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Effect of Swingle's Extract upon Lactation in the Adrenalectomized White Rat.

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From the Department of Pathology, University of California.

Six lactating animals of 200 gm. average weight were included in this group. Three females one day post partum were etherized and kept under normal conditions as controls. One female 4 days, and 2 females 7 days post partum were adrenalectomized. In these mothers the milk supply had developed and the young were thriving. Beginning the day of operation, the 3 animals operated upon received one cc. of Swingle's cortical extract subcutaneously, each cc. being equivalent to 40 gm. of beef cortex. In the control group the milk supply developed normally and the nourishment of the young was without variation from normal limits. In each of the other 3 there was a noticeable decrease in the supply of milk the second day after operation and lactation ceased on the third. The 4-day-old young died on the fourth day after the operation on the mother, and the young 7 days old were moribund on the fourth day, when they were transferred to other mothers for nourishment. The action of this group parallels that of the animals in Experiment II, where the milk supply failed the second to the fourth day with death of the young from the third to the fifth days post partum.

Conclusion. The substance necessary to maintain lactation in the white rat is absent in cortical extract made after the method of Swingle.

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Effects of Adrenal Cortical Extracts upon the Sex Organs of Animals.

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I. *Effect of Swingle extract on maturity in rats.* In view of the known effect of certain adrenal tumors, and possibly hyperplasias, in producing sexual precocity in children, and because of the general impression that mature rats were less susceptible to sarcoma than