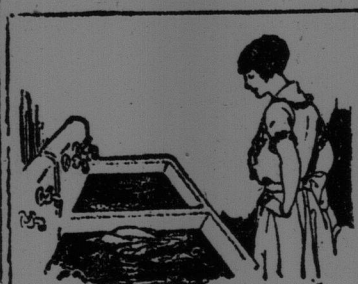


SERUM BOON IN FIGHTING DIABETES

Ravages of Disease Checked by Insulin Discovered by Canadian Doctors—Found in Pancreas Tissue.

(New York Times)
Experiments in the treatment of diabetes, hitherto regarded as practically incurable, have met with remarkable success, according to reports by officials of the Carnegie Corporation, which has made an appropriation for research work at the Potter Metabolic Laboratory and Clinic in California. The treatment that is being administered has given relief in practically all the cases under observation.
The ravages of the disease have been checked by application of a serum discovered by Canadian physicians working under Dr. J. J. R. Macleod of the University of Toronto. This serum has been used at the Potter laboratory. Thus far relief has been dependent upon constant application of the serum. It is too early, physicians say, to describe the treatment as a "cure" for diabetes, for the experiments at the Potter laboratory have been going on for only about eighteen months.
Dr. Henry S. Pritchett, President of the Carnegie Corporation, who recently visited the Potter clinic and observed the experiments there, has made a report on the study and treatment of diabetes, for incorporation in the annual report of the corporation.
Dr. Potter's metabolic research began at the French Hospital here. He re-

moved to Santa Barbara, Cal., where a metabolic clinic and laboratory was built by public-spirited Californians. The Carnegie Corporation has aided the work by an annual appropriation. Dr. Potter died in 1919, and since then the work has been carried on under the direction of W. D. Sansum.
Intensive studies on the internal secretion of the pancreas had been carried on in the meantime under Dr. Macleod in Canada. It has long been known that some pathology of the pancreas is responsible for diabetes. Dr. F. G. Banting, working under Dr. Macleod, carried on intensive experiments to extract a substance from pancreatic tissues. This substance was first injected into dogs suffering with diabetes. The diabetes symptoms disappeared with the application of the serum, which is known as insulin. Convincing results of the efficacy of the serum were obtained by Dr. Banting in the cases of humans suffering with the disease.
"On account of the admirable facilities in the Potter Metabolic Clinic in Santa Barbara and the opportunity offered by the close association of laboratory and hospital," Dr. Pritchett's report says, "Dr. Macleod and his associates most generously and kindly communicated to Dr. Sansum and his staff in Santa Barbara such full information as they had and because of the urgent need for such an extract of the pancreas urged their immediate co-operation. With the information thus generously given through Dr. Macleod, the staff of the Potter Metabolic Clinic began strenuous efforts in the isolation of the internal secretion of the pancreas now known as insulin. They were immediately successful and within two months had been able to secure a sufficient amount of insulin to use on nine severe cases of diabetes.
Success of Treatment Established.
The results have been so convincing that there can be no doubt of the great value of this substance in the treatment of diabetes and it is quite within the possibilities that the discovery may re-



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sult in the relief and cure of great numbers of people from this scourge. The following cases will illustrate the extraordinary sort of results which have been obtained:

"A patient of 53 years of age was sent to the clinic on the verge of diabetic coma, apparently death within a few days awaited him. Following the administration of insulin he became immediately free from sugar, his diet could be increased to normal and he is rapidly gaining in strength and weight.
"A boy of 12 in extreme illness through diabetes became free from sugar after twenty-four hours of treatment with insulin has remained free although his diet has been increased to practically normal. This boy is gaining weight at the rate of half a pound a day and is leading the type of life that any normal active child would lead. By the older dietary methods partial starvation would have been necessary even to prolong life, to say nothing of restoration to health. The results in the other cases have been equally astonishing.
"The problem is of course still in its infancy. Insulin is prepared at present at very great expense. Cheaper methods of production must be devised. A study of the intricate chemistry of the product will undoubtedly add materially to our knowledge of the oxidative processes going on in the body about which practically nothing is known at present. But the great gains seem to be that patients with the use of this new agent will not only be able to be sugar free, but will be able to have normal diets with the strength and health which can come alone from the use of such food.
"The brilliant success which has come from this study and the still more bril-

liant prospects of the future which it holds out forms a source of the greatest encouragement to the trustees of the corporation that their gifts may, if given with discretion, advance the cause of medical knowledge and thereby increase human happiness and usefulness in the most desirable fashion. Mr. Carnegie had always in mind the desire to find the efficient man and enable him to do his work. Not every research can show the brilliant results which have come out of these investigations, but all patient, long-continued study adds little by little to the sum of knowledge, enriches life, and helps to turn away misfortune.
"Not the least pleasing feature of this investigation lies in the generous and admirable attitude in which two sets of investigators, each of whom has received modest help from the Carnegie Corporation have co-operated toward their common end. It was a graceful and generous act on the part of Dr. Macleod and his colleagues to put at the service of the Potter Metabolic Clinic the full results of their important research, but this action is in entire consonance with the spirit and the purpose of true scientific research."

375 KINDS OF ALGAE.
New York Harbor and Adjacent Waters Rich in Seaweeds.

More than 375 kinds of marine algae or seaweeds proper have been found in the waters of New York and its vicinity, although, owing to the market increase of commerce and of sewage, New York Bay itself is not so good a collecting ground for seaweeds as it used to be. Fifty or seventy-five years ago, said Dr. Marshall A. Howe, curator of the New York Botanical Garden, an expert of the marine algae, the subject in the Museum Building of the Garden.
While "The Sea Weeds of New York and Vicinity" was Dr. Howe's title, the term "vicinity," he told his audience, interpreted rather liberally, as it was a radius of one hundred miles, with the radius stretched a little to include the whole of the New York and New Jersey, as has been done by the Torrey Botanical Club in its studies of the local flora.
There are still places within the greater city, as at Hunter's Island in the Bronx and Jamaica Bay in Queens, where a goodly number of marine algae or seaweeds may still be found, growing in shallow water or on the rocks and stones between the tide-lines. While the local marine flora is not so rich in species and forms as the flora of certain equal areas in Bermuda, the Florida Keys, the West Indies and California, yet it possesses elements of interest both to the scientist and to the collector for the curious and beautiful.

Among the attractive ornamental forms are *Dasya pedicellata*, which was discovered by Professor John Torrey of New York and sent by him to Europe for its first naming just about one hundred years ago, and *Grinnellia americana*, which was dedicated to Henry Grinnell the New York merchant and philanthropist who fitted out the arctic expedition for the relief of Sir John Franklin and whose name is further commemorated in the Grinnell Land of the Arctic region.

THE CUP SPORT TROPHY.
(Toronto Star.)

"For years," says the editor of the *Conning Tower* in the *New York World*, "they have been trying to devise some substitute for the cup as a sport trophy. We might suggest a gold platter," and he goes on to explain that a gold platter, as everybody knows, is something a candidate wouldn't accept a nomination if it were offered to him upon. The *Conning Tower* man jests, of course, but platters are preferable to cups for more genuine reasons. The stuff they are supposed to put in cups gets scarcer every year, and as a result there is more use for the platter in many families where at one time they didn't use them very often.



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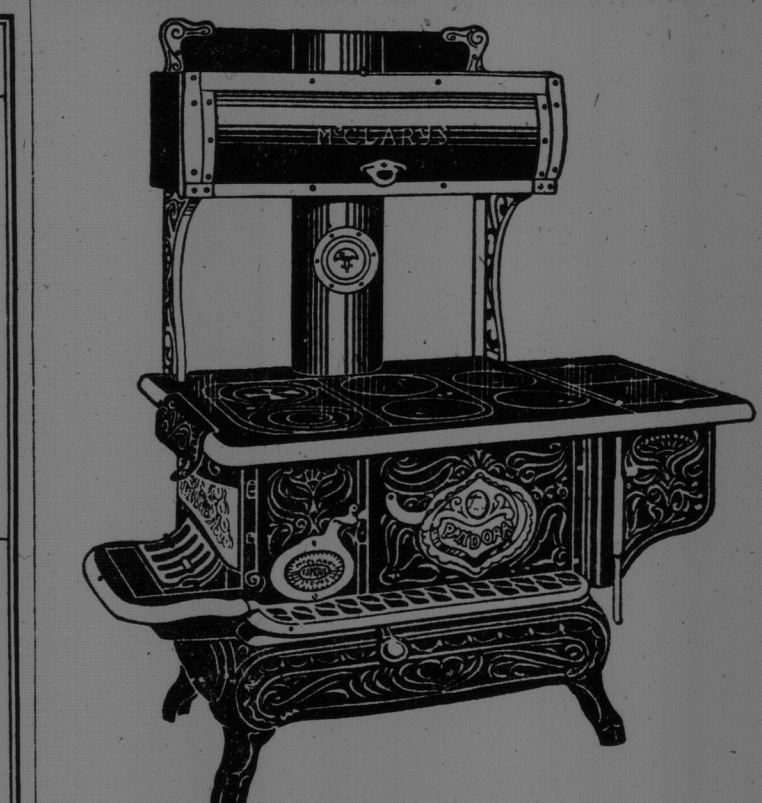
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