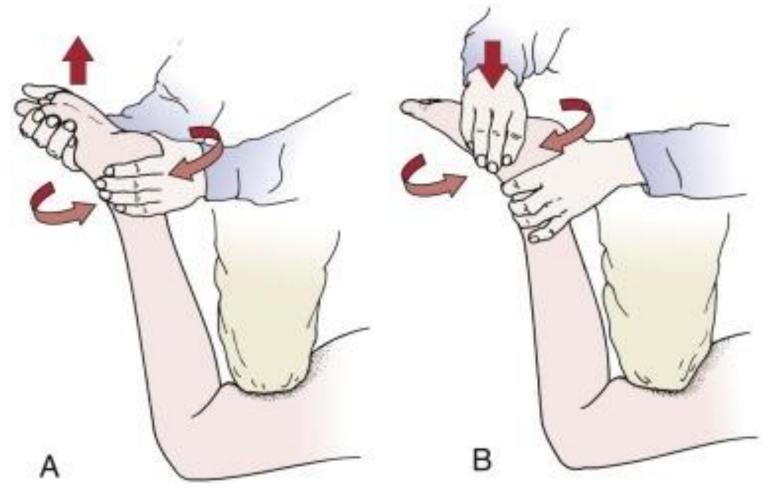
McMurray's Sign



Seidel's Guide to Physical Examination 8th Edition



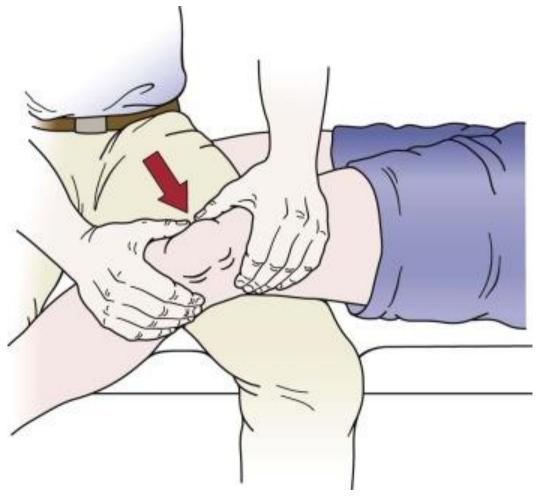
Apley's Compression & Distraction Tests



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



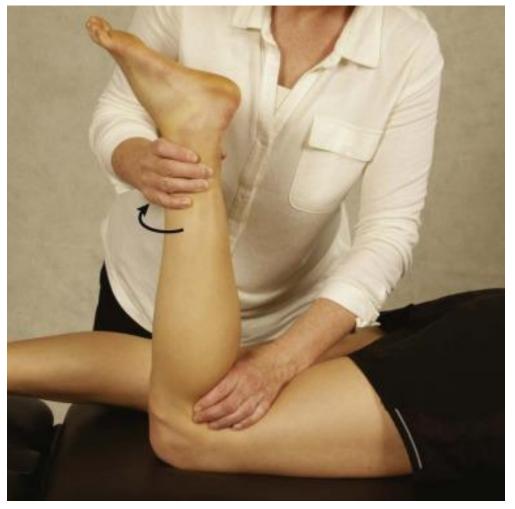
Apprehension Test



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Examination of Related Areas



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



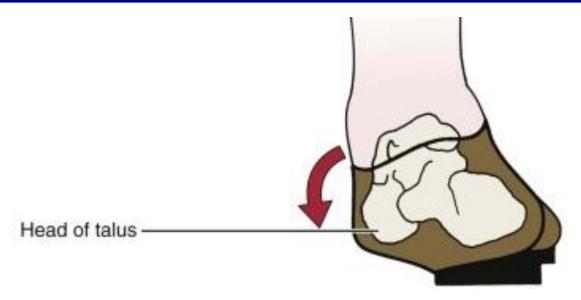
Ankle and Foot Examination

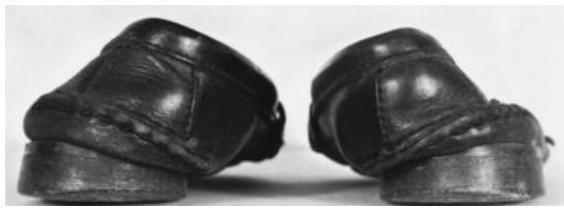


Clinical Skills: Figure 15. Published Mar 29, 2018. MyAthens



Ankle and Foot Inspection

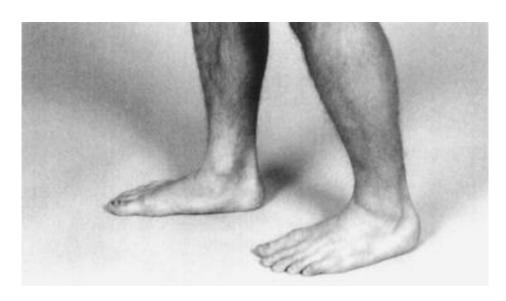




Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Ankle and Foot Inspection (Cont.)





Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



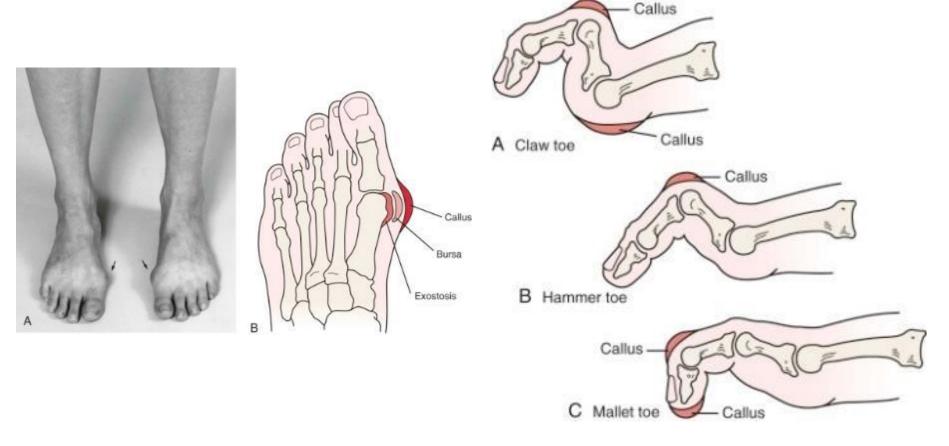
Number of Toes



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Unexpected Deviations



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens

2.9-2-43



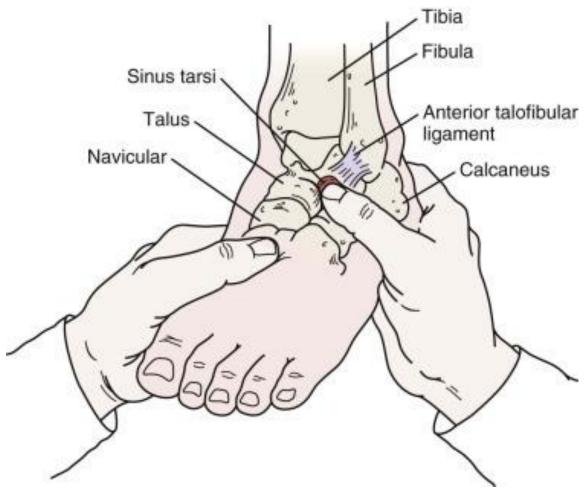
Ankle and Foot Palpation



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Palpation of Bony Prominences



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Forefoot Palpation



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Ankle and Foot Active ROM



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Ankle and Foot Passive ROM

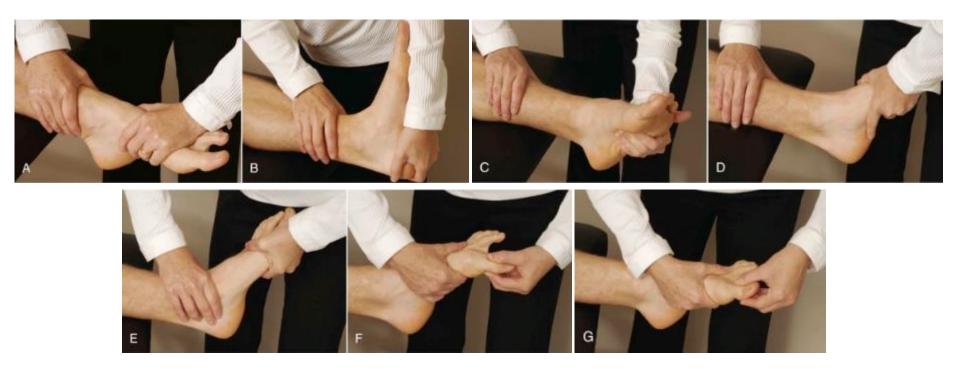


Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens

R³ _____



Ankle and Foot Motor Strength

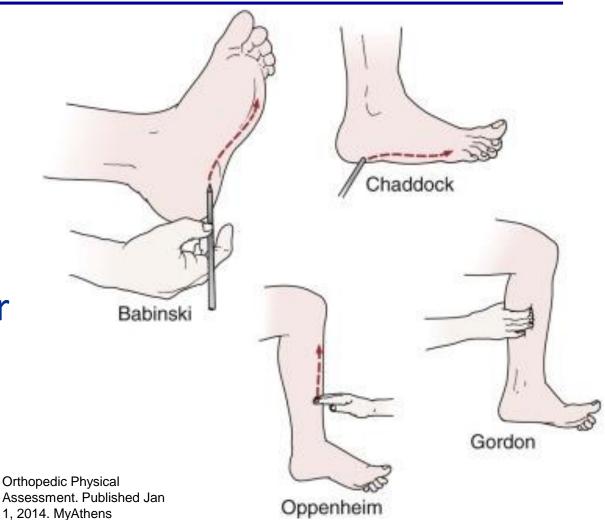


Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Ankle and Foot Neurovascular

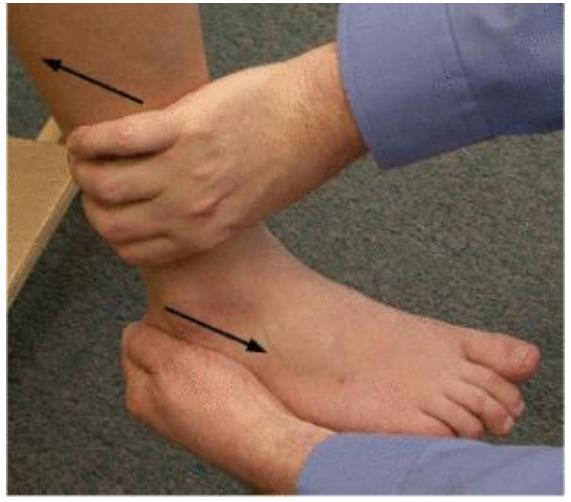
- Sensation
- Reflexes
- Gate
- Neurovascular **Status**



Assessment. Published Jan 1, 2014. MyAthens



Anterior Drawers Test



Essentials of Musculoskeletal Care – 5th Ed. (2016)



Talar Tilt Test





Essentials of Musculoskeletal Care – 5th Ed. (2016)



Talar Tilt Test (Cont.)





Essentials of Musculoskeletal Care -5^{th} Ed. (2016)



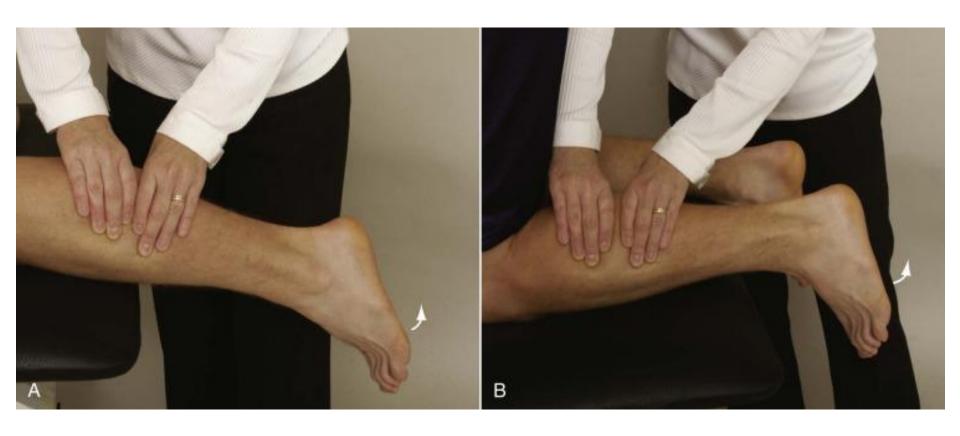
Anterior Tibialis



Essentials of Musculoskeletal Care – 5th Ed. (2016)



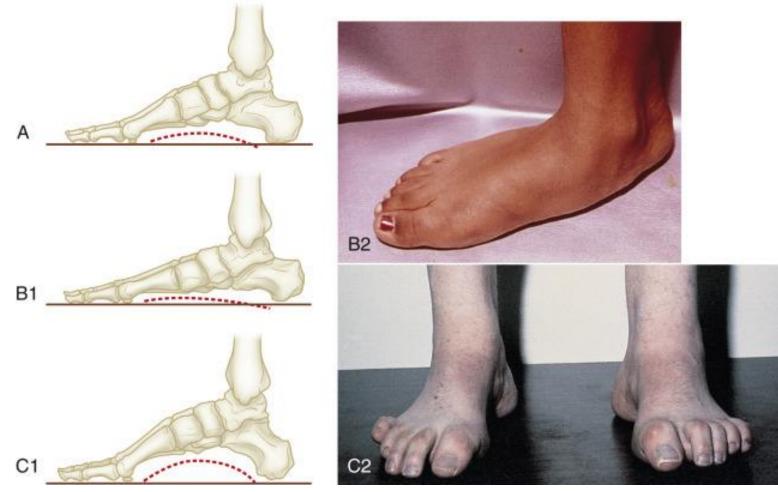
Thompson Test



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



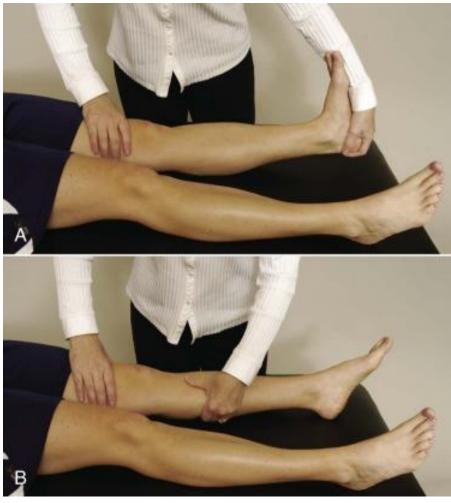
Rigid or Supple Flat Feet Test



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Homans' Sign



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



Examination of Related Areas



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



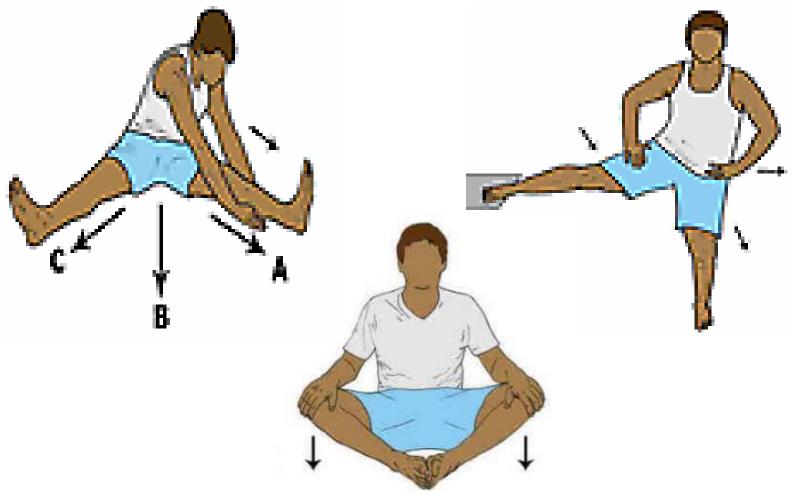
Common Hip Conditions



Photo by: Sgt. Caitlyn Smoyer | VIRIN: 171113-A-GA727-116C.JPG



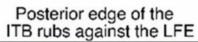
Groin and Hamstring Pull

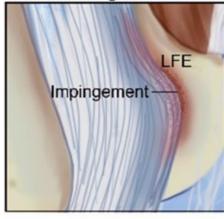


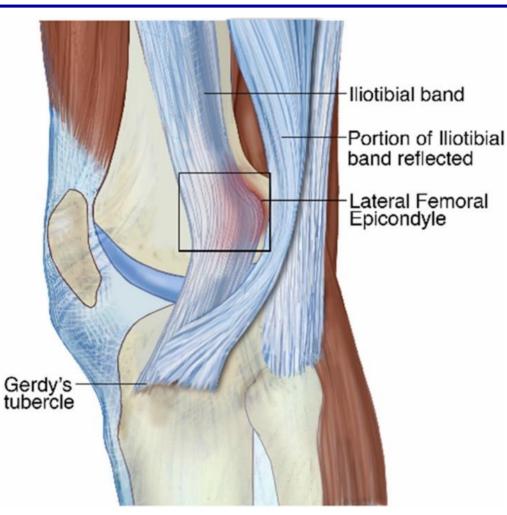
Patient Education. Published May 22, 2017. MyAthens



Iliotibial Band Tendonitis (ITB)





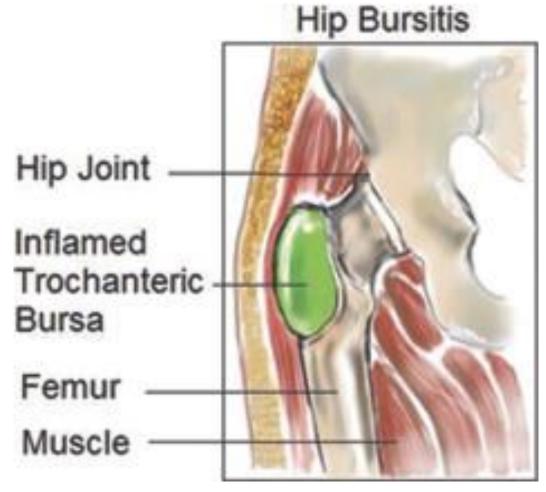


Clinical Overview, Published Dec 19, 2017, MyAthens

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Trochanteric Bursitis



Journal for Nurse Practitioners. Published May 1, 2007. MyAthens



Common Knee Conditions



Photo by: Airman 1st Class Savannah Waters VIRIN: 170601-F-DB163-045C.JPG



Osgood Schlatter



Clinical Overview. Published Dec 6, 2016. MyAthens



Patellofemoral Pain Syndrome

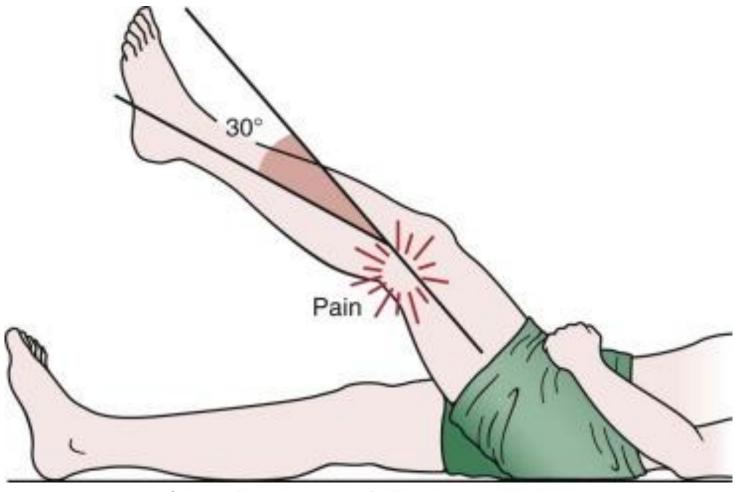


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Iliotibial Band Syndrome



Orthopedic Physical Assessment. Published Jan 1, 2014. MyAthens



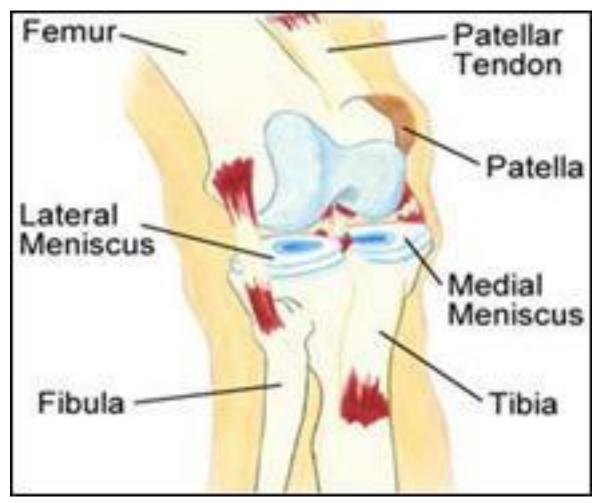
Knee Effusion



Procedures Consult. Published Mar 12, 2007. MyAthens



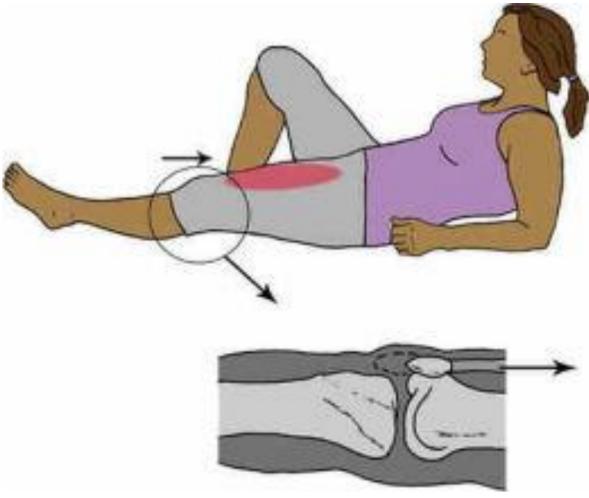
Meniscal Injuries



Patient Education. Published May 22, 2017. MyAthens



Collateral Ligament Injury



Patient Education. Published May 22, 2017. MyAthens



Cruciate Ligament Injury



Photo by: Cpl. Raquel Barraza / Marine Corps Air Station Miramar / 3rd Marine Aircraft Wing



Patellar Tendonitis



Photo by: Spc. Henry Villarama / 173rd Airborne Brigade



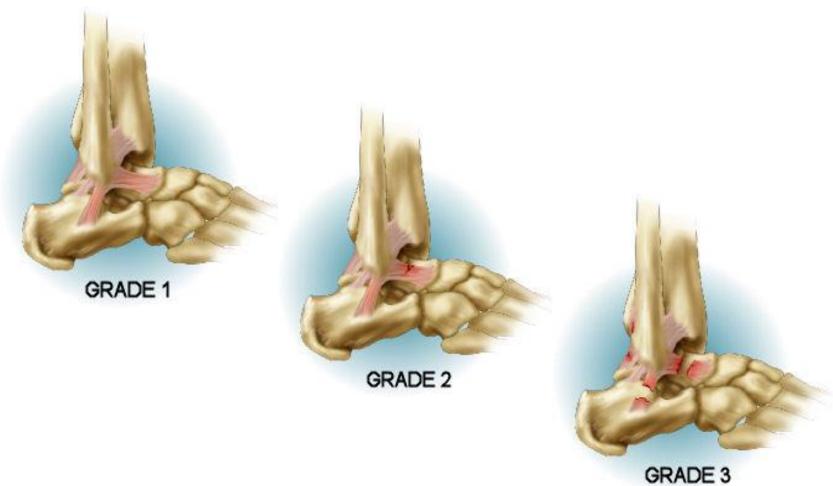
Common Foot and Ankle Problems



Photo by: Petty Officer 2nd Class Emiline L. M. Senn VIRIN: 171101-N-OR184-0856C.JPG



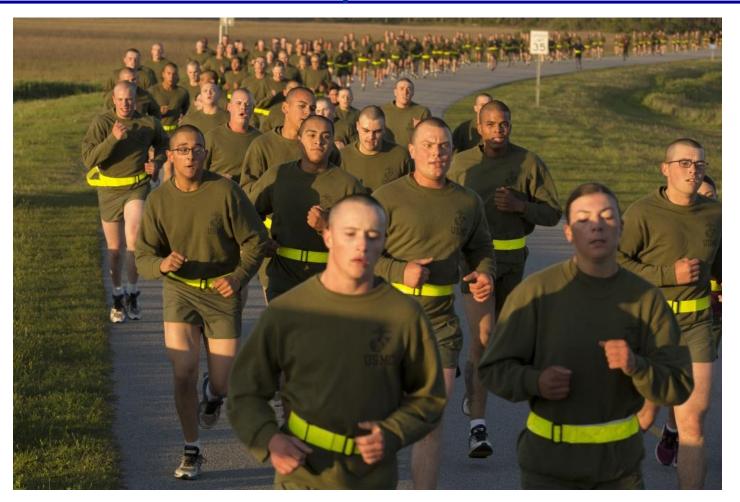
Sprained Ankle



Patient Education. Published Oct 26, 2016. MyAthens



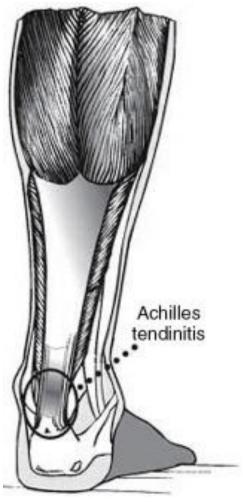
Shin Splints



U.S. Marine Corps photo by Lance Cpl. Yamil Casarreal/Released



Achilles Tendonitis



Acute and Chronic Wounds. Published Jan 1, 2016. MyAthens



Gout



Patient Education. Published Feb 1, 2018. MyAthens



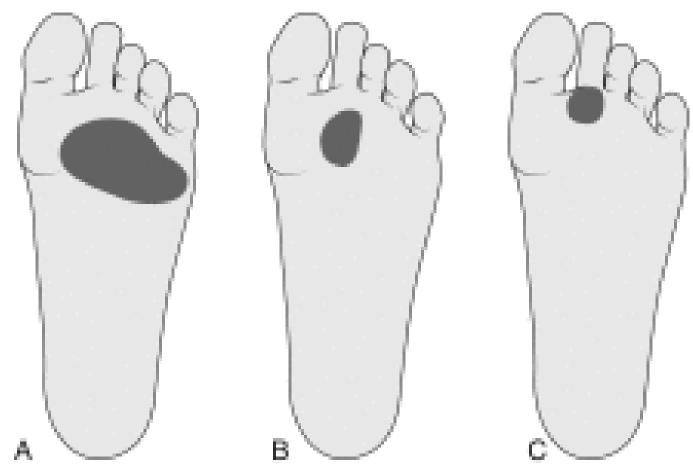
Ingrown Toenail



Goldman-Cecil Medicine. Published Jan 1, 2016. MyAthens



Metatarsalgia



Ferri's Clinical Adviser 2018. Published Jan 1, 2018. My Athens



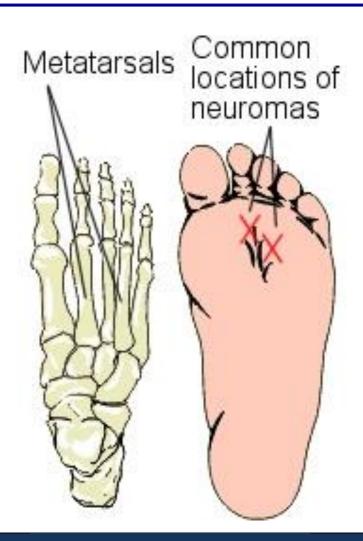
Plantar Fasciitis



Photo by: Sgt. Ty Stafford, 207th Public Affairs Detachment



Morton Neuroma



Patient Education. Published Jun 24, 2015. MyAthens



Septic Arthritis







Vascular Medicine: A Companion to Braunwald's Heart Disease. Published January 1, 2013. MyAthens



Summary and Review

- 1.46 Utilize the knowledge of musculoskeletal system anatomy while assessing a patient with a musculoskeletal complaint
- 1.47 Utilize the knowledge of musculoskeletal system physiology while assessing a patient with a musculoskeletal complaint
- 1.48 Obtain history from patient with common orthopedic disorders



Summary and Review (Cont.)

- 1.49 Perform an orthopedic examination
- 1.50 State signs and symptoms of common orthopedic disorders
- 1.51 State treatments for common orthopedic disorders
- 1.16 State Red Flag criteria



Questions





Application

Lower Extremities Job Sheet SCSC 2.9-3

SCSC Performance Test 9