

# New Discovery at McGill Acclaimed as Great Boon To Suffering Humanity

*Both Men and Women Will Greatly Benefit by New  
Gland Treatment Is Found by Dr. Collip — Similar  
to Voronoff's Experiments*

A DISCOVERY which, if first promise is realized in its ultimate development, may carry to a much more advanced stage, and in decidedly more practical form, the work that has been done in recent years by Professor Voronoff and others of his school of thought, has crowned the efforts of Dr. J. B. Collip, chairman of the department of biochemistry at McGill University and one of the co-discoverers of insulin, according to an announcement made this morning at the university.

Dr. Collip's discovery, while dealing essentially with a similar phase of human life to that which produced Dr. Voronoff's experiments, differs from the latter in several ways. It is biochemical, whereas Dr. Voronoff's researches were almost wholly surgical. Dr. Collip's treatment, while of great value to both sexes, is primarily based on treatment of women, and is destined to smooth over and facilitate every stage of development and continuation of their functions.

## STIMULATE FUNCTIONS

From the moment that the child begins to turn into woman, to the moment when woman finds herself developing into matron, the appropriate functions can be stimulated, when they are sluggish, assisted when they need help, and their course in general rendered smooth and agreeable to the patient, eliminating to a very great extent the suffering and discomfort which so often characterises the various stages of life.

The discovery would appear to be based on the fact that every glandular secretion owes its peculiar effect to an active principle, which science designates as a hormone. When the hormone can be isolated from everything surrounding it which would make it difficult or dangerous to try to administer it to a patient, it can be then given to human beings, to make up for lack of that particular secretion, or penury thereof, in the body. The lack of a particular secretion is made up for, in diabetes, by injections of insulin.

First the discovery of a particular hormone, then the discovery of a secretion which will stimulate the production of this hormone, has resulted in the announcement of this new treatment, whereby organs that are sluggish or slow of development may be stimulated and assisted, and the sufferings that often accompany nature's struggle for maturity may be eliminated or mitigated to a great extent.

## TAKEN INWARDLY.

The substance, developed by Dr. Collip, is not attacked by the juices of the stomach as is insulin which has to be given hypodermically. This feature, Dr. Collip points out, enables the crystalline pure extract to be given through the mouth, or by injection, at will.

A quantity of the substance has already been manufactured and is now in the laboratories at McGill. If the method of manufacture proves satisfactory additional quantities of the material will be sent out to selected university laboratories and clinics for further testing.

When asked as to the use of the substance, an authority in the medical faculty at McGill stated that the ordinary practitioner will be able to prescribe it for patients in his district. It is not expected that an individual will be well-advised to take the material without the prescription and direction of a physician.

## DISCOVERED ACCIDENTALLY

The fact that the extract can be given through the mouth was discovered accidentally. Rats were used during the experiments and it was found that one of the rodents, which had in some manner obtained access to a small quantity, had eaten some of the extract.

The rat under observation showed the same effects as those treated hypodermically and further experimentation disclosed the fact that the extract was not destroyed by gastric juices.

Possibilities of a wide application of the substance are now being investigated. The thyroid gland belongs to the group affected by the hormone isolated by Dr. Collip and the extract has been found to exercise a wonderfully beneficial influence upon certain forms of goitre.

The beneficial effects of the extract are being investigated in the laboratories at McGill where research workers are highly optimistic over the results thus far obtained. Manufacture of the extract will be done at a minimum cost and the material will be available for distribution as soon as it has been fully approved by the medical profession, medical authorities at the university declared.

"It is too early to make a definite pronouncement upon the value of this treatment," Dr. Collip and his colleague Dr. A. D. Campbell, state in a preliminary report on the subject in the Medical Journal, "for numerous clinical factors have yet to be considered, as well as the question of dosage and duration of administration. It may be said, however, that definite results of a most encouraging character have been obtained in five cases of oligomenorrhoea, in two cases manifesting

## Important Find



DR. JAMES B. COLLIP,  
whose contribution in connection with  
gland secretion is being widely ac-  
claimed.

## SMELTER'S EFFECT ON CROPS FEARED

### Municipalities Gather Date on Reported Project at Ile Perrot

Active opposition to the proposal to establish a smelter for the refining of metallic ores on Ile Perrot may crystallize into joint action within a few days by a number of municipalities between Ste. Anne de Bellevue and Montreal West. At the present time a number of municipalities are said to be investigating the probable effect of fumes from the proposed smelter and, if it found that danger is likely to result, some kind of action will probably be taken.

As regards the effects of sulphur and other fumes from smelting plants, it is pointed out by a prominent engineer that in the case of a smelting plant at Sudbury, Ontario, a considerable territory surrounding the actual plant is rendered totally barren of vegetation. Also, it is pointed out that fumes from the smelter at Trail, B.C., have been the cause of governmental protest from the State of Washington to the Canadian Government. In the latter case it is claimed that farm crops in the state have been materially damaged by the fumes from the Trail smelter. Decision in the case is pending from an international joint commission.

Without going closely into the Ile Perrot project, the engineer is of opinion that the effects of fumes from the smelter might conceivably be felt as far east as Lachine, on the Island of Montreal. Expert opinion on the subject will be collected by a number of municipalities, within the next few days, and a decision will then be reached as to future steps which may be taken.

## SERVANT OF CROPS WOULD EVANISH

WINNIPEG, — (C.P.) — Fred Anderson, leader of the Canadian Air Force, operating an airplane without license but Anderson's defence that he do not come into contact while in the air, owned by Anderson, arrested, by attempt to

FRED ANDERSON  
WAS  
Fred  
United  
national  
mer  
Idaho

I