Perbedaan ekspresi 5?-reduktase tipe 1 pada adenokarsinoma prostat tipe asinar dan hiperplasia prostat = Differential expression of 5 reductase type 1 in adenocarcinoma acinar of the prostat and benign prostatic hyperplasia

Gultom, Fajar Lamhot, author

Abstrak

ABSTRAK
Latar belakang: Hiperplasia prostat dan adenokarsinoma prostat keduanya sangat dipengaruhi oleh hormon androgen terutama dihidrotestosteron (DHT) berasal dari konversi testosteron (T) dikatalisator oleh enzim 5α-reduktase (5αR). Terapi hormonal merupakan salah satu modalitas terapi kedua penyakit ini dengan menghambat enzim 5αR tipe1dan tipe 2. Tujuan penelitian ini untuk mengetahui perbedaan ekspresi 5αR1 antara adenokarsinoma prostat tipe asinar dan hiperplasia prostat, serta melihat ekspresi 5αR1 berdasarkan skor Gleason.
Metode: Penelitian menggunakan metode potong lintang. Sampel terdiri atas 20 kasus adenokarsinoma prostat tipe asinar dan 20 kasus hiperplasia prostat. Dilakukan pulasan 5αR1 dan penilaian pulasan dengan menggunakan histoscore.
Hasil: Mean area sel tumor sebanyak 11,63% dan sel epitel di hiperplasia prostat 26,54%. Terdapat perbedaan kadar PSA antara adenokarsinoma prostat dengan hiperplasia prostat (p=0,00). Ekspresi 5αR1 di sitoplasma dan inti didapatkan perbedaan antara adenokarsinoma prostat dengan hiperplasia prostat (p=0,00). Ekspresi 5αR1 lemah terbanyak didapatkan pada adenokarsinoma prostat.
Kesimpulan: Ekspresi dan total area pulasan intensitas 5αR1 pada hiperplasia prostat lebih tinggi. Peningkatan skor Gleason cenderung diikuti penurunan ekspresi 5αR1.
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ABSTRACT
Background: Acinar adenocarcinoma and BPH both are strongly influenced by androgen hormone especially dihydrotestosterone (DHT) from convertion of testosterone (T) catalize by 5α-reductase (5αR) enzyme. Hormonal therapy is one of treatment modality for these condition by inhibiting 5αR type 1 and type 2 enzyme. The aim of this study is to know differential expression of 5αR1 between acinar adenocarcinoma and BPH and also expression 5αR1 based on Gleason score.
Method: This was cross-sectional study on 20 cases acinar adenocarcinoma and 20 cases BPH stained with 5αR1 antibody. The appraisal was done with

estimating histoscore.
Result: Mean area of tumor cells is 11,63% and epithelial cells in BPH 26,54%. There was statistically significant levels of PSA between acinar adenocarcinoma and BPH (p=0,00). Cytoplasmic and nuclear expression of 5αR1 were statistically significant different between acinar adenocarcinoma and BPH (p=0,00). Low intensity expression of 5αR1 in acinar adenocarcinoma was the most commonly found.
Conclusion: Total area of expression 5αR1 in BPH are higher. hiperplasia prostat lebih tinggi. The higher Gleason score tends followed by declining expression of 5αR1.;