we realize by what means medicine is now able to protect the life and health of the individual, and how it can save a whole continent from the ravages of epidemics when, in fine, our hearts may, with just pride, exult at this noble conviction—that no other science is as generous and as altruistic as that of medicine. It is not the solemnity of this moment, it is not the éclat of this meeting, that force me to make the assertion that each of our confreres and collaborators, the youngest as well as the most modest, even he, whose name is yet unknown, and who seeks in the seclusion of a laboratory the thread of a truth, the solution of a problem, the answer to a question that he has asked himself each, has reason and right to exclaim "It is an honor, a privilege, and a joy to be a physician!"

THE RELATIONSHIP BETWEEN THE DUCTLESS GLANDS AND CARBOHYDRATE METABOLISM.*

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In accepting the kind invitation of the chairman of the Medical Section to address this association, it seemed that it might be profitable to review a field which has been made fertile by the researches of many workers in an effort to throw light on a problem which, as yet, is only partially solved. It occurred to the writer that a review on the subject of carbohydrate metabolism, with especial reference to its bearing on the etiology of diabetes mellitus, would be of interest not only to the physician, surgeon, and obstetrician, but also to the physiologist and pathologist. As the subject is such an enormous one, I have decided to confine myself to a consideration of the influence of the ductless glands on the warehousing of the ingested carbohydrates. Since the scope of such a paper must necessarily be limied, a review of the investigations carried out along these lines must consequently be brief and rather fragmentary.

The glands that I have considered are the pancreas, adrenals, thyroid and pituitary. At this point an explanation is necessary. The pancreas in the ordinary sense is not a ductless gland, but, as we shall see later, it contains innumerable small groups of cells, which are really ductless glands, whose function is entirely different from the ordinary acini of the pancreas, and whose secretion passes directly into the surrounding vessels. Further, it remains to be shown whether the pituitary is in a true sense a ductless gland, for, as we shall subsequently see, Cushing has almost conclusively shown that the pituitary secretion is poured directly into the cerebro-spinal fluid rather than into the blood stream.

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