'Rotten egg' drug controls rare disease in children

A diagnosis of the rare genetic dis-case cystinosis used to be a death sentence for a baby or todder. Now a drug offers much hope. Clinical trials show the drug cys-teamine preserves kidney function in children suffering from cystinosis. The tests were performed by Jess G. Thoene, M.D. a University of Mchigan professor of pediatrics of the control of the control

Michigan professor of pediatries and communicable diseases, and 10 other physicians and scientists. Their research was published in The New England Journal of Medicine. Cystechnine is 'very unpleasant,' Cystechnine is 'very unpleasant,' or the second of the second of

their first birthday."

CYSTINOSIS is a rare disease, affecting an average of one child in every 100,000 live births. Theone, who is also an assistant professor of biological chemistry at 100 lives and 100 lives are 100 lives at 100 lives

has a constantly wet diaper and an unquenchable thirst.

Eventually, these children accumulate so much cystine in their cells— up to 100 times the normal amount—that their growth is stunted. The amino acid begins to crystallize in their bone marrow, corneas and kidneys.

In the past, children with the discase died of kidney failure by the age of 10. The only known treatments before cysteamine were long-term dialysis or kidney transplants. Neither technique, however, could help the body get rid of the excess cystine.

"THIS PROJECT has taken a long time, but it's been very exciting — the most rewarding work of my ca-reer," said Thoene, who began to re-search cysteamine with skin cells in 1975 and to do clinical trials in 1978.

search cysteamine with skin cells in 1978. In 20 collical trials in 1978. Thosene became interested in cystunosis in 1978 while he was conducting research with Jurry A. Schneidres and the convexity of the New England Journal article.

Schneider was exploring ways of ridding the tissues of cystine. Thosene began to experiment with the aminothiol compound, cysteamine, on cell cultures of skin cells. The results were positive not only in the cultures but in a young patient who was facing a kidney transplant.

Thosene and Schneider applied the Food and Drug Administration for emergency Investigational New Drug status for cysteamine. Therapplication was accepted.

They and other researchers began clinical trials, using the facilities of the clinical research centers at their respective institutions. Of the 93 children who were in the study, 19 eventually dropped out because they couldn't tolerate cysteamine.

Cystinosis is like diabetes — no cure is known. But at least now there is a drug that can help manage the disease.

Diabetes is a major contributor to heart disease,

blindness. So when you

support the American Diabetes Association, you fight some of the worst diseases of

kidney disease and

our time.

eventually dropped out occause tney couldn't tolerate cysteamine.

MAKING THE drug more palatable by masking its taste and smell is a long-term project which Thoene bapes a drug company will under a drug companies of the second of the second in manufacturing drugs for rare discases, no matter how effective the cure.

"It is frustrating that business decisions take precedence over saving lives," he said, crediting two parties whose help was crucial in continuing the drug trails of cysteamine. U.S. Rep. Henry Waxman, D.Los Angeles, spoosred the Orphan Drug Act, tegislation passed by Congress in 1935 which uses tax incentives to make the business climate more favorable for production of orphan brug for rare diseases. The Generic Pharmaceutical Industry Association Institute for Orphan Drugs gave the researchers a grant to purchase enough cysteamine to finish the clinical trails. But that supply is running out, and a new source of the drug is needed.

THE LONG-TERM Impact of cysteamine on cystinosis patients Isn't known yet. "Our oldest subject is nine years old, so we don't know what the next decade will bring for them," said Thoene.

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