THE ASSOCIATION OF BENIGN PROSTATIC HYPERPLASIA (BPH) WITH THE PRESENCE OF BLADDER STONES IN RSUD AJIBARANG

Loviani, Evina[1], Rismawanti, Ghufrani S[2], Alfarissi, Muhammad A[3], Fachrurrefi, Mochammad G. A[4], Rustiasari, Ukhti J[5]

[1,2,3,4]Students of the Faculty of Medicines of Indonesian Islamic University,

[5]Pathology Anatomy of the Faculty of Medicine of Indonesian Islamic University

Abstract

Statement of the Problem: Benign Prostatic Hyperplasia (BPH) can cause urinary retention, and if this condition keep continue, can lead to form a bladder stone. The aim of ultrasonography (USG) examination was to assess a prostate volume and the presence of bladder stones in patients with BPH. The purpose of this study is to examine the relationship between benign prostatic hyperplasia (BPH) and the presence of bladder stones in patients with BPH. Methodology & Theoretical Orientation: We retrospectively reviewed the data of patients with BPH between January -December 2018. Data analysis was performed to assess the relationship of age and prostate volume in BPH and the relationships between age, prostate volume and the presence of bladder stones in patients with BPH. Finding: Of 139 patients with BPH, the mean age and prostate volume were 70+10.2 years and 40.60 + 16.8 mL. Respectively we found 17 (12.2%) patients with BPH had bladder stones. There were a significant difference in prostate volume between age <50 years vs 80 years (p=0.035) and age 51-60 years vs >80 years (p = 0.004). A significant relationship was also found between age and the presence of bladder stones in BPH patients (p=0.010). There was no significant relationship between prostate volume and the presence of bladder stones in BPH patients (p = 0.493). Conclusion & Significance: There are significant relationships between age and the presence of bladder stones in BPH patients and between prostate volume in the age group <50 years vs 80 years and age 51-60 years vs >80 years. There is no significant relationship between prostate volume and the presence of bladder stones in BPH patients.

Image

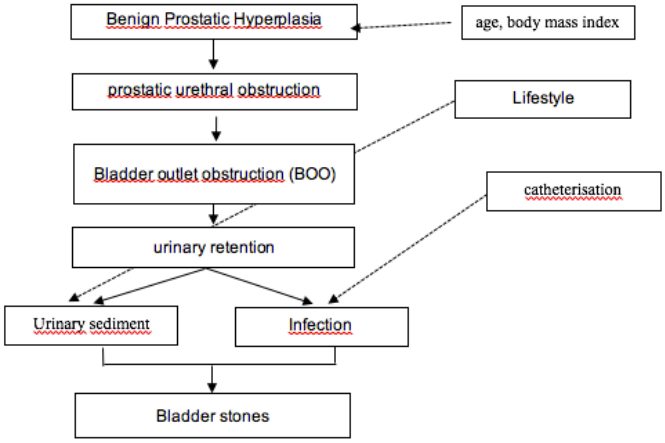
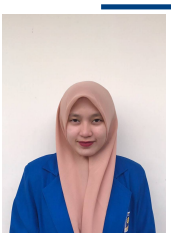


Figure 1 : Effect of BPH on the presence of bladder stones

Recent Publications

1. Childs, M.A., Mynderse, L.A., Rangel, L.J., Wilson, T.M., Lingeman, J.E. and Krambeck, A.E., 2013, Pathogenesis of bladder calculi in the presence of urinary stasis. The Journal of urology, 189(4), pp.1347-1351.
2. Crawford ED, Wilson SS, McConnell JD, Slawin KM, Lieber MC, Smith JA, et al. Baseline factors as predictors of clinical progression of benign prostatic hyperplasia in men treated with placebo. J Urol 175 (4), pp.1422-7.
3. Huang, W. et al., 2017. Risk factors for bladder calculi in patients with benign prostatic hyperplasia. Medicine, 96(32).
4. Jung, J.H. et al., 2018, The association of benign prostatic hyperplasia with lower urinary tract stones in adult men: A retrospective multicenter study. Asian journal of urology, 5(2), pp.118-121
5. Kim, J.W. et al., 2014, Intravesical prostatic protrusion is a risk factor for bladder stone in patients with benign prostatic hyperplasia. Urology, 84(5), pp.1026-1029



BIOGRAPHY

My name is Evina Loviani. My nickname is Vina. Im a student half 7 of the faculty of medicine of Indonesian Islamic University. I was born in Indonesia (Pekalongan), 13rd of July in 1997. I was the second child of 4rd sisters, children of drs. Toni Kurtis, M.Si and Sri Ningsih. I just managed to finish my research to know the association of prostatic volume with the presence of bladder stones in patient with benign prostatic hyperplasia

email : evinaloviani595@gmail.com