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USEFULNESS OF FLEXIBLE CYSTOSCOPIC CLASSIFICATION OF THE PROSTATE IN BENIGN PROSTATE HYPERPLASIA.

Hypothesis / aims of study
To classify and evaluate the prostate by flexible cystoscopy in benign prostate hyperplasia (BPH) patients.

Study design, materials and methods
From January 2008 to May 2015, EMR data and images were collected retrospectively from the patients who underwent flexible cystoscopy for BPH. Flexible cystoscopic prostate classification is combination of six urethral view (no enlargement: N, median lobe enlargement: M, unilateral lobe enlargement: U, bilateral lobe enlargement: B, M and U: MU, M and B: MB) and two bladder neck view (no protrusion: NP, protrusion: P). Age, body mass index (BMI), prostate volume (PV), international prostate symptom score (IPSS), voided volume (VV), maximal flow rate (MFR), residual urine (RU) were compared among classified groups. ANOVA and Pearson correlation coefficient (r) were used.

Results
Total 374 patients were enrolled in this study. The mean age of total patients were 71.04 (years). The prostate were classified into 10 groups (N-NP, M-NP, M-P, U-NP, U-P, B-NP, B-P, MU-NP, MU-P, MB-P). The age were not significantly different among classified group (p = 0.073). However, BMI, PSA, PV, IPSS, MFR, RU were significantly different among them (p < 0.05). In simple correlation analysis, Age, BMI, PV, IPSS and RU had significant linear correlation with classified group (p < 0.05), and had positive linear correlation (r = 0.180, 0.311, 0.534, 0.692, 0.244, respectively). But, VV and MFR had significant linear correlation with classified group (p < 0.05), and had negative linear correlation (r = -0.316, -0.553).

Interpretation of results
Our flexible cystoscopic classification is correlated with patient symptoms and many BPH parameters.

Concluding message
So, we think this classification could be useful in BPH patients work up.