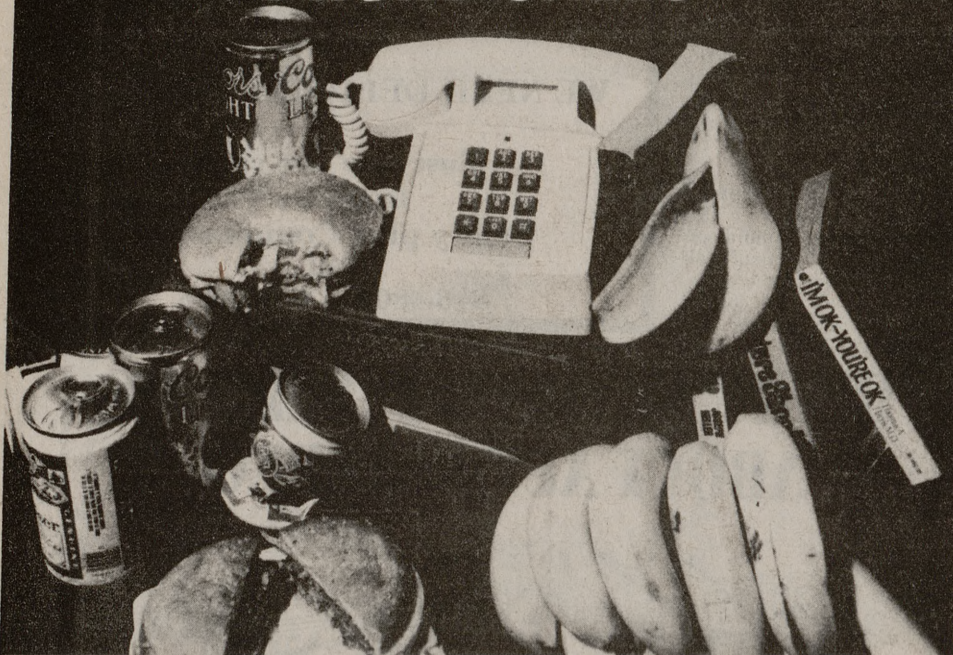


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*Parade of umbrellas*

When the rain began Thursday morning, many were caught in the downpour without the protection of their umbrellas while walking by the Memorial Student Center.

## Heart surgery has come far

United Press International  
NEW YORK — At the Texas Heart Institute in Houston, the first open-heart operation with the use of a heart-lung machine was performed April 5, 1956.

Between then and now, surgeons there did 50,000 of the operations, advancing quickly over the 27 years. Their crossing of the awesome frontiers is recalled in a report by surgeon-in-chief, Dr. Denton A. Cooley.

Reporting in the Texas Heart Institute Journal, Cooley's chronicle notes that the first patient died six weeks after attempts were made to fix his heart while it was shut down, the usual functions taken over by a cumbersome heart-lung machine.

On February 16, 1983, 27 years after that first operation, Cooley said, a 46-year old man underwent a double by-pass,

spent seven days in the hospital, was dismissed and has had a smooth convalescence.

"The contrast between the two patients is striking," Cooley said.

"The first operation was performed on a patient with a fatal complication of a severe myocardial infarction (heart attack). The second was done more as a preventive measure against myocardial infarction to provide relief of angina pectoris and restore a symptom-free life."

Tracing the evolution of open heart surgery, Cooley breaks it into several periods, as follows:

— Early Period. 1956 to 1969. Typified by use of relatively cumbersome, reusable equipment which required tedious reassembly between cases. The maximum caseload was 25 cases a year and most were congenital cardiac abnormalities.

— Middle Period. 1969 to 1970. More efficient and practical equipment was developed. Plastic, disposable devices replaced oxygen to the blood repletable reusable ones. Emphasis was on surgery for acquired heart disease. Of major importance during this period was introduction of artificial heart valves to replace diseased ones.

— Late Period. 1970 to 1983. The introduction of techniques to bypass a diseased segment of coronary artery. The first successful procedure at the Institute was done in 1965. Cooley said the technique now accounts for more than 60 percent of open-heart procedures done there. Also during this period, surgical repair for more complex congenital problems became available.

— Current Period. 1980 to 1983. The volume of open heart procedures has reached a plateau at the Institute, due to the use of a technique known as percutaneous transluminal coronary angioplasty. With this procedure, a catheter tube with a papermatch-size balloon on the end is snaked into the clogging artery. Then bursts of gas inflate the balloon to push back the blocking material, widening the opening.

Cooley said the final assessment of results from angioplasty, now used as an alternative to some types of heart operations, will be forthcoming within the next few years.

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**Salmon sperm spawns new cancer drug**

United Press International  
What's the latest lead in the search for a new cancer drug? Salmon sperm.

A protein in the sperm called protamine has been used to check the growth of tumors in mice by starving and suffocating them.

In the early stages of cancer, explains Judah Folkman of the Harvard Medical School, new blood vessels sprout from existing ones and grow toward tumor to give it oxygen and nutrients.

Protamine somehow stops these vessels from growing. The problem? Protamine is toxic to healthy cells.

"But because it is the pure compound known to stop this type of vessel growth," Folkman said, "studying how it works may help us find more therapeutically appropriate drugs."

101  
The countdown student living May graduation a short 101 days

Sick wish

United Press International  
PROVIDENCE, R.I. — Men who spend time to have an overriding goal.

Rosemary and J. grant that wish to give just about any little boy or girl a puppy dog, a pappy mouse, a Santa Claus and trip to the World are so the things 12 chronic have received from some True, a private group the Bakers' 1982.

"It begins to be a life revolves at hospital," said Linda B. daughter Melissa, from cystic fibrosis there's anything.

Melissa, a single child down her back, other active 5-year-old for the tube procedure at the Institute in 1965. Cooley said the technique now accounts for more than 60 percent of open-heart procedures done there. Also during this period, surgical repair for more complex congenital problems became available.

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The Bakers' group helping children in and nearby Massachusetts, that h

"Right now we're red dimming it, but peen wonderful," she The Tiverton Tow donated their salaries

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