

# CE Exams

## Orthopedic Surgery During the American Civil War

- The use of anesthetic agents in surgery was first successfully introduced in \_\_\_\_.**
  - Vermont
  - New Hampshire
  - Massachusetts
  - Maine
- During the Civil War, most of the Battle casualties were from \_\_\_\_.**
  - Gunshot wounds
  - Bayonet stokes
  - Saber stokes
  - Cannonball injuries
- How many estimated surviving soldiers were amputees following the war?**
  - 25,000
  - 35,000
  - 45,000
  - 55,000
- What was one of the three techniques used for amputations?**
  - Rounded
  - Oval
  - Inward
  - Full
- The average length of time for an amputation procedure performed during the Civil War was?**
  - 10-15 minutes
  - 15-20 minutes
  - 20-25 minutes
  - 30 minutes
- The Minié bullet, which was blamed for most of the extremity injuries introduced in \_\_\_\_.**
  - 1859
  - 1880
  - 1855
  - 1849
- During the first ether-induced procedure noted, which operation was performed?**
  - Abdominal dissection
  - Neck dissection
  - Arm amputation
  - Foot amputation
- Who has been credited with performing three of the four open resection internal fixation of fractured bones?**
  - Dr Henry J Bigelow
  - Dr John C Warren
  - Dr Benjamin Howard
  - Surgeon General William Hammond
- Orthopedics was officially recognized in \_\_\_\_.**
  - 1907
  - 1888
  - 1887
  - 1901
- What substance was used in the first noted painless procedure?**
  - Whiskey
  - Ether
  - Chloroform
  - Opium

# The Surgical Legacy of World War II

## Part 1: Pearl Harbor, Preparation and Portability

- 1. How many American were killed during the two-hour attack on Pearl Harbor?**
  - a. 1,305
  - b. 1,803
  - c. 2,403
  - d. 2,504
- 2. Burn injuries accounted for \_\_\_ of the victims of Pearl Harbor.**
  - a. 50%
  - b. 60%
  - c. 70%
  - d. 80%
- 3. A large amount of deaths were related to the lack of knowledge of:**
  - a. Suturing
  - b. Trauma care
  - c. Trauma recovery
  - d. Anesthesia
- 4. At the time of the attack, 'anesthetists' had only been trained in a \_\_\_ long program.**
  - a. Three – month
  - b. Thirteen – day
  - c. Thirty – day
  - d. Two- month
- 5. The American Surgeon General at the time created what would later be known as:**
  - a. Portable Surgical Hospital
  - b. Mobile Army Surgical Hospital
  - c. Evacuation Hospital
  - d. Portable Medical Units
- 6. PSHs had a strict limit of \_\_\_ men who would staff the unit to ensure they remained portable.**
  - a. 20
  - b. 29
  - c. 39
  - d. 42
- 7. Lt Col Michael E Debakey, MD, helped create, develop and implement the \_\_\_.**
  - a. PSH
  - b. MASH
  - c. SCD
  - d. ASG
- 8. ASGs were arranged by:**
  - a. Surgical specialty
  - b. Amount of wounded
  - c. Amount of technicians
  - d. Surgeons available
- 9. Other significant injuries resulting from the attack included:**
  - a. Shrapnel wounds
  - b. Amputations
  - c. Compound fractures
  - d. All of the above
- 10. \_\_\_ was a great challenge to the nature of when the attack occurred and the extent of the burn injuries.**
  - a. Treatment
  - b. Recovery
  - c. Identification
  - d. None of the above

# The Surgical Legacy of World War II

## Part 2: The Age of Antibiotics

- In what year did the troops first receive penicillin?**
  - 1941
  - 1942
  - 1943
  - 1944
- Sir Alexander Fleming first discovered a bactericidal mold in \_\_\_?**
  - 1920
  - 1921
  - 1938
  - 1928
- The first antibiotic used by the US in WWII, sulfanilamide, was developed in:**
  - Australia
  - Britain
  - US
  - Germany
- Ernst Chain and Howard Florey, inspired by Fleming's research, started a mission to turn fungus into medication in \_\_\_\_.**
  - 1928
  - 1938
  - 1941
  - 1944
- In 1942, \_\_\_ of the US supply of penicillin was used to save one patient.**
  - 30%
  - 45%
  - 50%
  - 65%
- An estimate suggests that mortality rate at the time of WWII was reduced by \_\_\_ due to the role penicillin played.**
  - 10 -1 2%
  - 12 – 14%
  - 12 – 15%
  - 10 -15%
- In 1943, Colonel Henry K Beecher, MD, discovered that (a) \_\_\_ would help reduce the amount of morphine needed for a wounded soldier.**
  - Penicillin
  - Tourniquet
  - Alcohol
  - Cigarette
- The scientific team of Fleming, Chain and Florey was knighted and awarded the Nobel Prize in \_\_\_\_?**
  - 1942
  - 1945
  - 1950
  - 1947
- What fruit was discovered to possess the mold relative to Fleming's penicillin?**
  - Melon
  - Apples
  - Cantaloupe
  - Pineapple
- In \_\_\_\_, Fleming cautioned the medical community to use penicillin judiciously to halt the impact of natural selection, an effect society is seeing in the rise of "superbugs".**
  - 1941
  - 1945
  - 1947
  - 1949

# The Surgical Legacy of World War II

## Part 3: Blood and Valor

- 1. How many wounded Americans were sent home to heal from the scar of war?**
  - a. 407,000
  - b. 671,000
  - c. 822,000
  - d. More than a million
- 2. The only woman to ever receive the Medal of Honor is?**
  - a. Dr Margaret Craighill
  - b. Dr Mary Edwards Walker
  - c. Dr Molly Eisenhower
  - d. Dr Kendrick Edwards
- 3. On June 6, the first day of the invasion, a total of \_\_\_ soldiers were killed at Omaha Beach.**
  - a. 1,400
  - b. 1,800
  - c. 2,400
  - d. 3,000
- 4. How long did it take for the troops to achieve the initial stated goal of the invasion?**
  - a. Three days
  - b. One week
  - c. Two weeks
  - d. One month
- 5. The 128<sup>th</sup> Evac hospital was how many miles inland?**
  - a. A half mile
  - b. Three miles
  - c. Five miles
  - d. Six miles
- 6. From June 6, 1944, to December 1, 1944, the 3<sup>rd</sup> ASG served how many surgical patients?**
  - a. 13,162
  - b. 15,621
  - c. 17,443
  - d. More than 20,000
- 7. The first makeshift ORs were set up in \_\_\_\_.**
  - a. Shacks
  - b. Barns
  - c. Caves
  - d. Tents
- 8. Dried plasma, that was deemed safe to use in 1941, was used \_\_\_\_.**
  - a. To keep soldiers alive.
  - b. Before whole blood could be administered.
  - c. Both a and b
  - d. Neither a and b
- 9. It was determined that by giving the wounded \_\_\_\_, medics could successfully reduce the doses of morphine needed to treat patients.**
  - a. Placebo pills
  - b. Cigarettes
  - c. Water
  - d. Penicillin
- 10. The Medical Department of War abbreviated the surgical internships and residencies from five-to six-years surgical residencies to \_\_\_\_.**
  - a. 16 months
  - b. 20 months
  - c. 24 months
  - d. 27 months

## The Surgical Need – 50 Years of Surgical Technology

1. **What year was AST (then AORT) formed?**
  - a. 1959
  - b. 1969
  - c. 1979
  - d. 1989
2. **When was the first laparoscopic-assisted organ transplant?**
  - a. 1969
  - b. 1971
  - c. 1975
  - d. 1979
3. **The role of the scrub began:**
  - a. On US grounds
  - b. On battlefields
  - c. On Navy ships
  - d. Both b and c
4. **A camera was manufactured to attach to the laparoscope in the:**
  - a. 1960s
  - b. 1970s
  - c. 1980s
  - d. 1990s
5. **In what year did the Da Vinci Robotic surgical system win the US Food and Drug Administration's approval:**
  - a. 1991
  - b. 2000
  - c. 2001
  - d. 2010
6. **The world's first successful face transplant was performed in:**
  - a. 2010
  - b. 2015
  - c. 2019
  - d. Still hasn't been accomplished
7. **Referencing the previous question, how many people did it take to perform that procedure?**
  - a. 50
  - b. 75
  - c. 100
  - d. More than 100
8. **Telecommunication surgery became an event when a laparoscopic surgery between patient and surgeon happened in what year?**
  - a. 1980
  - b. 1998
  - c. 2001
  - d. 2010
9. **What type of program will allow surgeons to see details in ways they never have before?**
  - a. X-rays
  - b. Computer imaging
  - c. Augmented reality
  - d. All of the above
10. **How many years did AST celebrate in July 2019?**
  - a. 10
  - b. 100
  - c. 150
  - d. 50

# Answers CE CREDIT PKG 24: 9.5 CONTINUING EDUCATION CREDITS

AST Member No: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

## CE Credit PKG 24: 9.5 CONTINUING EDUCATION CREDITS

The fee is \$14. This package is only available to AST members.

Check Enclosed or Credit Card:  Visa  MasterCard  AmEx (due to PCI compliance AST **cannot** accept credit card payment information by fax or E-Mail, you can mail or call in your credit card information).

Card# \_\_\_\_\_ Expiration Date \_\_\_\_\_ Signature \_\_\_\_\_

### Orthopedic Surgery During the American Civil War

a	b	c	d	a	b	c	d		
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mark one box next to each number. Only one correct or best answer will be selected for each question.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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### The Surgical Legacy of World War II – Part 1: Pearl Harbor, Preparation and Portability

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### The Surgical Legacy of World War II – Part 2: The Age of Antibiotics

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### The Surgical Legacy of World War II – Part 3: Blood and Valor

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