

**Accreditation Statement:**

The American College of Foot and Ankle Surgeons is approved by the Council on Podiatric Medical Education as a sponsor of continuing education in podiatric medicine.

**Designation Statement:**

The American College of Foot and Ankle Surgeons designates these educational activities for CPME Continuing Education Contact Hours. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Learning Objectives:**

At the conclusion of this activity, the participant will be able to:

1. Understand design components and understand patient indication process.
  2. Objectively review the literature regarding revision
  3. Evaluate treatment approaches of fusion vs ankle implant
  4. Identify contraindications and risk factors via case based learning
  5. Know post-operative rehabilitation options.
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## Instructions

1. Watch the online video presentations.
2. Fill in your contact information on the CE Test.
3. Complete the CE Test.
4. Complete the Evaluation form.
5. E-Mail (must have Microsoft Outlook) your CE Test and Evaluation form to:  
eLearning@acfas.org

OR

Mail your CE Test and Evaluation form to  
[American College of Foot & Ankle Surgeons](#)  
[Education Curriculum & Alliances Department](#)  
8725 W. Higgins Road, Suite 555  
Chicago, IL 60631-2724

6. Please allow 6 - 8 weeks to receive your CE confirmation.

\* Please note: the minimum passing score is 70%.

## Questions

1. Which of the following is/are the ideal indication(s) for ankle arthroplasty?
  - a. Age 60 or older
  - b. No deformity in the frontal or sagittal plane
  - c. Low activity level
  - d. Healthy bone substrate
  - e. All of the above
  
2. Considerations for ankle arthrodesis include which of the following?
  - a. Young patients with physical jobs
  - b. Can be converted to total ankle arthroscopy if done properly
  - c. Leaving the medial and lateral malleolus is important for later revision
  - d. Minimizing bone resection from the talus and tibia when possible
  - e. All of the above
  
3. Contraindications to ankle arthroplasty include which of the following?
  - a. Active or suspected infection
  - b. Avascular necrosis of the talus or distal tibia
  - c. Uncontrolled diabetes mellitus
  - d. Charcot neuroarthropathy
  - e. All of the above
  
4. All of the following statements are true regarding total ankle replacements available for use in the U.S. except:
  - a. All prostheses require an anterior ankle incision to perform implantation
  - b. All prostheses require the use of polymethylmethacrylate cement for fixation to be in compliance with U.S. Food and Drug Administration mandates
  - c. A mobile-bearing polyethylene insert is markedly superior to a fixed-bearing polyethylene insert
  - d. There are limited options readily available for performing revision of the total ankle replacement prostheses available today
  - e. The total ankle replacement prostheses available for use in the U.S. continue to be widely used in the rest of the world

## Questions (Cont'd.)

5. When reviewing total ankle replacement worldwide registry data, which of the following is true?
- The Agility™ total ankle replacement was never used outside the U.S.
  - The STAR™ prosthesis continues to be widely used
  - The Salto Talaris™ fixed-bearing prosthesis is widely used
  - The INBONE® total ankle replacement systems are widely used
  - None of the total ankle replacements available for use in the U.S. are being widely used in any country that reports total ankle replacements in their registry data
6. What is the first diagnostic investigation to consider in the patient with persistent ankle pain 6 months after total ankle replacement?
- Vitamin D serum level
  - Technetium bone scan
  - Standing ankle radiographs
  - Computed tomography (CT) scan of the ankle
  - Magnetic resonance imaging (MRI) scan of the ankle
7. Which preoperative ankle deformity pattern is most worrisome for recurrent deformity and failure in total ankle replacement?
- Anterior talar translation
  - Posterior talar translation
  - Varus talar tilt
  - Valgus talar tilt
  - Varus tibial plafond angulation
8. Which of the following statements are false with respect to osteolytic cysts associated with total ankle replacement?
- They can occur both in the tibia and the talus
  - The cause of osteolysis is polyethylene wear debris particles
  - CT scan is more sensitive and specific in identifying them compared with radiography
  - Osteolytic cyst may be seen with any type of ankle prosthesis
  - Osteolytic cysts may be caused by fluid pressure at the bone-implant interface

## Questions (Cont'd.)

9. Bacitracin-infused saline pulse lavage acts through:

- a. Antimicrobial activity
- b. Formation of bubbles to remove surface debris and pathogens
- c. Stimulation of granulation tissue to promote healing
- d. Prevention of *Pseudomonas* species seeding implant
- e. None of the above

10. Infection rates can be controlled with all of the following except:

- a. Changing of surgical gown every 2 hours
- b. Changing of surgical gloves every hour
- c. Frequent pulse lavage
- d. Limiting traffic in the operating room
- e. Vascular testing

11. All of the following are techniques to prevent soft tissue/incision healing issues except:

- a. Use of Gelpi retraction
- b. Drain use
- c. Incisional wound VAC<sup>®</sup>
- d. Alternating absorbable and non-absorbable sutures
- e. Early range of motion

12. All of the following implants are available in the U.S. except:

- a. Modular stem fixed-bearing
- b. Lateral approach
- c. Mobile-bearing
- d. Posterior approach

13. “Fixed-bearing” means?

- a. Polyethylene attached to talus
- b. Polyethylene attached to tibia
- c. Polyethylene not attached
- d. No polyethylene

## Questions (Cont'd.)

**14. The lateral approach ankle has what shape?**

- a. Flat cut
- b. Chamfer cut
- c. Radius of curvature
- d. Cone

**15. What are ankle implants not capable of postoperatively?**

- a. Recreating normal ankle joint kinematics
- b. Allowing moderate- to high-level athletic function
- c. Providing a quick fix to longstanding osteoarthritis
- d. Providing minimal risk
- e. All of the above

**16. Which of the following is most important for postoperative management of a total ankle replacement?**

- a. Inpatient stay, which includes incentive spirometry, antibiotics, etc.
- b. Pain management
- c. Edema management
- d. Incision protection
- e. All of the above

**17. With a STAR™ ankle replacement, the patient should begin same-day weightbearing.**

- a. True
- b. False

## CE Test

Please type your information.

ACFAS ID #			
Name:			
Company:			
Address 1:			
Address 2:			
City:			
State:		Zip Code:	
Daytime Phone:			
E-mail:			
Signature:			

Please select your answer.

Question	Answers				
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## Evaluation

1. The course achieved its learning objectives.

strongly agree       agree       neutral       disagree       strongly disagree

2. The course was relevant to my clinical learning needs.

strongly agree       agree       neutral       disagree       strongly disagree

3. The course was relevant to my personal learning needs.

strongly agree       agree       neutral       disagree       strongly disagree

4. The electronic method of instruction was conducive to learning.

strongly agree       agree       neutral       disagree       strongly disagree

5. The course validated my current practice.

strongly agree       agree       neutral       disagree       strongly disagree

6. I plan to change my practice based on what I learned in the course.

strongly agree       agree       neutral       disagree       strongly disagree

7. Any suggestions for the ACFAS e-Learning program?

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