typical symptoms of iodism prominent. The dogs were killed by bleeding from the carotids under ether anesthesia, the organs removed in the usual manner, hashed, divided into convenient portions, mixed with seven parts of saline and allowed to undergo autolysis at 37°C. in the presence of toluol. Kjeldahl determinations were made on the half saturated zinc sulphate filtrate and on the acidified saturated zinc sulphate filtrate.

In all cases the rate of autolysis was found to be considerably faster than that of organs taken from normal dogs. The *increased* rate of autolysis was noticeable particularly in the liver and kidneys, and especially during the first twenty four hours.

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Relation of the thyroids to autolysis.

By **L. B. STOOKEY** and **VERA GARDNER.**

[*From the Physiological Laboratory, Medical School, University of Southern California.*]

Dogs were thyroidectomized. Typical symptoms of thyroid removal, appearing at variable intervals after the operation, were prominent in all the animals. From five to ten days after thyroidectomy, the dogs were killed by bleeding from the carotids under ether anesthesia, the organs removed, hashed, divided into convenient quantities, mixed with seven parts of saline and allowed to undergo autolysis at 37°C. in the presence of toluol. Kjeldahl determinations were made on the half saturated zinc sulphate filtrate and on the acidified saturated zinc sulphate filtrate.

In all cases the rate of autolysis of the organs from thyroidectomized dogs was slower than that of the organs from control animals. The *decreased* rate of autolysis was noticeable particularly in the liver and kidneys, and especially during the first twenty four hours.