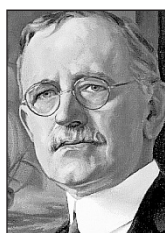


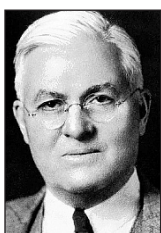
# MEDICAL HISTORY | A CLEVELAND CLINIC TIMELINE

## The early years

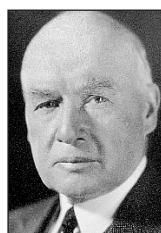
**1892:** Three of four founders of the Cleveland Clinic — surgeons George W. Crile, Frank E. Bunts and William E. Lower — practice medicine in downtown Cleveland.



Bunts



Crile



Lower

**1918:** Wars separate the partners off and on until 1918 when they were reunited during World War I at a U.S. Army hospital in Rouen, France. There they see efficiencies that could be gained by medical specialists working in cooperation. Their idea for the group medical practice — and the Cleveland Clinic — soon blossoms.



Phillips

**1921:** Crile, Bunts, Lower and Dr. John Phillips incorporate the Cleveland Clinic Foundation and open their medical practice, laboratory and research office Feb. 26 in the four-story Clinic Building at East 93rd Street and Euclid Avenue. **1924:** A modern, 184-bed hospital opens on East 90th Street.

**1928:** Bunts dies of a heart attack.

**1929:** Explosion in the Crile Building in May kills 123 people and sickens 50. Phillips dies in the disaster.

Five months later, Crile and Lower start to raise money for a new Clinic building. Lawsuits of \$3 million from the explosion settled for \$45,000.

**1943:** Crile dies.

**1944:** The Clinic counts a record 27,900 new patients.



May 15, 1929: Fumes from X-ray films explode, killing 123 people at the Clinic Building.

## Building a world-class reputation

**1945:** Dr. Irvine H. Page named director of the research division, a linchpin in the Clinic's reputation as a leader in medical research.

**1947:** Edward C. Daoust, Clinic president and chief administrative officer, dies in a plane crash, throwing the institution's administration into crisis.

**1948:** Lower, the last surviving founder, dies.

**1955:** Borrowing from the structure and operation of Mayo Clinic, the Clinic's planning committee establishes a Board of Governors for the growing hospital. Dr. Fay A. LeFevre, a cardiologist, is the board's first chairman.

**1956:** Heart surgeons Donald B. Effler and Laurence K. Groves stop and restart a boy's heart with the aid of a heart-lung machine developed by Dr. Willem Kolff. Surgeons repair a hole in the heart during the procedure.

**1958:** Cardiologist F. Mason Sones Jr. develops coronary angiography, allowing doctors to view the heart and its vessels through moving X-rays.

**1959:** Kolff, who developed an artificial kidney in 1940, establishes Clinic's kidney dialysis unit.

**1963:** Surgeons Ralph A. Straffon, Eugene F. Poutasse and Kolff transplant first cadaver kidney.

**1967:** Heart surgeon Rene Favaloro pioneers coronary bypass surgery.

**1968:** Clinic's first heart transplant.

**1971:** Dr. Floyd D. Loop refines bypass surgery techniques, extensively follows up with patients and lowers the cost of hospitalization for cardiac surgery.

**1978:** Saudi King Khalid Bin Abul-Aziz Al Saud returns for a second heart surgery.

**1981:** The Clinic begins sixth decade as Cleveland's largest nongovernmental employer.

**1980s:** Toby Cosgrove, a cardiothoracic surgeon, develops a computerized patient monitor and medical instruments that help with heart valve repair.

**1984:** Jordan's king, Hussein bin Talal, treated at the Clinic.

**1988:** Cleveland Clinic Florida opens.

**1991:** Cosgrove develops procedure that enables surgeons to repair diseased heart valves.

**1992:** Clinic performs Ohio's first heart and double-lung transplant.

**1995:** Clinic researchers get grant to develop a continuous heart pump that helps patients waiting for heart transplants.

**Mid 1990s:** Nine hospitals in Northeast Ohio purchased, launching the Cleveland Clinic Health System. With 25,000 employees, Clinic is Ohio's fourth-largest employer.

**1999:** Lerner Research Institute opens.

**2002:** Clinic's first interactive Web site — e-ClevelandClinic.com, launched.

**2003:** Clinic surgeons top 1,000 heart transplants for the first time.

**2004:** Cosgrove appointed chief executive officer.

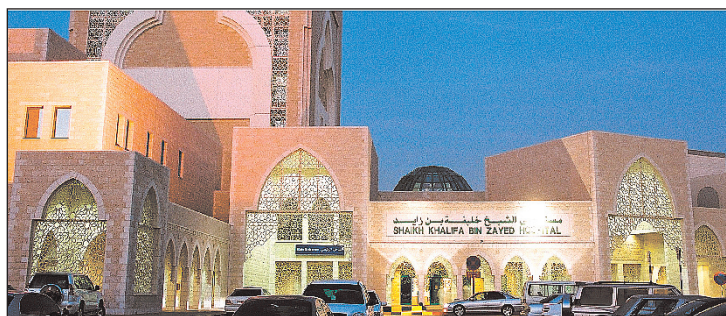
**2006:** The Clinic announces its first overseas operation — Cleveland Clinic Abu Dhabi in the capital of the United Arab Emirates



Loop



Hussein bin Talal



Sheik Khalifa Medical City, Abu Dhabi

— which it would develop, manage and staff by 2011.

**2007:** The Clinic takes over management of Sheikh Khalifa Medical City in Abu Dhabi, a network of health-care facilities that employs 4,500 people and includes acute-care facilities, a behavioral sci-