YES

NO

Monday, March 17, 1980 MSU study

Body can beat zinc deficiency

Zinc deficiency can ruin the body's natural immunity to disease, but new search at Michigan State University indicates immunity can be restored simply by returning to a proper dise.

"We knew lack of zine made the body unlerable to disease," explained Dr. Pamela J. Fraker, immunologist with the MSU Depart ment of Biochemistry. "What we needed to find out was. If a child locked into permanent bad with the control of the con

relies heavily on a diet of cereals, with-out enough meat or milk, the MSU' researcher said. "It can be found any-where diets are inadequate," she add-ed. "You rarely find someone malnour-ished only in zinc."

Ms. Fraker's work with zinc was started at the urgin of MSU's Dr. Richard W. Luecke, also a professor of biochemistry, known for his study of the effects of trace elements in nutri-tion. THE IMMUNE system in humans and animals produces specialized cells which ingest and inactivate invading disease organisms. The blood and other do body fluids also dissolve foreign

do body ituus also bacteria.

When zinc is absent from the diet, that immune system quickly deteriorates.

"This has only been known for a few

"FOR YEARS physicians and clini-cians have known that malnourished children are more vulnerable to dis-ease,"Ms. Fraker noted. "It doesn't even help to vaccinate these childfren."

years," Ms. Fraker said. "Even now, we're still reaching an awareness of how much damage can be caused by even marginal zinc deficiency."
Nutritionists recommend about 18 milligrams of zinc a day for adults, but this requirement varies drastically between individuals, Ms. Fraker feels.
Zinc deficiency often occurs in the Mideast, where much of the population relies heavily on a diet of cereals, without enough meat or milk, he MSU Her work on recovery of the immune system uses mice, since it would be impossible to do a controlled experiment on dietary deficiency in humans. "But I'd be shocked if the findings with these lab animals didn't apply to humans," she said.

In a side-by-side comparison, one group of mice was given adequate amounts of zinc in their food, the other group a diet adequate in everything but zinc.

With young adult mice — the equiva-

"But we found that even an animal close to death could be quickly brought back by feeding it an adequate diet. She has just received a three-year back by feeding it an adequate diet. The property of the pro

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or about two oasy curing the recover-where the previously deficient neo-nate's immune capacity was almost double normal. Were studying that phenomenon now." SINCE the drastic effects of zinc deficiency have only recently been doc-umented, dietary problems are not lim-ited to the poor, Dr. Fraker pointed nout.

group of mice was given adequate independent of the poor, Dr. Fraker pointed amounts of zinc in their food, the other group a diet adequate in everything but zinc.

With young adult mice — the equium out uncommon to leave trace elements with young adult mice — the equium out of baby formula... or intravenous lent of 10- to 16-year- old huguinas — tot of baby formula... or intravenous most branches of the immune system in the zinc-deficient animals, "Ms. "There have also been problems in the zinc-deficient animals," Ms. "There are added sessential vitamins and in the zinc-deficient animals," Ms. "But we found that even an animal close to death could be nutickly brought."

Kuhngets salary hike from sewer budgets

hike, Lawrence Per-nick (right), D-Southfield, had

sioner George Kuhn (above) got a \$6,000 increase resalary increase re-cently, but it wasn't that easy. Although Lillian Moffitt (left), R-Birmingham, was one of those who voted in favor of the

By TOM LONERGAN

A \$6,000 salary increase for Drain Commissioner George Kuhn was ap-proved 17-9 last week by the Oak-land County Board of Commission-

land County Board of Commissioners.

The increase brings the elected official's salary to nearly \$44,900, an increase of nearly 16 percent.

It will be funded from the budgets of six federally-backed sewer projects under way in the county. The projects are also financed by county bond revenues.

Kuhn, of West Bloomfield, is in charge of the projects whose budgets total between \$150 million and \$200 million. They include sewer main construction in West Bloomfield and Avon townships.

Kuhn was selected as manager of the projects by the county board, this supporters said the raise was in recognition of Kuhn's additional du-ties. Kuhn has been in charge of some of the projects for the past two years, said Chief Deputy Drain Commissioner Robert Fredericks.

Fredericks said the sewer project budgets include money for adminis-tration.

ation. Kuhn is also administrator of the Kunn is also administrator of the Southeastern Oakland County Sew-age Disposal System for which he receives \$1,200. Before last week's raise, Kuhn's salary was \$37,973. He's also a member of the county Parks and Recreation Commission

He's also a member of the country
Parks and Recreation Commission
which pays \$35 a meeting.
REPUBLICAN COMMISSIONEBS G. William Caddell of Walle
Lake, Henry Hoot of Troy, John
McDonald of Farmington, Joseph
Montante of West Bloomfield, John
Peterson of Rochester, Lillian Moflitt and Robert Page, both of Birmingham, and Democrat Alexander
Petinoff of Southfield voted for
K.
K. Southfield, and West Gorsline, R.
Milliong were Ralph Moxley, R.
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