

"With the knowledge gained from many different lines of investigation during the last seven years, facts have been uncovered and so utilized that I am now able to announce the persistence of portions of the male sex gland of mammals in a perfectly normal condition.

"The male gland transplantation in mammals has been studied by many European workers and persistence of some structures of it have been obtained for the past twenty-five years. The tissue persisting, however, has never been found in a normal condition. Structurally it has been altered very considerably and has never been found to carry on its normal function of producing mature sex cells. It has been considered impossible, up to the present time, to so far carry over from one animal to another the male sex gland of the mammal and to obtain its incorporation so that it could carry on its normal function of producing germ cells."

OLIVE OIL MADE CURE FOR RICKETS BY ULTRA-VIOLET RAYS

That such fats as olive oil and lard may be activated by exposure to ultra-violet rays and used as a substitute for cod liver oil in the treatment of rickets is shown by experiments about to be reported by the Department of Agricultural Chemistry of the University of Wisconsin in a forthcoming issue of the Journal of Biological Chemistry.

Until recent years, rickets has been a scourge among babies. Only within the past few years has science demonstrated that rickets is due to a deficiency of calcium in the bones and that the oil from the liver of the codfish will prevent and even cure the disease.

In the series of experiments now published olive oil and lard were each exposed to the action of the ultra-violet rays from a powerful mercury vapor quartz lamp for periods of time ranging from 30 minutes to seventeen hours.

After exposure to the rays these fats were fed to a group of experimental rats in which rickets had been produced and the activated olive oil and lard were found to have the same beneficial results that followed the administration of cod liver oil. Not only did the weight of the rats increase, but an analysis of the bones showed an increase in the calcium content.

Some of the activated olive oil that had been stored in a stoppered bottle showed no change in potency after a period of ten months.

It was found also that the fats might be activated by the rays from the open carbon arc, the iron arc, and by sunlight, but that exposure for prolonged periods such as seventeen hours destroyed the potency of the fats, this effect being produced even on the cod liver oil.

Eggs kept in cold storage in a frozen condition for nearly nine years still retain their power to promote growth in rats.

More than 80,000,000 swine were slaughtered in the United States last year.
