Study details	Participant characteristics			Intervention cha	Intervention characteristics		
<b>Author, year</b> : Gosseine 2009 <sup>91</sup>	Inclusion criteria: not reported Exclusion criteria: not reported			A. Robotic prostatectomy: trade name of robot: da Vinci system			Safety: surgical complications,
Language: French		٨		B. Laparoscopic	operating time, hospital stay, catheterisation, blood		
Publication type: full text		A	В	Nerve sparing for erectile function:			
Number of study centres:	Patients, n	122	125		А	В	loss
1 <b>Setting</b> : hospital	Age (years), mean (SD)	60.6 (6.1)	61.7 (6.8)	Non-nerve	30 (25)	45 (36)	<b>Dysfunction</b> : urinary incontinence
Country: France	BMI (kg/m²),	26.7 (3.4)	27.2 (3.5)	sparing, // (%)	10 (10)	10	
Recruitment/treatment	mean (SD)			Unilateral,	16 (13)	13 (10 4)	
dates: March 2004–April 2007	Previous TURP, <i>n</i>	2	4	Bilateral, <i>n</i> (%)	76 (62)	(10.4) 64 (5.12)	
Prospective/ retrospective data collection: prospective	PSA (ng/ml), mean (SD)	7.37 (4.3)	7.87 (5.09)	Bladder neck preservation,	97 (79)	(3.12) 53 (42)	
Patients recruited	Clinical stage,	n <i>(%)</i>		n (%)			
consecutively: yes	T1	70 (57.4)	78 (62.4)	Not reported	0	3 (2.4)	
Length of follow-up: 3 years	T2	52 (42.6)	47 (37.6)	// (%) 			
Source of funding: not	Biopsy Gleaso	<i>n score,</i> n (%	)				
reported	≤6	73 (59.8)	86 (68.8)				
Systematic reviewer: CR	7	42 (34.4)	36 (28.8)				
	8–10	7 (5.8)	3 (2.4)				
	BMI, body mass transurethral re	index; TURP, section of the	prostate.				

continued

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Study details	Participant characteristics			Intervention characteristics			Outcomes
Author, year: Hu 2006 <sup>92</sup> Language: English	Inclusion criteria: patients had radical prostatectomies with laparoscopic or robotic procedures Exclusion criteria: patients with neoadjuvant hormonal therapy			<ul> <li>A. Robotic prostatectomy: trade name of robot: da Vinci system; approaches: trans-peritoneal</li> <li>B. Laparoscopic prostatectomy: approaches: trans-peritoneal (both</li> </ul>			Safety: surgical complications, operation time Death Learning curve:
Number of study centres:							
Setting: hospital		Α	В		nique); nerv	e sparing	operating time
Country: US Recruitment/treatment	Patient 671 enrolled	517	Unilateral,	A B 27 (8.4) 23 (6.4)	-		
dates: A: June 2003–June 2004; B: October 2000–	Patient analysed	322	358	<i>n</i> (%) Bilateral,	259	237	
January 2003 Prospective/	Age, mean (range)	62.1 (41- 84)	63.7 (40- 83)	<i>n</i> (%) Non-sparing,	(80.4) 35 (0.9)	(66.2) 87 (24.3)	
retrospective data collection: mixture	BMI, median (range)	27.5 (17.8- 51.5)	27.4 (17.9- 43.8)	n (%)			
Patient recruited consecutively, Y/N: no	Previous abdominal	37/322 (11.5%)	39/358 (10.9%)	All patients (A ar lymph node diss	nd B) had bil ection	ateral pelvic	
Length of follow-up: not reported	surgery						
Source of funding: not reported	г <i>э</i> А, шу/ш						
Systematic reviewer: X.I	0-4		55 (15.4%)				
o you made reviewer. Ae	4-10	213 (00.4%)	247 (09%)				
	10	42 (13.1%)	30 (13.0%)				
	<i>Clinical stage,</i> n <i>(%)</i>						
	T1a	1 (0.3)	6 (1.7)				
	T1b	0	2 (0.6)				
	T1c	231 (74.5)	261 (72.9)				
	T2a	59 (19.0)	72 (20.%)				
	T2b	11 (3.5)	4 (1.1)				
	T2c	7 (2.3)	10 (2.8)				
	ТЗа	1 (0.3)	1 (0.3)				
	T3b	0	2 (0.6)				
	Biopsy Gleas	<i>son score,</i> n <i>(%)</i>	)				
	1–5	5 (1.6)	9 (2.5)				
	6–7	289 (93.5)	322 (90.2)				
	8–10	15 (4.9)	26 (7.3)				

Study details	Participant chara	Participant characteristics			characteristic	Outcomes	
Author, year: Joseph 2007 <sup>94</sup>	Inclusion criteria: patients underwent prostatectomy			A. Robotic prostatectomy B. Laparoscopic prostatectomy:			Efficacy: margins, pathological Gleason
Language: English	Exclusion criteria	: not reported		approaches: e	extraperitoneal	-	score
Publication type: conference abstract		Α	В	Lymph node	dissection:		
Number of study centres: 2	Patients enrolled, <i>n</i>	754	800	Yes. <i>n</i> (%)	A 281 (37.3)	B 322 (40.3)	
Setting: hospital	Age (years), mean (range)	60.0 (40–78)	64.9 (43–77)	No (%)	(62.6)	(59.7)	
Recruitment/treatment	BMI (kg/m²), mean (range)	28.5 (17.7– 56.2)	27.2 (16.5– 44.8)				
University of Rochester Medical Centre; B: 2002–6	PSA (ng/ml), mean (range)	6.6 (0.1– 39.0)	10.1 (1.5–99)				
of Creteil	Clinical stage, I	ו <i>(%)</i>					
Prospective/	T1a-b	0	14 (1.8)				
retrospective data	T1c	452 (75.2)	643 (80.4)				
Patients recruited	T2	148 (24.6)	141 (17.8)				
consecutively: not	Т3	1 (0.2)	0				
reported	Not reported	153	2				
Length of follow-up: not reported	Biopsy Gleason score,	6.3 (4–9)	6.2 (4–9)				
Source of funding: none	mean (range)						
Systematic reviewer: XJ	Prostate size (g), mean (range)	55.4 (21–141)	55.6 (22–192)				

BMI, body mass index.

Inclusion criteria: last 50 patients in a

series with localised prostate cancer who had

laparoscopic radical prostatectomy or robot-

Author, year: Joseph 200593 (considered separate to Joseph 200794 but may include patient

but may include patient	assisted prostatectomy	1	
overlap for US patients)	Exclusion criteria: firs	t 50 cases in	each
Language: English	laparoscopic and robot	-assisted seri	es
Publication type: full text		Α	В
Number of study centres: 1	Patients enrolled, n	50	50
Setting: hospital	Age (years), mean (95% Cl)	59.6 (1.6)	61.
Recruitment/treatment dates: not reported	PSA (ng/ml), mean (95% Cl)	7.3 (1.2)	6.0
Prospective/ retrospective data collection: retrospective	<i>Clinical stage,</i> n T1c	43	34
Patients recruited consecutively: not reported	T2a T2b Biopsy Glosson	6 1 6 (0 15)	14 2
Length of follow-up: not reported	score, mean	0 (0.15)	U (U
Source of funding: not reported	mean	JJ (J.J)	51
Systematic reviewer: CR			

## A. Robotic prostatectomy

B. Laparoscopic prostatectomy N٨ rve sparino

verve sparing:						
	Α	В				
Unilateral, n (%)	1 (2)	10 (20)				
Bilateral, n (%)	46 (92)	24 (48)				
Non-sparing, <i>n</i> (%)	3(6)	16 (32)				

## Dysfunction: urinary incontinence, erectile dysfuntion, potency

continued

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51 (4.1)

61.8 (1.6)

6.0 (0.83)

Study details	Participant characteristics			Intervention characteristics	Outcomes
Author, year: Menon 200295	Inclusion criteri	a: patients with e cancer under	ı clinically going	<ul> <li>A. Robotic prostatectomy: first</li> <li>22 patients were operated using</li> <li>Montsouris technique; later 18 patients</li> <li>were operated using Vattikuti Institute</li> <li>technique</li> <li>B. Laparoscopic prostatectomy:</li> <li>performed using classical Montsouris</li> <li>technique</li> </ul>	Equipment failure Safety: surgical complications, operating time, discharge, blood loss Efficacy: margins, pT stage, pathological Gleason score, PSA
Language: English Publication type: full text	prostatectomy; p surgery, weighin	atients medical g < 250 lb (thos	ly fit to undergo se weighing		
Number of study centres: one	>2501b were re prostatectomy), v mass index < 35	vaist size < 45 kg/m²; patient	inches, body s with previous		
Setting: hospital	abdominal surge	ry were include	0		
Country: France		Α	В		recurrence
Recruitment/treatment dates: October 2000– October 2001	Patients enrolled, n	50	48		Death (none) Learning curve:
Prospective/ retrospective data	Patients analysed, <i>n</i>	40	40		operating time
collection: prospective	Age (years),	60.7 (7.6)	62.8 (7.0)		
Patients recruited	mean (SD)				
consecutively: yes	BMI (kg/m <sup>2</sup> ),	27.7 (3.2)	27.7 (2.5)		
Length of follow-up:	mean (SD)	E Z (2 0)	60(11)		
months; B: 8.5 (3.2) months	mean (SD)	D.7 (J.Z)	0.9 (4.4)		
Length of follow-up for	Clinical stage	, n <i>(%)</i>			
functional outcomes,	T1c	28 (70)	26 (65)		
mean: A: 1.5 months; B: 6.5 months	T2	12 (30)	14 (35)		
Follow-up carried out with telephone survey by third party	BMI, body mas	s index.			
Source of funding: not reported	Number of patier prostatectomy du	nts undergoing uring the study:	open =115		
Systematic reviewer: PS					

Study details	Participant characteristics			Intervention	characteristi	Outcomes	
Author, year: Rozet 200796	Inclusion criteria: patients underwent robotic A. Robotic prostatec			ostatectomy	statectomy: robot trade Safety: surg		
Language: English	or laparoscopic p	rostatectomy		name: da vind	n system; app	operating time, catheterisation, blood	
Publication type: full text		Α	В				
Number of study centres: 1	Patient enrolled, n	133	758 (operated	approaches: extra-peritoneal nerve sparing			loss, blood transfusion Efficacy: margins, pT
Setting: hospital			at the same		Δ	B	stage, pathological
Country: France			period)				Gleason score
Recruitment/treatment dates: May 2003–May	Patient analysed, <i>n</i>	133	133 (match- pair)	Unilateral, <i>n</i> (%)	35 (27.8)	30 (23.8)	Death Learning curve:
2005 Prospective/	Age, mean (range)	62.0 (49–76)	62.5 (47–74)	Bilateral, <i>n</i> (%)	91 (72.2)	96 (76.2)	operating time
retrospective data collection: not reported	BMI, mean (range)	24.8 (18.8– 35.5)	25.3 (19.3– 32.7)	l vmph node	dissection <sup>.</sup>		
Patient recruited	Previous	51	51	Lymph nouo			
consecutively, Y/N: yes	abdominal/				А	В	
for group A	peivic surgery	7.0 (0.0	7.0 (0.0	No, <i>n</i> (%)	131	130	
reported	PSA, ng/mi, mean (range)	7.6 (0.9– 38.0)	7.8 (3.2– 19.0)	$V_{00} = n \left( \frac{0}{2} \right)$	(98.5) 2 (1.5)	(97.7) 3 (2.3)	
Source of funding: not reported	Clinical stage,	n <i>(%)</i>		103, 11 (70)	2 (1.0)	0 (2.0)	
Systematic reviewer: XJ	T1b	0	1 (0.8)				
	T1c	76 (57.1)	90 (67.7)				
	T2a	51 (38.3)	39 (29.3)				
	T2b	6 (4.5)	2 (1.5)				
	ТЗа	0	1 (0.8)				
	Biopsy Gleaso	Biopsy Gleason score, mean					
		6.3 (4.0– 9.0)	6.3 (4.0–9.0)				
	≤ 6	101 (76%)	93 (70%)				
	7	29 (21.8%)	37 (27.8%)				
	8–10	3 (2.2%)	3 (2.2%)				

continued

Study details	Participant characteristics			Intervention characteristics	Outcomes
Author, year: Sundaram 200497	Inclusion and ex	clusion criteri	a: not reported	A. Robotic prostatectomy	Safety: operating time, hospital
Language: English		Α	В	D. Laparoscopic prostatectority	stay, surgical
Publication type:	Patients, n	10	10		complications, blood
conference abstract	Age (years),	59.5	58.7		Efficacy: marging
Number of study centres:	mean (range)	(53–69)	(50–66)		Enicacy. margins
1	PSA (ng/ml),	5.2	5.3		incontinence
Setting: hospital	mean (range)	(3–7.9)	(4.7–6)		
Country: USA	Clinical stage,	n			
dates: not reported	T1c	9	7		
Prospective/	2a	1	3		
retrospective data collection: not reported					
Patients recruited					
consecutively: yes in					
fon lanaroscopic group					
Length of follow-up: mean: 3 months					
Source of funding: not reported					
Systematic reviewer: XJ					
<b>Author, year</b> : Trabulsi 2008 <sup>98</sup>	Inclusion criteri prostate cancer t	a: men with clin reated with eith	ically localised er robotic or	A. Robotic prostatectomy: used da Vinci system; surgical approaches	Safety: open conversion, blood los
Language: English	laparoscopic pros	statectomy		when indicated (in intermediate- and	Efficacy: margins, p
Publication type: full text		Α	В	high-risk patients): 14 (28%)	stage, pathological Gleason score
Number of study centres:	Patients, n	50	190	B. Laparoscopic prostatectomy:	
Catting: beenited	Age (years),	57.7	58.6	surgical approaches transperitoneal;	
	mean (range)	(37–60)	(43–74)	lymph hodes dissection: same indication as above: 51 (27%)	
Decruitment/treatment	BMI (kg/m²),	28.4 (20.4–	26.8 (18.8–		
dates:	mean (range)	36.6)	51.8)		
A: October 2005–August 2006	PSA (ng/ml), mean (range)	5.5 (1.1– 21.1)	6.5 (0.4– 46)		
B: March 2000–December	Clinical stage,	n <i>(%)</i>			
2005	T1c	41 (82)	145 (76)		
Prospective/	T2a	9 (18)	40 (21)		
retrospective data	Not reported	0	5		
Patients recruited		-	-		
consecutively: not	Biopsy Glease	<i>n score,</i> n <i>(%)</i>			
reported	≤6	36 (72)	136 (72)		
Length of follow-up: not	3+4	8 (16)	31 (16)		
reported	4+3	4 (8)	6 (3)		
Source of funding: not	≥8	2 (4)	3 (2)		
Systematic reviewer: V	Prostate size	41 (16–	43.3		
Systematic reviewer. AJ	(g), mean (range)	102)	(14–156)		

BMI, body mass index.