

# PE19 Retzius-sparing robot assisted radical prostatectomy: Learning curve experiences in 3 continents

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**Introduction & Objectives:** Retzius-sparing RARP (RSP) is a brand new approach for radical prostatectomy, which was invented and popularized by our group since 2010. Objective of the present study is to evaluate the oncological and functional results of the learning curve period of RSP in 12 different centers throughout the world.

**Materials & Methods:** We retrospectively evaluated the first cases operated by 14 surgeons in 12 different centers. We collected in an Excel database all the pre-, peri- and postoperative features of the first 50 patients operated by each surgeon in all the participating centers. Follow-up was collected in the center of provenience. We divided the series into 2 groups of 25 patients, in order to evaluate the learning curve effects on perioperative features, positive surgical margins, continence and potency recovery.

**Results:** We evaluated 626 patients operated by 14 surgeons in 12 centers. Table 1 summarizes the main features of the series and the differences found during the learning curve improvements. Preoperative features were overlapping between the two groups (except for a higher percentage of patients exiting an active surveillance program in the second group), we found a lower console and surgical time in the second group; positive surgical margins, BCR rates, continence and potency data were not significantly different between the 2 groups.

Feature	1-25	26-50	P
Age	65	64	0.273
BMI	25.81	25.99	0.456
Previous prostate surgery	19.7%	11%	0.329
Previous abdominal surgery	21.5%	25.7%	0.360
Active surveillance	6.5%	1.1%	0.001
PSA	7.1	7	0.896

Risk classification	Low	23.4%	Low	26.5%	0.447
	Interm	52.9%	Interm	47.6%	
	High	23.7%	High	25.8%	
Surgical time	195		180		0.04
Console time for prostatectomy	140		120		0.001
Intraop transfusion	0.3%		0		0.946
Catheter	7		7		0.558
Discharge	3		3		0.727
Prostate weight	40		45		0.502
pT	T2	63.6%	T2	61.5%	0.675
	T3a	25.1%	T3a	27.5%	
	T3b-4	11.3%	T3b-4	10.6%	
pN	Nx	58.4%	Nx	57.5%	0.911
	N0	23.4%	N0	22.9%	
	N+	18.2%	N+	19.6%	
PSMs	Neg	67%	Neg	62.2%	0.481
	Foc	16.8%	Foc	18.9%	
	Pos	16.2%	Pos	18.9%	
PSMs in pT2	Neg	82.4%	Neg	81.4%	0.768
	Foc	10.2%	Foc	8.7%	
	Pos	7.4%	Pos	9.9%	
Continence	Immediate	82.4%	Immediate	77%	0.097
	Follow-up	93%	Follow-up	87.3%	0.068
Potency (<65y, bil intrafascial)	73.2%		79%		0.086
Free from bCR	95.4%		95.7%		0.804
Follow-up (median)	13		9		0.002

**Conclusions:** We report the first multicentric experience on Retzius-sparing RARP during the learning curve. We found that 50 cases are enough to perform it in less than 2 hours with reasonable PSM rates, continence and potency recovery.