

Pioneering Milestones in Medical History

Medicine · Answer Key · 12 Questions

1. Who is credited with performing the first successful organ transplant, specifically a kidney transplant between identical twins in 1954?

- A) Joseph Murray**
- B) Christiaan Barnard
- C) Thomas Starzl
- D) Roy Calne

2. The development of the first effective vaccine, the smallpox vaccine, is attributed to which physician?

- A) Louis Pasteur
- B) Edward Jenner**
- C) Robert Koch
- D) Alexander Fleming

3. What significant medical breakthrough in 1895 involved the discovery of electromagnetic radiation capable of passing through solid objects, revolutionizing diagnostic imaging?

- A) MRI
- B) Ultrasound
- C) X-rays**
- D) CT scans

4. Which scientist is credited with the discovery of penicillin, the first widely effective antibiotic, in 1928?

- A) Selman Waksman
- B) Gerhard Domagk
- C) Alexander Fleming**
- D) Howard Florey

5. The pioneering technique of laparoscopy, allowing minimally invasive surgery through small incisions, saw significant advancements and widespread adoption largely due to the work of which surgeon in the mid-20th century?

- A) Michael DeBakey
- B) Rene Favaloro
- C) Kurt Semm**
- D) Alfred Blalock

6. Who discovered the structure of DNA in 1953, a discovery that fundamentally changed biology and medicine?

- A) Rosalind Franklin
- B) Maurice Wilkins
- C) James Watson and Francis Crick**
- D) Linus Pauling

7. The first successful human cardiac transplantation was performed by whom in 1967?

- A) Norman Shumway
- B) Adrian Kantrowitz
- C) Christiaan Barnard**
- D) Denton Cooley

8. Which groundbreaking invention in the late 19th century allowed for the visualization of internal body structures without surgery, fundamentally changing medical diagnosis?

- A) Microscope
- B) Stethoscope
- C) Endoscope**
- D) Sphygmomanometer

9. The first cloned mammal, Dolly the sheep, was born in 1996. What type of cell was used to create Dolly?

- A) Embryonic stem cell
- B) Somatic cell**
- C) Germ cell
- D) Induced pluripotent stem cell

10. The concept and application of anesthesia, rendering patients unconscious for surgical procedures, saw its first widespread practical demonstration in the mid-19th century using which substance?

- A) Chloroform
- B) Ether**
- C) Nitrous oxide
- D) Opium

11. Who developed the polio vaccine, which dramatically reduced the incidence of poliomyelitis worldwide?

- A) Louis Pasteur
- B) Jonas Salk**
- C) Albert Sabin
- D) Maurice Hilleman

12. The isolation and purification of insulin for the treatment of diabetes was a landmark achievement in the early 20th century. Which research team is primarily credited with this discovery?

A) Banting and Best

B) Macleod and Collip

C) Osler and McCrae

D) Fleming and Florey