

Space Devices May Find Lifesaving Roles in Hospitals

system designed for the Mercury manned satellite program. Suggested at Conference Hospital use of these and other electronic instruments was suggested at a recent sci-

By JOSEPH L. MYLER

Washington - (AP) - Clever sensing devices of the sort invented for missiles and spacecraft may some day get lifesaving roles in earthbound hospitals.

When that day comes, it has been suggested, "Patients admitted to hospitals will not

only be put to bed but also tell a satellite when to tilt away from or toward the earth's horizon. They are vital part of the pilot escape entific conference here on space technology's potential contributions to medicine.

Sensors would continuously monitor a patient's heart action, respiration, blood pressure, and temperature, and relay the information by telemetry to a central control panel.

The system could be arranged to sound an alarm summoning a nurse or physician.

Specific electronic instruments already have been developed for diagnosis and treatment. One is a tiny transistor device which can be planted under the skin to correct heart block. Another monitors the heartbeat of a baby being born.

Electronic systems for mapping the human brain also were described. This may throw new light on brain waves and help in the diagnosis of brain disorders.

Stimulates Heart The Westinghouse Electric Corp. has produced what it calls a "cardiac pacer," an electronic unit which can

stimulate a faltering heart. It is a transistorized device powered by two extremely small mercury batteries.

By means of electrodes placed on the chest, or on the heart during operations, it emits electrical impulses to "trigger the heartbeat."

Another Westinghouse device, which may be used with or separately from the pacer, is the "cardiac monitor." It will be able to broadcast an alarm signal up to 2 1/2 miles to a receiver carried by a doctor.

Missile Explodes During Fueling; AF Investigating

Vandenberg Air Force Base, Calif. - (AP) - Air Force scientists carefully gathered bits and chunks of wreckage over an area several square miles wide today to determine why a huge Titan missile exploded during fueling.

The missile itself, capable of hurling a three-ton atomic warhead 9,000 miles, was valued at about \$4 million.

No injuries. There were no injuries. No warhead was attached to the 110-ton Titan when its explosion brought residents from as far as 25 miles running out into the night to look and wonder at the brilliant orange glow in the sky above this Pacific missile range about 180 miles north of Los Angeles.

The Titan, carrying nearly 90 tons of volatile fuel, was partly in its 158-foot "silo" at the time of the explosion.

Damage Unknown An Air Force official asked how badly the "silo" was damaged, said it was unknown, but he added:

"Just imagine the force of explosion when that beast with 90 tons of fuel in it let go."

Unofficial sources said \$1 million would be a conservative estimate of the damage. The Titan, being readied for its first launching within about 10 days, is stored at the bottom of a cement-lined hole more than 40 feet wide and 188 feet deep. It is lifted to the surface on a large elevator for firing.

Venezuela Expels Cuban Agitators

Caracas - (AP) - The government has expelled 10 Cubans from Venezuela and is investigating about 40 others in an effort to determine whether Fidel Castro's Cuban regime fostered last week's bloody riots.

The government has declined comment so far on the U.S. charge that Castroites supplied money and arms to Communist-led student rioters who sought to overthrow President Romulo Betancourt.

The last pocket of major resistance, a half-finished university building where about 1,000 Red-jed students holed up for a "Stalingrad" siege, gave up Friday ending a wild week during which at least 15 persons were killed, more than 200 wounded and more than 400 arrested.

Well-informed sources said the government would make no charge against the Castro regime unless it could find undisputable proof of its participation in the "conspiracy."

California GOP Backs Dick Nixon

Los Angeles - (AP) - Vice President Richard M. Nixon has received "100 per cent support and loyalty" of the California Republican State Central committee, as head of the GOP.

The pledge of support was issued by the group Sunday after a week end meeting. It followed statements by such GOP leaders as Sen. Barry Goldwater of Arizona and Gov. Nelson Rockefeller of New York who have declined to acknowledge Nixon as the party's leader.

Rockefeller said last week he believed GOP leadership should be "collective" while Goldwater said that President Eisenhower presently was the leader.

The state committee sent its pledge to Nixon in Washington, and also congratulated him on winning his home state of California.

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