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Pattern of Transforming Growth Factor-β1 (TGF-β1) Level in BPH and Non-BPH Patients

Abstract

The etiology and pathogenesis of Benign Prostatic Hyperplasia (BPH) remains unclearly defined, and one of this unclarity is the reduction of Transforming Growth Factor-β1 (TGF-β1) level. The aim of this study was to disclose the role of TGF-β1 in the pathogenesis of BPH. The study on plasma TGF-β1 level pattern was carried out to BPH patients (group 1), non-BPH patients of more than 50 years of age (group 2), and non-BPH patients of less than 50 years of age (group 3). The samples in these groups comprised 18, 17, and 13 individuals respectively, and the TGF-β1 level in respective groups were ranging between 3.4 to 31.52 (14.72 + 8.07) ng/ml, 1 to 65.3 (25.42 +17.97) ng/ml and 4.7 to 69.6 (23.76 + 19.56) ng/ml. The mean of plasma TGF-β1 level in BPH patients was lower that that of non-BPH group irrespective of their age. There was difference in plasma TGF-β1 between that in group 1 and 2 after being tested with independent sample t 2 test (p = 0.035), probably due to the role of plasma TGF-β1 in BPH pathogenesis directly and indirectly. It is suggested to undertake further studies using tissue sample from BPH patient and normal prostate tissue to prove that TGF-β1 has an important role in BPH pathogenesis.

Keyword : Transforming, Growth, Factor-β1, (TGF-β1), Benign, Prostatic, Hyperplasia, (BPH),

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