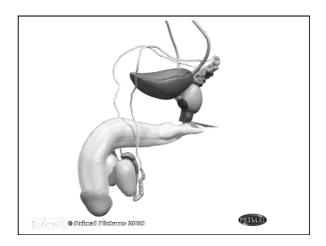
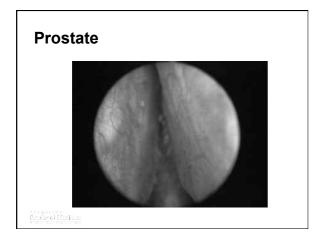
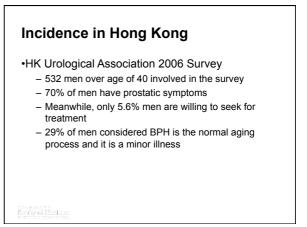
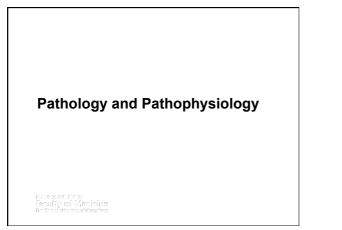
Advances in the Management of Benign Prostate Hyperplasia

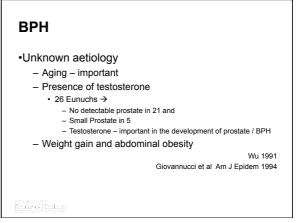
Dr Anthony C.F. Ng Professor Division of Urology, Department of Surgery The Chinese University of Hong Kong

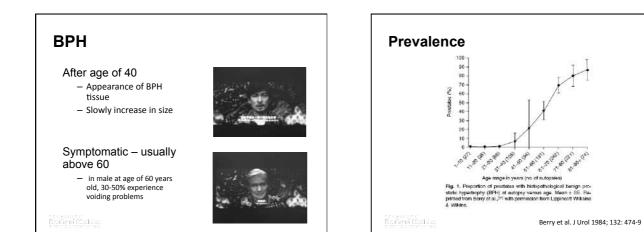


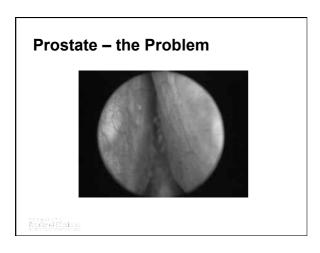


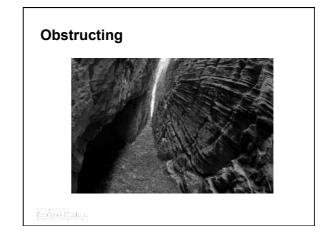




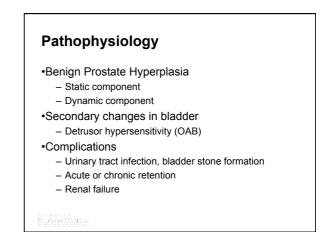




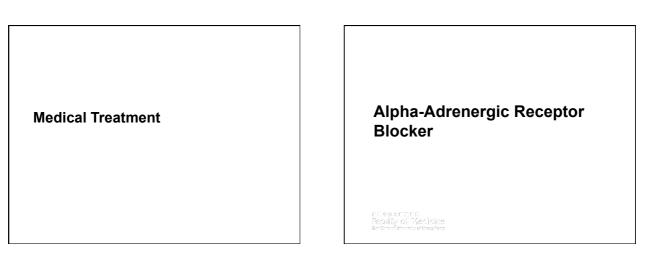




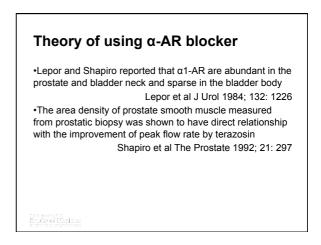


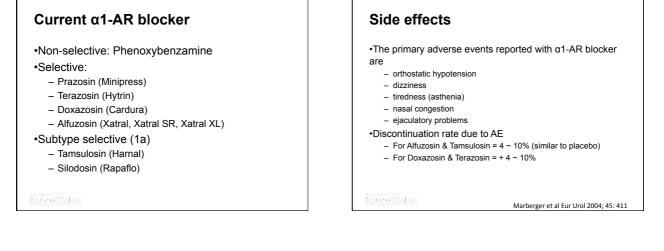


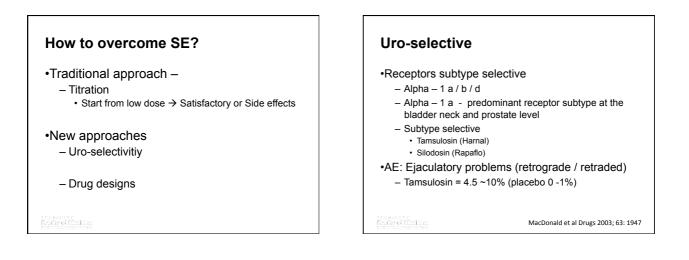


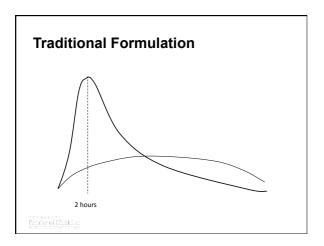


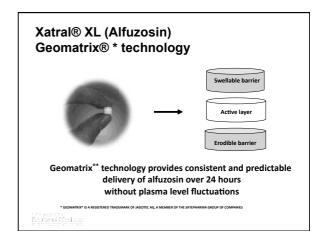


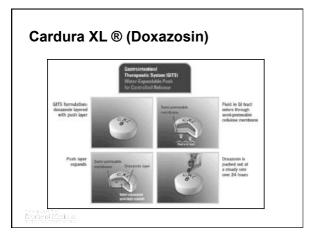


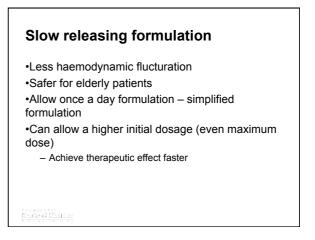


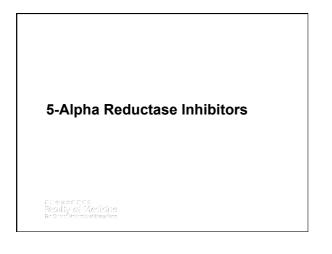


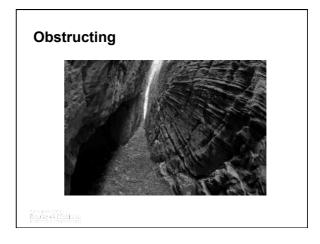












5α-reductase

•Testosterone \rightarrow Dihydrotestosterone (DHT) 5- α -reductase

•DHT is essential for prostate development and growth, the development of the external genitalia and male patterns of facial and body hair growth or male-pattern baldness.

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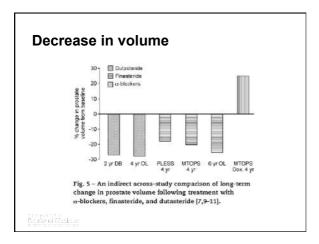
 $\bullet 5\alpha\text{-RI}$ is the sole hormonal therapy, to date, that demonstrates both efficacy and acceptable safety for treatment of BPH

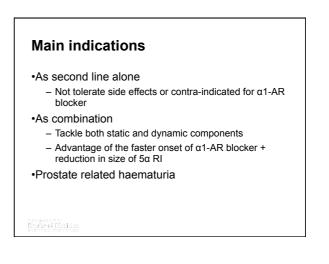
•Decrease the size of prostate

•The onset of maximal clinical effect 3-6 months •Effects especially superior in glands > 40ml

Faculty of Effectivity

Boyle et al Urology 1996; 48: 398-405





α1-AR blocker + 5α Rl

•Tackle both static and dynamic components •Advantage of the faster onset of α 1-AR blocker + reduction in size of 5 α RI

How about my future? Do I eventually need surgery?

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Natural History

•In 5 years time

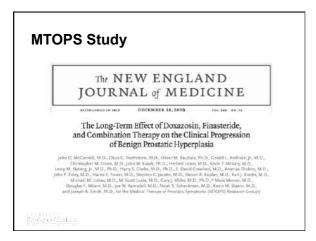
- 107 male patients with lower urinary tract symptom
- 10 required surgery
- 97 not required surgery; for their overall symptoms
 - 16 worsen in symptom
 - 50 static
 - 31 feel better

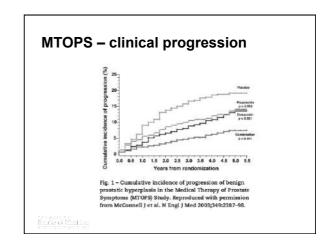
•Around 1/4 worsen or need surgery

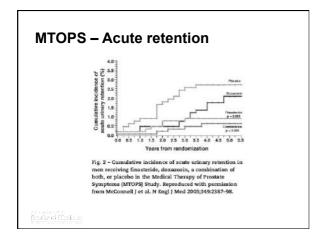
ne oscielar e Regular of Medicine Ball AJ et al Br J Urol 1986

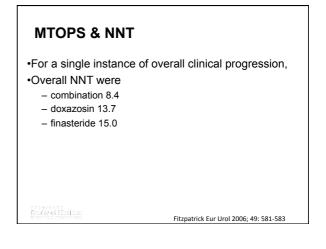
Can we do something to prevent progression?

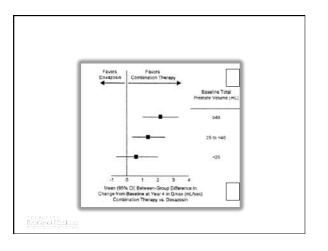
Reality of Medicine -

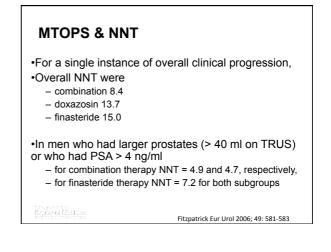


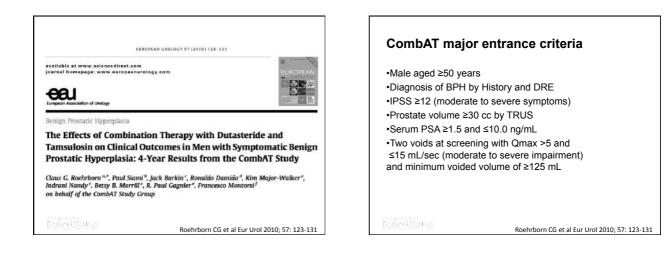


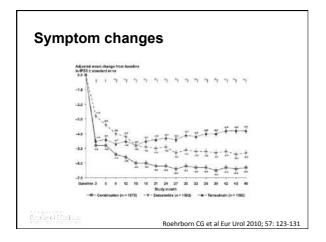


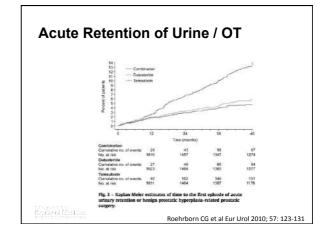


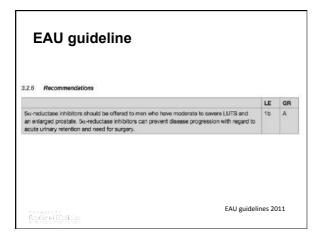




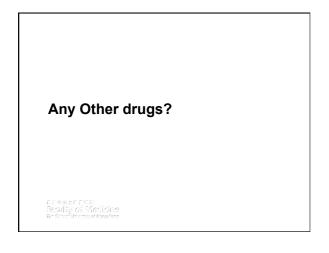








	Dutasteride 0.5 mg daily N=813	Finasteride 5 mg daily N=817
Any adverse event	17%	20%
Sexual adverse event % Gynecomastia	11%	14%
Impotence	7%	8%
Decreased libido	5%	6%
Ejaculation disorders	1%	1%
Gynecomastia	1%	1%



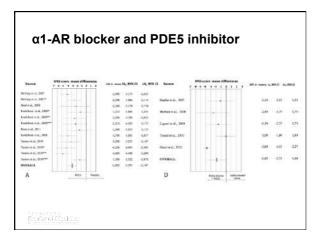
α1-AR blocker and PDE5 inhibitor •Tinel et al found that PDE5 mRNA was expressed in the lower urinary tract tissue of rats and that PDE5 inhibitors reduced the contraction of muscle strips. Tinel et al. BJU Int 2006; 98: 1259-1263

α1-AR blocker and PDE5 inhibitor
Clinical studies suggest that PDE5 inhibitors can improve LUTS
Combined usage of alfuzosin and sidenafil is superior to alfuzosin monotherapy in managing patients with LUTS

McVary et al. J Urol 2007; 177: 1401-1407. Kaplan et al. Eur Urol 2007; 51: 1717-1723

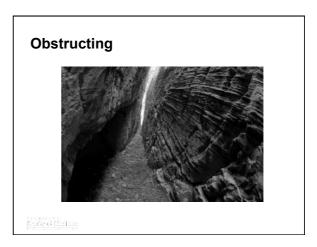
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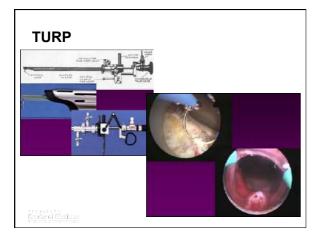


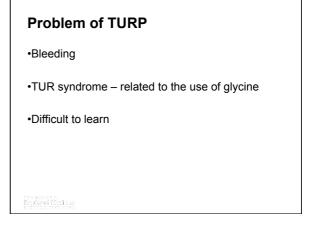




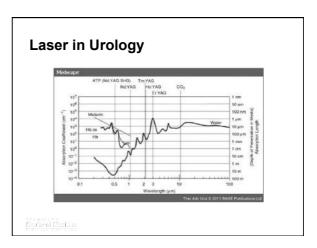


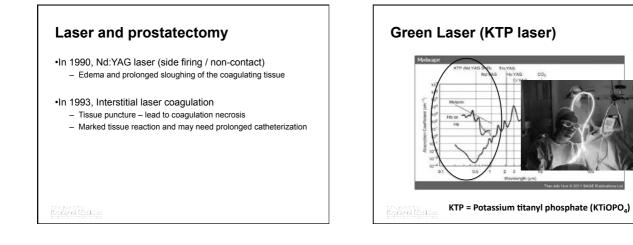






New Energy Mode
•Laser Energy
•Bipolar Energy
n new start n Renner 41 Reed Stare



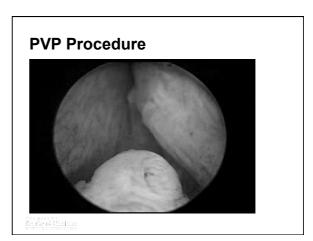


PVP

•Green "light" (532nm) is selectively absorbed within the tissue by haemoglobin ("red") and not by water and has a short penetration depth of 0.8 mm. •Immediate tissue vapourization



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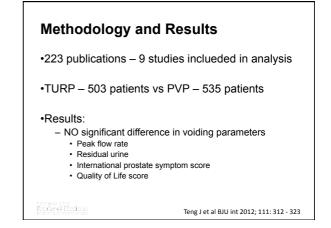


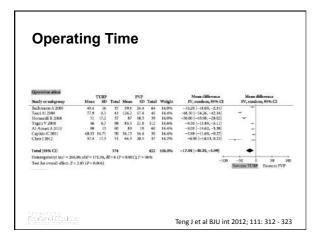
Photoselective vaporization with the green light laser vs transurethral resection of the prostate for treating benign prostate hyperplasia: a systematic review and meta-analysis Jinglei Teng¹¹⁷, Dongxu Zhang¹², Yao Li¹², Lei Yin^{*}, Kai Wang⁺, Xingang Cui^{*} and Danleng Xu^{*}

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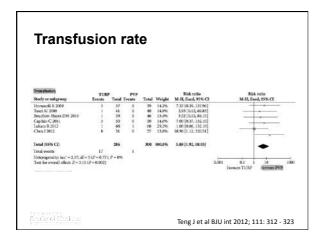
These outhors contributed equally to this article.

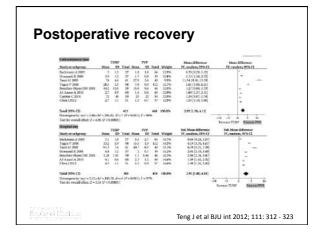
Teng J et al BJU int 2012; 111: 312 - 323

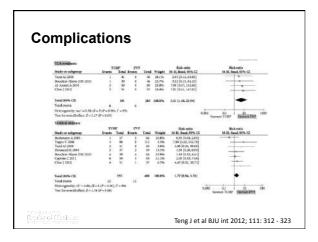


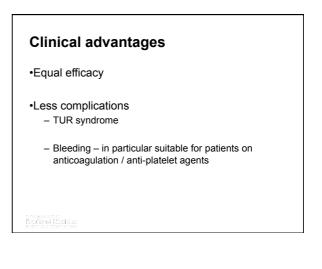


Topology Topology Period Mean additionance Mean additionance	TURP PVP Mean difference Mean differe subgroup Mean SD Total Mean SD Total Weight IV, random, 95% CI IV, random, 95	
cmsA.2005 1.7 1.7.2 3.7 0.7 1.8.4 1.6.9% L.0.9 (2), 5, 1.2.1 + 97.064 0.7 1.0 86 6.6 51 12 96.4% 0.39 (2), 55, 1.55 + er-Bayers DO 2010 1.6 1.6 36 37 1.6 1.8.1% 1.02 (2), 5, 1.53 + er-Bayers DO 2010 2.1 36 6.40 6.7 46 1.8.1% 1.02 (2), 5, 1.53 + et-Bayers DO 2010 2.1 37 1.3 67 1.9.9% 2.29 (1.2), 5.981 - 2012 2.8 2.9 1.0 1.7 1.33 57 16,4% 2.10 (1.36, 2.64) -		
V2606 0.7 1.1.0 98 6.4 6.65 11.2 19.4% 0.39 0.055 5.55 exhportb X000 2.6 1.6 1.6 1.6 1.0 1.0 1.0.4% 1.0.39 0.055 6.55 + exh 2000 2.9 1.5 40 0.7 1.6 1.0 1.0.4% 1.0.49 1.0.51 1.0.2 1.0.51 + + -		
erl A 2010 2.9 2.13 60 0.7 1.38 60 17.0% 2.26 (15.7.2.86)	/ 2008 0.7 1.13 96 0.4 0.63 112 19.4% 0.30 [0.05, 0.55] *	
IC 2001. 2.3 4.36 50 9.45 1.31 50 12.4% 1.65 [9.35,29.1] 2012 2.8 2.39 31 0.7 1.53 57 16.4% 2.39 [3.36,2.84] -∞-		1000
2012 2.8 2.29 31 0.7 1.53 57 16.4% 2.10[1.36,2.04]		
		-
	ter the state of t	
595 CI) 335 589 100.0% 1.35 (0.51, 2.05) -	596 CT) 335 389 100.0% 1.35 [0.61, 2.05] 🔶	•
provity: $tau' = 0.68$; $chi' = 46.05$, $df = 5$ ($P < 0.001$); $P = 8994$	service buil = 0.58 chil = 45.05, df = 5 (P < 0.001); # = 85%	
roverall effect: Z = 3.62 (P = 0.0003)		1 1









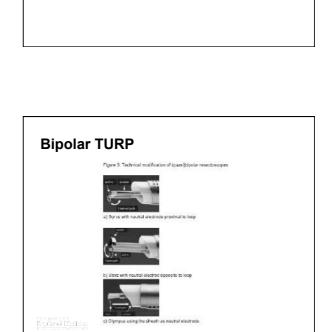
Photoselective vapourization of Prostate (PVP / Green laser)

•Need to have the machine •Need to have fibers

•May not be that convenience



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Can we have something more

straight forward?

Bipolar TURP

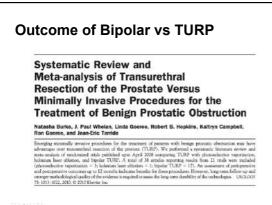
•Can use with some of the usual diathermy machine

•More readily used in operation room

•Advantages:

- Can use normal saline during resection, i.e. avoid the use of glycine no TUR syndrome
- Similar skill as standard monopolar TURP

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N Burke et al Urol 2010; 75: 1015-1022

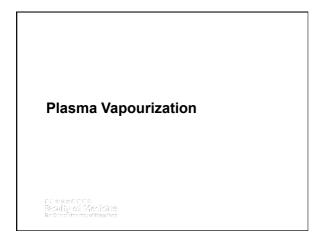
Results

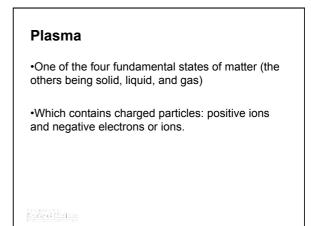
•Operation times, transfusion rates, retention rates after catheter removal and urethral complications did not differ significantly.

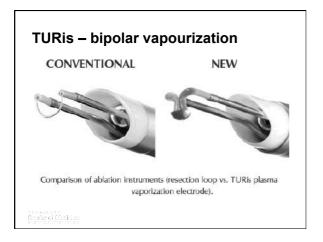
•Irrigation and catheterization duration was significantly longer with monopolar TURP (p < 0.00001).

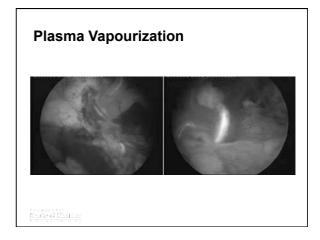
•shorter catheterization period with bipolar TURP (p < 0.001), and a significant reduction of the number of days in hospital (p < 0.01)

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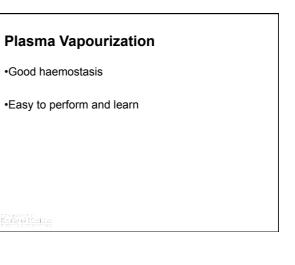












Other development

•Thulium Laser - enucleation / vapourization

Botox injection

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Conclusion

•With increase in life expectancy of male patients in our regions, there will be an continue increase in the aging population

•More and more patients will present with voiding dysfunction secondary to benign prostate enlargement

•The improvement in both medical and surgical technologies have provided many new treatment options for these patients

•We could tailor-made the treatment plan for individual patients in order to provide the best care for them

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