

course, produced in considerable quantity in the affected gonad. It is to the coincident presence of this hormone that we would attribute the normality of the birth mechanism which we have encountered in high dosage with the implant method (8 rat glands per day). It does, in fact, occasionally bring about premature birth through a folliculin effect. On the other hand, the administration only once daily of a highly concentrated fraction out of human placenta or urine of pregnant women has given the characteristic birth retarding effect.

4414

Stimulation of Placentoma Reaction in Virginal Endometrium by Treatment with Anterior Hypophyseal Hormone.

HERBERT M. EVANS AND MIRIAM E. SIMPSON.

From the Department of Anatomy, University of California.

It has been shown that the anterior hypophyseal growth hormone markedly aids the placentoma reaction of the endometrium of adult virginal rats, tumors of this sort being provoked about silk threads when simultaneous dosage with the growth hormone is carried out.* The anterior hypophyseal hormone which promotes precocious development of the immature ovary, has a similar effect if it is not administered so as to stimulate greatly the follicular apparatus and lead to the formation of much folliculin. It is for this reason, we believe, that the administration of forms of the hormone (extracts of the urine of pregnant women and of human placenta) are more efficacious in stimulating placentomata than is the implant method.

4415

Hyperplasia of Mammary Apparatus in Precocious Maturity Induced by Anterior Hypophyseal Hormone.

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Within 6 days, the mammary tree of 24 day old female rats is clearly increased in complexity by all methods of administration of

* Whatever the substance injected, it is a routine to give 3 days preliminary treatment and 5 days treatment after insertion of the threads, autopsy occurring on the sixth day after the threads were inserted.