Orthopedic Surgery During the American Civil War

1. The use of anesthetic agents in surgery was first successfully introduced in ___.
   a. Vermont
   b. New Hampshire
   c. Massachusetts
   d. Maine

2. During the Civil War, most of the Battle casualties were from ___.
   a. Gunshot wounds
   b. Bayonet stokes
   c. Saber stokes
   d. Cannonball injuries

3. How many estimated surviving soldiers were amputees following the war?
   a. 25,000
   b. 35,000
   c. 45,000
   d. 55,000

4. What was one of the three techniques used for amputations?
   a. Rounded
   b. Oval
   c. Inward
   d. Full

5. The average length of time for an amputation procedure performed during the Civil War was?
   a. 10-15 minutes
   b. 15-20 minutes
   c. 20-25 minutes
   d. 30 minutes

6. The Minié bullet, which was blamed for most of the extremity injuries introduced in ___.
   a. 1859
   b. 1880
   c. 1855
   d. 1849

7. During the first ether-induced procedure noted, which operation was performed?
   a. Abdominal dissection
   b. Neck dissection
   c. Arm amputation
   d. Foot amputation

8. Who has been credited with performing three of the four open resection internal fixation of fractured bones?
   a. Dr Henry J Bigelow
   b. Dr John C Warren
   c. Dr Benjamin Howard
   d. Surgeon General William Hammond

9. Orthopedics was officially recognized in ___.
   a. 1907
   b. 1888
   c. 1887
   d. 1901

10. What substance was used in the first noted painless procedure?
    a. Whiskey
    b. Ether
    c. Chloroform
    d. Opium
The Surgical Legacy of World War II

Part 1: Pearl Harbor, Preparation and Portability

1. How many Americans 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

1. In what year did the troops first receive penicillin?
   a. 1941
   b. 1942
   c. 1943
   d. 1944

2. Sir Alexander Fleming first discovered a bactericidal mold in __?
   a. 1920
   b. 1921
   c. 1938
   d. 1928

3. The first antibiotic used by the US in WWII, sulfanilamide, was developed in:
   a. Australia
   b. Britain
   c. US
   d. Germany

4. Ernst Chain and Howard Florey, inspired by Fleming’s research, started a mission to turn fungus into medication in __.
   a. 1928
   b. 1938
   c. 1941
   d. 1944

5. In 1942, __ of the US supply of penicillin was used to save one patient.
   a. 30%
   b. 45%
   c. 50%
   d. 65%

6. An estimate suggests that mortality rate at the time of WWII was reduced by __ due to the role penicillin played.
   a. 10 -1 2%
   b. 12 – 14%
   c. 12 – 15%
   d. 10 -15%

7. In 1943, Colonel Henry K Beecher, MD, discovered that (a) ___ would help reduce the amount of morphine needed for a wounded soldier.
   a. Penicillin
   b. Tourniquet
   c. Alcohol
   d. Cigarette

8. The scientific team of Fleming, Chain and Florey was knighted and awarded the Nobel Prize in ___?
   a. 1942
   b. 1945
   c. 1950
   d. 1947

9. What fruit was discovered to possess the mold relative to Fleming’s penicillin?
   a. Melon
   b. Apples
   c. Cantaloupe
   d. Pineapple

10. 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”.
    a. 1941
    b. 1945
    c. 1947
    d. 1949
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 128th 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 3rd 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
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
### Orthopedic Surgery During the American Civil War

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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 Need – 50 Years of Surgical Technology

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