Endogenous effects of hormones on memory on the basis of lot of studies are various. These could be memory enhancing, amnestic, counter acting, state dependent, time dependent effects on memory and so on. Cholinergic substances endogenously and exogenously administered, both increase the blood glucose level which further affect memory. Glucose endogenously or exogenously also reach blood and show the same effect on memory.

This investigation was designed to study the effect of high dose of glucose on memory in rats. The immediately after training, high dose of glucose administration induced amnesia. But the delayed administration of high dose of glucose by 10 minutes or more produced no memory impairment.

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