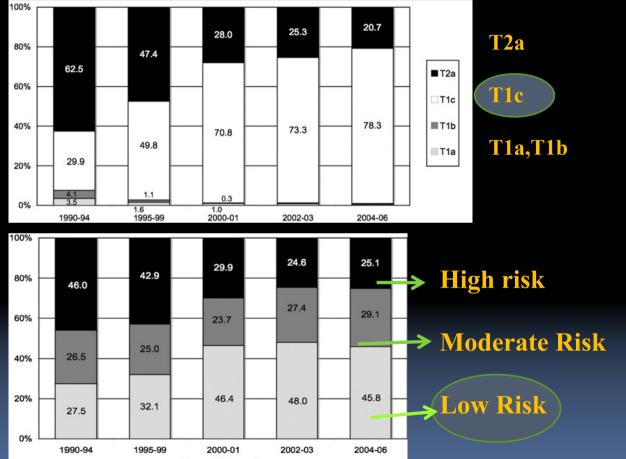


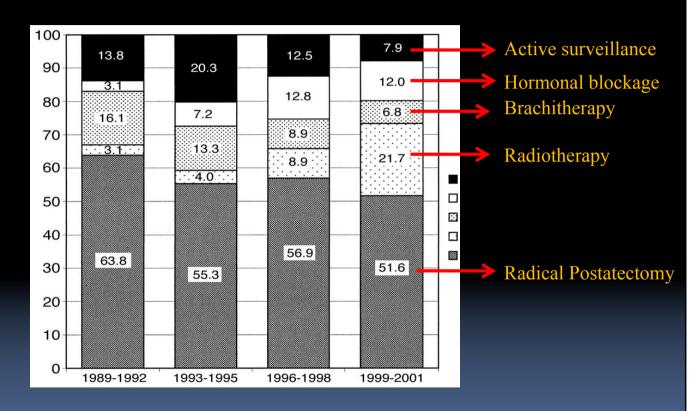
#### Prostate cancer actual scenario......



Contemporary Trends in Low Risk Prostate Cancer: Risk Assessment and Treatment M. R. Cooperberg, J. M. Broering, P. W. Kantoff, P. R. Carroll, J. Urol. 2007;178(3):S14-S19 (Concentration of the process of

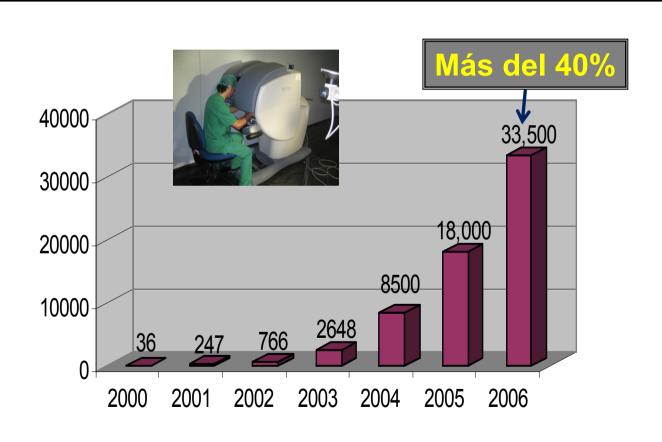


#### Trends in PCA treatment options

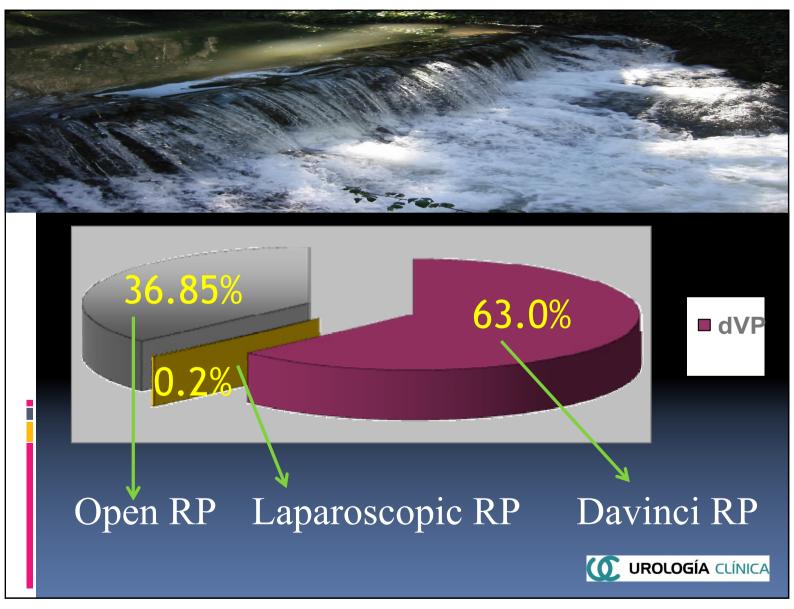


The Changing Face of Low-Risk Prostate Cancer: Trends in Clinical Presentation and Primary Management M. R. Cooperberg, D.P. Lubeck, M.V. Meng, S.S. Mehta, P.R. Carroll J Clin Oncol 2004; 22:2141-2149.

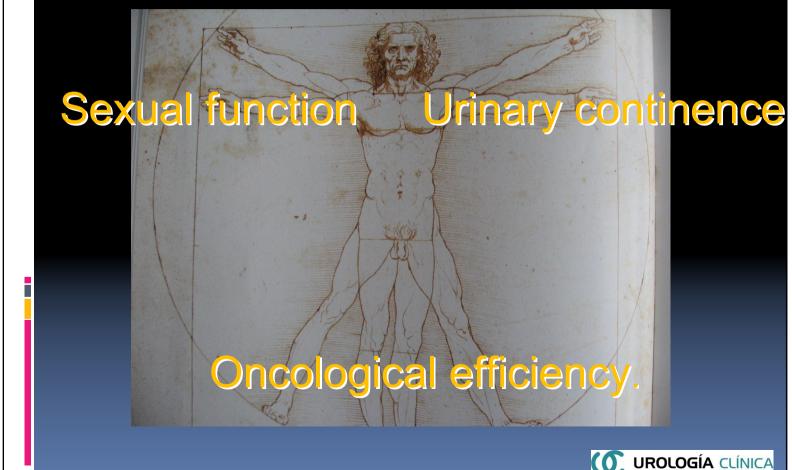
#### Robotic RP evolution in USA







Radical prostatectomy final objetive: oncological control with reduce functional collateral damage.



### Are really important functional outcomes?

- 45 % patients supported that preserve quality of life was the most important objetive in Pca treatment.
- Only 29% choose prolong life rather than preserve quality of life.

CRAWFORD ED: Comparison of perspectives on prostate cancer: Analysis of survey data. Urology 50:366, 1997

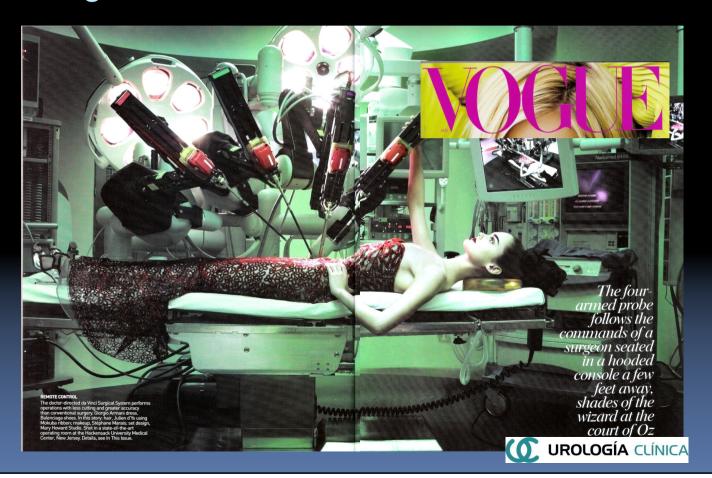
• 68% change 10% of survival in order to mantain sexual function after surgical Pca treatment.

SINGER PA: Sex or survival: Trade-offs between quality and quantity of life. J Clin Oncol 9:328, 1991





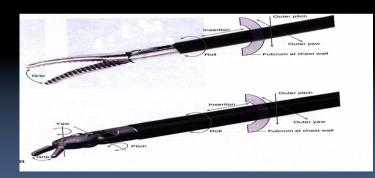
# Could robotic surgery improve functional and oncological outcomes ?



### Human arm: 22 gdl=594.823.321 mov.



DaVinci Robot: 7 gdl = 117.649





Convencional Lap: 4gdl =729 mov.

### Could robotic surgery improve oncological outcomes? Is possible to reduce positive surgical margins?



- Similar or even Better ONCOLOGICAL RESULTS than RRP and LRP.
- Positive margin rates: RRP (12,8%-36%) 21,2%

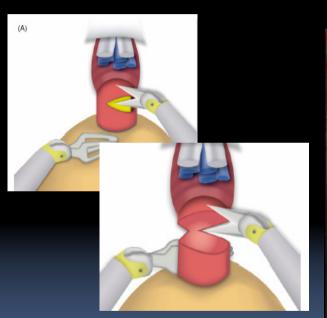
AHLERING T: Multiinstitutional review of pathological margins after RALP. J Urol 2006;175: 217.

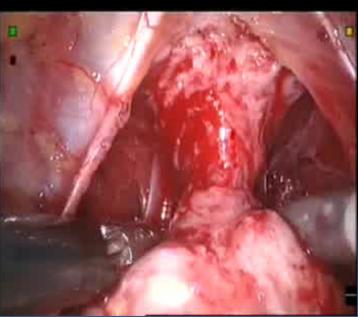
ESEQUEIL jR: Prostatectomía radical robótica: Resultados oncológicos. Arch Esp Urol 2007, 60:429.



UROLOGÍA CLÍNICA

## Excellent 3D view for precise apical dissection and reduce PMR

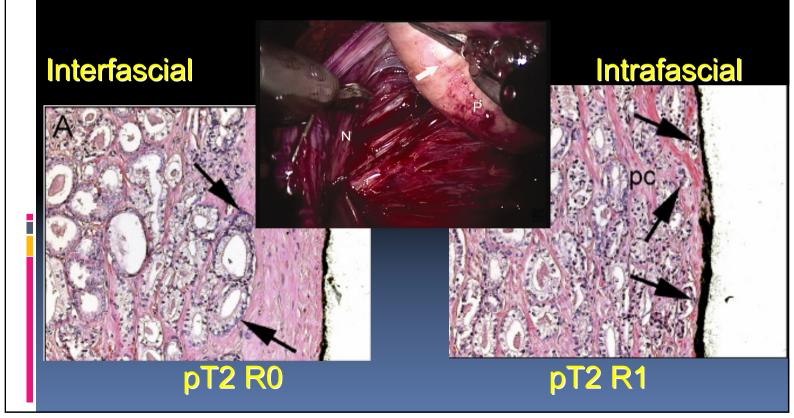




BORIN JF: Impact of urethral stump length on continence and positive surgical margins in RALP. Urology 70:173-177; 2007.

AHLERING TE: RRP: A technique to reduce pT2 positive margins.Urology 2004;64,1224. UROLOGÍA CLÍNICA

# Excellent 3D magnificed view for precise NVB posterolateral dissection



#### Improve PMR with increase expe

Author	N° cases	PT2	PASS	PMR
Menon 03	100	85%	14%	15%
Menon 07	2652	78%	22%	13%
Patel 05	200	88%	12%	10,5%
Patel 06	500	78%	15%	9,4%
Ahlering 04	90	71%	27%	16,7%
Ahlering 06	1090	76%	24%	13,3%

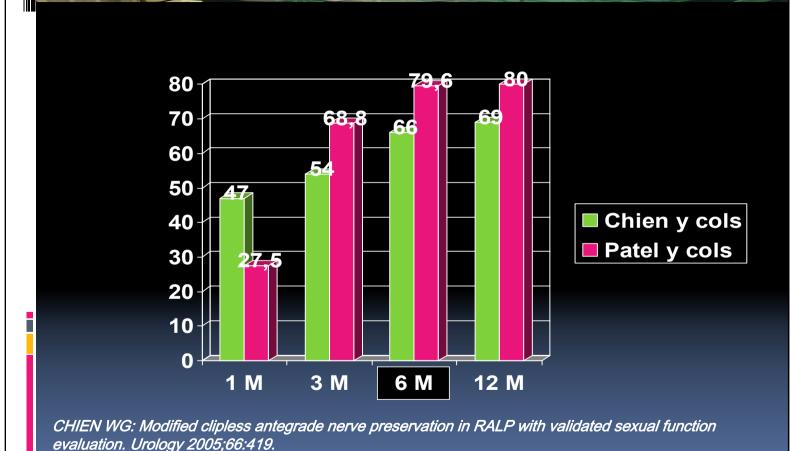
AHLERING T: Multiinstitutional review of pathological margins after RALP. J Urol 2006;175: 217. PATEL V: RRP in the community –setting the learning curve and beyond: initial 200 cases. J Urol 2005;174:269.

#### Could robotic surgery improve sexual function recovery after RP? And how can we do it?

- "Probably the best major surgical advancement in last 10 to 15 years that can improve potency rates ".
- Early potency recovery results are impressive.
  - Sexual function first year:
  - 53% (Zorn KC) 96% (Menon M): 80,4%
  - Faster recovery: 180 days vs 440 days:

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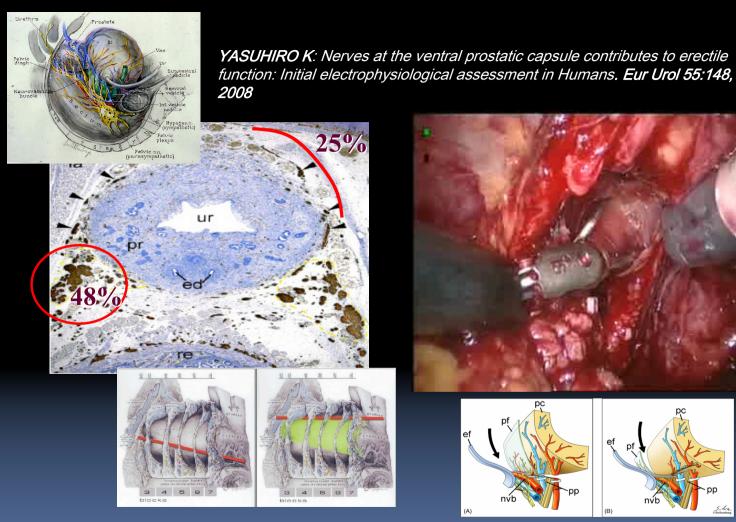
Coughlin G: Prostatectomía radical asistida por robot: Resultados funcionales. Arch Esp Urol 2007, 60:408



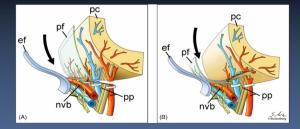
COUGHLIN G: Prostatectomía radical asistida por robot: Resultados funcionales. Arch Esp Urol 2007,

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60:408







SAVERA AT, KAUL S;BADANI K: Robotic radical prostatectomy with the "Veil of Aphrodite" technique: histologic evidence of enhanced nerve sparing. Eur Urol 2006;49:1065-1074.



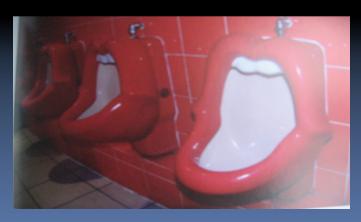
## Could robotic surgery improve early continece recovery? And how can we do it?

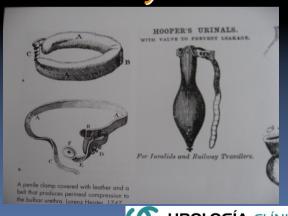
#### •FASTER AND BETTER CONTINENCE RECOVERY

- Continence rate 1 year:

80% (Cheng W)- 98% (Menon M): 94%

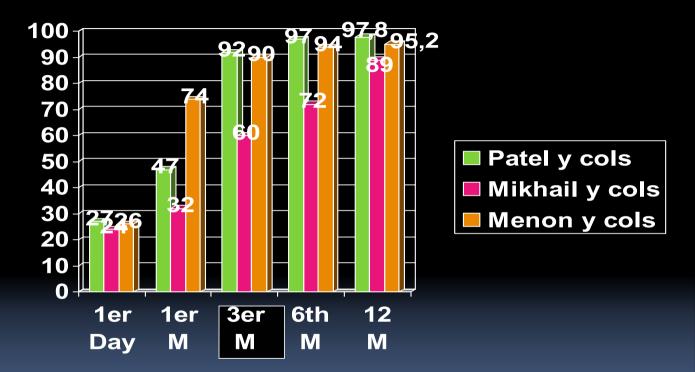
- Continence Faster: 44 days vs 169 days.







### Early continence recovery after RRP



1er day (25%), 1er month (50%) and 3 months (90%) Median time to continence: Between 3 to 8 weeks



# What abbout diferent reconstructive modalitties to improve early continence recovery?

#### ( PUBOPERINEOPLASTY- ANTERIOR RECONSTRUCTION) TAKENAKA A.

Preservation of the puboprostatic collar and puboperineoplasty for early recovery of urinary continence after robotic prostatectomy: Anatomic basis and preliminary outcomes. **Eur Urol 51:433;2007** 

Continencia 29% en 1ª semana y 62% en 6 semanas

#### ( POSTERIOR RECONSTRUCTION)

#### ROCCO F:

Restoration of posterior aspect of rhabdosphincter shorte continence time after radical retropubic prostatectomy.

J Urol 2006; 175: 2201

mejoría del 30% al 74% en 1º mes

(ROCCO B 2007

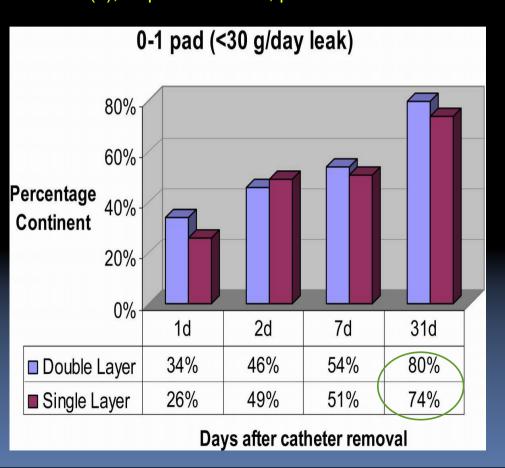
y del 3 al 34% (NgUYEN MM 2008

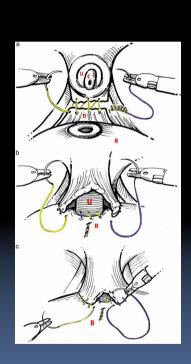


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CAMPENNI MA. Improved continence after radical retropubic prostatectomy using two pubourethral suspension stitches. Urol Int 68:109, 2002.

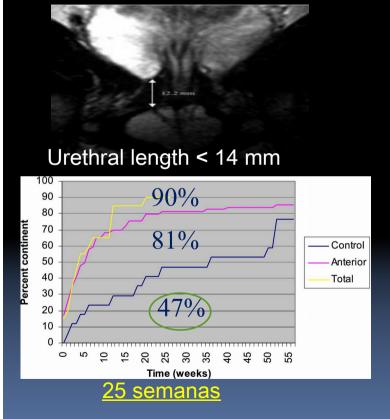
Menon M: Assessment of Early Continence After Reconstruction of the Periprostatic Tissues in Patients Undergoing Computer Assisted (Robotic) Prostatectomy: Results of a 2 Group Parallel Randomized Controlled Trial. J Urol 180(3), September 2008, p 1018–1023

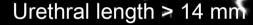


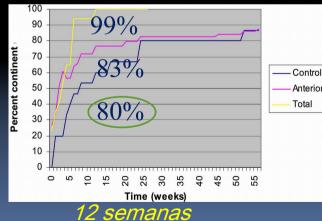




Nguyen L: Surgical Technique to Overcome Anatomical Shortcoming: Balancing Post-Prostatectomy Continence Outcomes of Urethral Sphincter Lengths on Preoperative Magnetic Resonance Imaging. J Urol 179(5), May 2008, p 1018-1023







COAKLEY FV. Urinary continence after RRP: relationship with membranous urethral length on preoperative endorectalMRI. J Urol 168:1032, 2002

## ROBOTIC RP: GOLD-STANDAR? Sexual function Urinary continence 80,4% first year 94% first year 3-8 weeks 6-7 months Oncological Outcomes PMR: 19,4% ( UROLOGÍA CLÍNICA

da Vinci® vs. Open vs. Conventional Laparoscopy						
Outcome	da Vinci®	Open	Lap			
Cancer control						
T2 margin status	2.51	5.9²	7.73			
Complications						
Estimated blood loss (EBL)	109 ml⁴	1355 ml <sup>s</sup>	380 ml <sup>6</sup>			
Length of stay (LOS)	1.2 days⁴	3 days <sup>5</sup>	2.5 days <sup>13</sup>			
Major	1.7%4	6.7%5	3.76			
Minor	3.7%4	12.6%5	14.6%6			
Urinary function						
3 month	92.9%7	54%8	62%9			
6 month	94.9%7	80%8	77%9			
12 month	97.4%7	93%8	83%9			
Sexual function						
12 month	86%10	71%11	76%12			

"In future we must be aware, watching in all directions, with our eyes clearly open to avoid missing amazing things happening around us.... as MONA LISA is always doing "

