

COPPER IN FOOD FOUND TO BE GREAT HEALTH HELP

ANEMIA CASES MAY BE CURED BY RED METAL

Experiments on Rats Yield
Astonishing Results,
Scientists Report.

MORE VITAL THAN IRON

New Discovery May Change
Ideas on Dietetics,
Stock Feeding.

By Science Service
ANN ARBOR, Mich., April 12.—Copper, the red metal, is an essential factor in the diet to keep the blood red and the body vigorous, a group of University of Wisconsin chemists, headed by Dr. E. B. Hart, announced here this morning at the meeting of the American Society of Biological Chemists.

Copper may become acknowledged as one of the more essential requisites in human nutrition and livestock feeding. The Wisconsin experiments indicate that it exerts a tremendous influence on anemia in rats, a disease similar to anemia in children who have been fed exclusively on milk. The malady in both rat and child is caused by a blood stream.

More Important Than Iron

A shortage of iron has been credited with being responsible for the disorder, and although iron compounds are still limiting factors, their effectiveness, according to Wisconsin investigators, depends on the presence or absence of copper. The investigations covered four years, and Dr. Hart was assisted by his colleagues, Drs. H. Steenbock, C. A. Elvehjem and J. Waddell.

Because milk is notoriously low in iron and hemoglobin is rich in the mineral, it has always been assumed that the way to correct anemia was to add iron to the milk diet.

In the case of animals this plan proved ineffective. The daily feeding of iron, administered as chloride, sulfate, acetate, citrate or phosphate, all prepared from pure iron wire, did not check the decline in the hemoglobin content of the blood. Rats suffering with anemia were not improved.

However, when a supply of iron was obtained by feeding dried liver, or the ash of dried liver, corn, or lettuce, the hemoglobin was raised to normal and the stricken rats immediately restored to health.

Liver Cures Anemia

In ashing the foodstuffs, the investigators noted a pale, bluish color, the typical hue produced when copper compounds are burned. Observation of this peculiar color, in addition to the fact that copper is known to be present in the respiratory pigment, hemocyanin, of certain crustacea, led the chemists to use copper sulphate as a supplement to pure ferric chloride in the whole milk diet.

Striking cures resulted. Rats, so anemic that their days appeared to be numbered, recovered immediately and the hemoglobin in their blood was brought to normal.

"What about pernicious anemia in man?" the chemists asked. Patients suffering with anemia have been told to eat liver, advice which has evidently made a wide impression, judging from the rise in price of what was once poor man's meat. However, some sufferers find liver unpalatable, especially when eaten in large quantities. Harvard University scientists have prepared a liver extract which has proved exceedingly efficacious in abating the disease. In the Wisconsin experiments, this product was ashed and fed the anemic rats. When fortified with ferric chloride, it also proved effective in correcting the ailment. Thus this product which has been most successful in treating man corrected the deficiency in rats.

Copper's role in plant and animal tissue is not clearly understood. It is found in mills in small quantities. Its function in producing

Make Home Show Success



T. E. Grinslade



Walter M. Evans



William Lowe Rice



M. M. Miller

ing hemoglobin is, as Hart stated, idle to speculate. Hemoglobin may not contain copper, at least no evidence to the contrary has yet been produced. In this connection, copper may act as a catalyst, an agent which starts an action without being changed itself. It may promote the building of hemoglobin. Iron functions in a similar manner in the production of chlorophyll, the green pigment of vegetation, although it is not a constituent of the chlorophyll molecule.

Experiments with the use of copper in the diets of anemia patients will be undertaken in the near future at certain leading hospitals. If this organic substance plays the part in the human system that it does in the life of white rats, nutrition specialists will probably give as much consideration to the copper content of foodstuffs as is now paid to some other elements, such as phosphorus, calcium, and iodine. Future experiments at Wisconsin will also approach the problem from this standpoint, as the copper content of animal feeds is known to vary widely.

NEGRO IS SOUGHT IN THREE CITY BURGLARIES

Descriptions Given by Two of
Vic-tims Tally, Say Police.

A Negro was believed responsible for three north side burglaries late Wednesday, but police so far have failed to take him into custody.

Donald Black, 645 E. Thirty-Third St., described a Negro he saw leaving his garage carrying a tire, tube and mahogany table, value, \$15.

John M. Casey, 1643 S. Meridian St., collector for a furniture store, says a Negro leaving the back yard of Walter Evans, 4625 Kenwood Ave., Casey found a rear window broken. Both descriptions tallied.

Mrs. Ulysses Lotz, 2236 N. Illinois St., returned home late Wednesday to find \$30 in cash and a \$15 watch taken from her home.

Mrs. Henry Haag, 17 E. Regent St., valued sixty chickens taken from her coop at \$60.

THREATENING COLD ENDED QUICK WAY

Relieved in Few Hours When
Doctor Advised Home Use
of Pleasant Method



with no trace left of the cold.

Note: See other cases reported daily

—all certified by the attending physician.

Doctors recommend Cherry Pectoral because it not only stops coughing spells but penetrates and heals inflamed linings of the breathing passages. Absorbed by the system, the medication easily removes phlegm helping to stop the "feverish" grippe feeling and drives out the cold from nose passages, throat and chest.

Just a spoonful of Cherry Pectoral and you will feel like a different person tomorrow. At all drugstores, 60¢ and, twice as much in \$1.00 hospital size.

Relief began almost immediately. In a few hours the "feverish" grippe feeling was gone and after a good night's sleep her head and chest had cleared up almost entirely. In another day or so, her doctor reports, she was as well as ever.

AYER'S
Cherry Pectoral
for COLDS and COUGHS
HOSPITAL CERTIFIED

WILL ROGERS TO TALK ON POLITICS, LINDY

Famous Cowboy Humorist Comes
Here April 22.

The political situation and Lindy, will be Will Rogers' principal subjects when he appears at the Indiana National Guard Armory April 22 under auspices of the National Guard.

The cowboy-humorist, besides giving his humorous monologue on current events, will tell of his experiences while a guest of the Mexican government with Lindbergh.

The Koehne Ensemble, an organization of Indianapolis women harpists, will provide the music, Adjutant General William H. Kershner announced. Members of the organization are Mrs. Louise Schell-schmidt Koehne, Mrs. Albert McVay Gaunt, Mrs. Georgia Henley Lacey, Mrs. Grace Marone Ryan, Mrs. Bertha Gehr Miller, Mrs. Inez Van Cleave McNutt and Miss Marjorie Call.

Just a spoonful of Cherry Pectoral and you will feel like a different person tomorrow. At all drugstores, 60¢ and, twice as much in \$1.00 hospital size.

By Wading in Creek Drowns

COLUMBIA CITY, Ind., April 12.—Ale Goodrich, 7, son of Mr. and Mrs. Donald Goodrich, north of here, was drowned near his home Wednesday afternoon while wading in a creek.

Every druggist has these medicines in both fluid and tablet form. Write Dr. Pierce, President of the Invalids' Hotel in Buffalo, N. Y., and send 10¢ for trial pkg. of tablets.—Advertisement.

OPEN BIDS ON 35 BRIDGES FOR INDIANA ROADS

Low Estimates for \$325,
272 Falls Below Figures
of State Engineers.

Bids for thirty-five bridges to be constructed during 1928 by the State highway department were opened today after 113 proposals had been submitted.

The low bids totaled \$325,272 while the estimate of the highway department engineers was \$365,402.79.

Proposals were: Two bridges on State Rd. 7, Jefferson County; low bid and bid, Harry Hicks, North Vernon, \$10,878; two on State Rd. 10, one on State Rd. 53, Jasper County, Gorman Engineering Company, Hammond, \$13,357; two on State Rd. 10, two on State Rd. 29, in Starke County, and one on State Rd. 29, Pulaski County, Winamac Cement Products Company, Winamac, \$21,655.

Two in Union County

One on State Rd. 24 in Cass County and one on State Rd. 24, Miles Oil, Fred Perry, Logansport, \$15,376; two on State Rd. 27, Union County, R. L. Schutt, Indianapolis, \$13,789; one on State Rd. 28, Randolph County, Frank A. Clements, Williamsburg, \$6,214; one on State Rd. 28, Randolph County, Tharp & Tharp, Fountain City, \$13,485.

One on State Rd. 30, Allen County, Wrightsman & Gray, Mooreland, \$17,924; two on State Rd. 30, Allen County, Levi Pabst, Woodburn, \$16,697; one on State Rd. 34, Montgomery County, Vincennes Bridge Company, \$4,457; one on State Rd. 37, Monroe County, an overhead over the Monon railroad, near Rockville, \$29,311.

One Bid for \$25,241

Three on State Rd. 38, one in Henry and two in Wayne Counties, I. E. Smith Construction Company, Richmond, \$23,241; one on State Rd. 40, Hendricks County, Tharp & Tharp, Fountain City, \$23,673; one on State Rd. 43, Putnam County, David P. Reichard, Crawfordsville, \$5,434; on State Rd. 45, in Spencer County, R. P. Olinger, Huntingburg, \$9,502.

One on State Rd. 46, Brown Company, W. C. Ellis, Rockport, \$37,954; one on State Rd. 52, Dearborn County, Vincennes Bridge Company, \$17,421; one on State Rd. 52, Rush County, Vincennes Bridge Company, \$11,971; one on State Rd. 52, Sullivan County, Vincennes Bridge Company, \$14,595; one on State Rd. 65, Posey County, R. P. Olinger, Huntingburg, \$7,540.

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