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JOURNAL ARTICLE

Influence of sex hormones on prostate volume in men on hemodialysis

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The relationship between sex hormones and prostate volume in 90 men on hemodialysis and 91 healthy men was investigated. In men on hemodialysis, serum levels of total and free testosterone were significantly reduced compared with the controls ($P < .001$), whereas the serum estradiol level was significantly elevated in men on hemodialysis ($P < .001$). However, prostate volumes were not different between the 2 groups. Serum estradiol level correlated with the prostate volume in controls ($P < .001$), whereas total and free testosterone levels did not correlate with the prostate volume. In men on hemodialysis, serum levels of total and free testosterone and estradiol did not correlate with the prostate volume. The present study suggests that sex hormones do not play important roles in the prostate growth in men on hemodialysis.

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