International Continence Society

August 22-26, 1999

2-26, 1999 29th Annual Meeting
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Denver, Colorado USA

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RATIO IN THE EVALUATION OF BENIGN PROSTATIC	A
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Aims of Study Prostate volume has been known to be poorly correlated with various clinical parameters used to assess the severity of benign prostatic hyperplasia (BPH), including symptom score, peak flow rate (Qmax). However, the ratio of transition zone (TZ) volume might served as a useful proxy for evaluating worsening obstruction. This study was designed if transrectal ultrasonographic measurement of RI (resistive index), PCAR (presumed circle area ratio) are correlated well with volume (total prostate volume, TZV, TZ index) or other clinical (peak flow rate, prostate symptom score) parameters.

<u>Methods</u> A total of 81 men aged 50 to 76 years with moderate symptom of BPH (IPSS \geq 8) underwent measurement of RI. PCAR, total prostate and TZ volume at the time of transrectal ultrasonography. All men were requested to undergo uroflowmetry and completed the IPSS.

Results RI correlated well with TZ index (r=0.335, p<0.01), TZ (r=0.311, p<0.01), IPSS (r=0.307, p<0.05), and age (r=0.300, p<0.05). PCAR also correlated with total prostate volume (r=0.312, p<0.01), IPSS (r=0.302, p<0.05) and TZ volume (r=0.258, p<0.05). There were no significant interrelationships between RI and PCAR.

	PCAR	TV	TZV	TZI	Qmax	IPSS	Age
RI	r = 0.053	r = 0.227	$r = 0.311^{**}$	$r = 0.335^{**}$	$r = -0.266^*$	$r = 0.307^*$	$r = 0.300^*$
PCAR		$r = 0.312^{**}$	$r = 0.258^*$	r = 0.213	r = -0.146	$r = 0.302^*$	r = 0.179
TV			$r = 0.912^{***}$	$r = 0.712^{***}$	$r = -0.252^*$	r = 0.289*	$r = 0.314^{**}$
TZV.				$r = 0.905^{***}$	r = -0.225	$r = 0.271^*$	$r = 0.325^{**}$
TZI						r = 0.132	$r = 0.293^{**}$
Qmax					•	r = 0.295 *	$r = -0.330^{**}$
IPSS							r = 0.120

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Author(s):								
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Conclusins IP	SS was highly related t r =	o RI and PCAR. Hig	gh correlation was not	ed between Rl	and TZ index, followed			
by that between RI and TZ volume. PCAR was only related to total prostate volume. These findings provide further								
evidence that RI is more useful than PCAR as a ultrasonographic measurement in assessing the volume of BPH. Study is								
in progress for determining the value of RI for predicting bladder outlet obstruction								
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