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JOURNAL ARTICLE

Suppression of the proliferative response of the seminal vesicles to testosterone by inhibitors of prostaglandin synthesis. Testosterone, indomethacin, and proliferation in seminal vesicles

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Effects of indomethacin (1.25 mg/kg) and aspirin (20 mg/kg) on testosterone-induced (0.25 mg/rat), and of indomethacin on dihydrotestosterone-induced (0.25 mg/rat) mitotic activity of the seminal vesicles and the ventral prostate in rats were examined. The results demonstrate that the seminal vesicles' proliferative reaction induced by testosterone was suppressed by treatment with indomethacin and aspirin; whereas, in the ventral prostate, the mitogenic effect of testosterone was not blocked by either of these inhibitors of prostaglandin synthesis. Cellular proliferation induced by dihydrotestosterone was not inhibited by indomethacin in either the seminal vesicles or the ventral prostate. These results suggest the existence of different mechanisms of proliferative reactions of the seminal vesicles and the ventral prostate to testosterone. The results further suggest an involvement of prostaglandins in the mitogenic effect of testosterone on the seminal vesicles.

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