

ard insulin. No conclusive data have as yet been obtained regarding the behaviour of the muscle of normal subjects during insulin action. In the three cases examined the muscle took up more sugar only during the early period of the insulin action.

58 (2290)

The effect of x-rays on the skin of vitally stained white mice.

By GERTY T. CORI (by invitation).

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A unit of x-ray energy for the mouse has been established which could be compared with the human erythema dose. The amount of x-ray which caused total spontaneous epilation was called the epilation dose. It was found to be five to six times more than the human erythema dose. The effect of x-rays on the skin of mice stained with Trypan blue has been studied. It was found that the reaction of the radiated skin in stained and control mice is not markedly different, the sensitiveness of the stained mouse being slightly above that of the control mouse. There was, however, a marked difference between the normal and stained mouse in the time at which epilation began after the radiation. Different radiation times, 80, 70, 65, 60 and 50 minutes were applied. The epilation always occurred earlier in the stained than in the control mice.

59 (2291)

Variations in acetone excretion at different times during the day.

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Determinations of the acetone bodies in urine were made every two hours during the day and on a single specimen collected at night in five experiments upon four subjects. In one experiment the diet was normal, in one it contained 1 and in the others