Rx For The Doctor's Paperwork: Automation

By JIM CHOATE
Marcury Statt Writer
SUNNYVALE—Lockheed Missunvivale—Lockneed Mis-illes & Space Co. here Monday unveiled a dynamic multimil-lion dollar plan to automate the doctor's prescription pad.

doctor's prescription pad.

A high-level Lockheed brain frust showed Santa Clara County Supervisors its proposed "hospital information system," pushing computers into clinical modicine with such startling gadgels as video receivers and light pencils."

Dr. B. L. Ilisey, physician as well as electronic systems expert, said the system is aimed at alleviating a situation in which nurses spend "20 to 70 per cent of their time on paperwork away from the patient."

Hisey told the board the plan would curb mounting hospital coast and relieve doctors for more patient care.

In the highly, sophisticated system, for example, nurses, physicians and other medical personnel would program a computer center through a video matrix input-output device, a type of television receiver, with all patient data.

Personnel would operate the video device with magnetic identification cards coded according to their role in the medical profession or hospital strata.

Upon an attending physician's command, computers will feed the latest patent data back to a video screen. Using a "light penell," he can prescribe medication, dosage, frequency and

other orders by simply pointing at any one of a wide range of medical treatment categories flashed on the screen.

flashed on the screen.

Rapidly, the system can give the doctor all laboratory, X-ray, medication and other facts regarding his patient, from such remote points as other hospitals and, ultimately, even his office. Medical orders fed through the video input devices to computers and relayed to nurses and other medical staffers are verified when a "dark assembly" is lasshed on the screen for the doctor's checking.

"It's three times as fast as the conventional entry." Hisey told supervisors.

In conventional handling of medication information, he de-

clared, errors run as high as 16 per cent.-

. Reey said the American Medical Association-endorsed plan depends on physician accept-ance" as its key to success.

ance" as its key to success. He said a pllot program in Santa Clara County would take about three years to develop completely. It has been proposed to the U.S. Public Health Service and studies toward its implementation have been conducted at El Camino Hospital at Mountain View and a team is now checking County Hospital, he said. Hilley said Lockheed proposes a pllot system using El Camino and County Hospitals and possibly Los Gatos Community Hospitals. Hospitals, he said, could

*

cut system costs by sharing a computer center. Board Chairman Charles A. Quinn said he'd hate to end up "having a baby instead of hav-ing an appendix taken out" through some quirk in the sys-tem.

tem.

Ilerschel J. Brown, Lockheed
executive vice president, noted
the importance of physician acceptance.

Lockheed officials also presented details of their space-age
statewide information system
study, calling for an ultimate
federation of governmental com-

rederation of governmental com-puter centers.

Presumably because of its ploneering LOGIC computer data bank plan, Santa Clara County has been picked as pilot in a county-state-federal

computerization study.
Gov. Edmund G. Brown has
announced the state signed a
contract with Lockheed to make
a study for the state information system.

Brown also announced a \$335.

a study for the state informa-tion system.

Brown also announced a \$335600 federal grant for the study.

The U.S. Urban Renewal Administralion will make a \$225600 grant for the computer
study, Brown disclosed. The
state will contribute \$\$5,000 and
Santa Clara County \$25,000 and
Santa Clara County \$25,000 and
Foresomed or equipment services.

Without a statewide computerized information system on people, and other data, Lockheed
officials said, the state will have
enough paperwork to fill 334
miles of filing cabinels stretching from Sacramento to Los Angeles by 1990, Lockheed offi-

clais claimed.

If the present way of handing information continues, by 1990 it will cost the sials nearly \$2 billion. If the plan proposed by Lockheed is put into effect, by 1990 it will save the state-silo million annually. they said.

This is contrasted to a \$10 million annual cost of developing the system over 10 years and a \$13.5 million a year cost of operating it thereafter, officials noted.

Despite the interlocking computer systems of city, county, special district and state overments to build a mass of data, local jurisdictions would retain the nutonomy of their own data systems. Lockheed spokesmen explained.

SAN JOSE, CALIF., TUESDAY MORNING, JANUARY 18, 1966

15Z