

Pontick's remarkable case which makes it appear possible that the hypophysis and the thyroid may be compensatory glands will doubtless stimulate to further study.

With the advent of a successful thyroid therapy the notoriety hunters soon introduced organic extracts of the most various sorts. Cardin, cerebrin, hepatin were launched and vaunted. Examination of the manufacture of a certain prostate extract showed that it was being prepared from female animals! Such empirical attempts were worse than useless. They represent a return to the primitive.

With certain of the organs we were, however, provided with a rational basis for experimentation. Mering and Minkowski proved the disastrous effects upon the animal of extirpation of the pancreas. The diabetes which followed extirpation could be prevented by transplantation of pieces of pancreas. Yet for reasons not satisfactorily understood pancreas therapy has not been made practically useful.

Again, the effects of removal of the adrenals have been carefully studied. Addison's disease is believed to be largely the results of loss of adrenal substance. Unfortunately, the administration of adrenal extract, while it may alleviate some of the symptoms of Addison's disease, has no effect on the others. The attention paid to the adrenal of late by physiological chemists has, however, been most fruitful. The studies concerning the blood pressure raising constituents are extremely valuable. The active substance has been isolated and its chemical nature studied. The work of Abel and others upon epinephrin is furnishing most interesting data for future use. Rhinologists are using adrenal extract as a vaso-constrictor in the nose. Fresh from the German press comes a careful paper by Stoelzner (in Heubner's clinic) detailing a large series of cases of rickets, markedly benefited by adrenal extract. He finds that the cranio-tabes, the sweats, the delayed coming of the teeth, the irritability of the vaso-motor system, the general restlessness and excitability, the curious smell of the urine, are all very markedly improved by the treatment. The softening of the thorax is frequently benefited. The spasm of the glottis and other symptoms of tetany, however, generally appear to remain uninfluenced by the adrenal extract. The improvement can frequently be made out during the first week of treatment. An amelioration of the symptoms goes on rapidly for a few weeks, later on more slowly.

The spleen and bone marrow extracts which have been introduced increase the white and red corpuscles of the blood, possibly owing to the nuclein which they contain. That hypophysis extract is of no value in acromegaly is not surprising if acromegaly is as some think rather an instance of