MP 19-07 Longitudinal analysis of trifecta outcome in robot-assisted laparoscopic radical prostatectomy

Trifecta definition

Cancer control

Two consecutive PSA

levels of > 0.2 ng/mL

0-1 pads

Continence

Erections firm

enough for sexual

activity or sexual

intercourse

Potency



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Introduction

- ✓ Since the widespread use of PSA screening, patients are more commonly diagnosed with low grade and low stage prostate cancer (PC)
- ✓ Once PC control is achieved, the patient will focus on continence and potency.
- ✓ The traditional concept of trifecta consists of continence, potency, and cancer control.
- ✓ The trifecta is most emphasized as the true endpoint in patient with localized PC.
- In the previous studies, trifecta rate is reported to 20-91% and the follow-up period is various with 12-54 months.
- ✓ It can be a major problem to evaluate postoperative outcome, because cancer recurrence and functional recovery vary with time.
- ✓ There is no study to analyze longitudinally. trifecta rate in robot-assisted laparoscopic radical prostatectomy (RARP)

Objectives

 To analyse the trifecta outcome (continence, potency, and cancer control) **longitudinally** in RARP

Patients

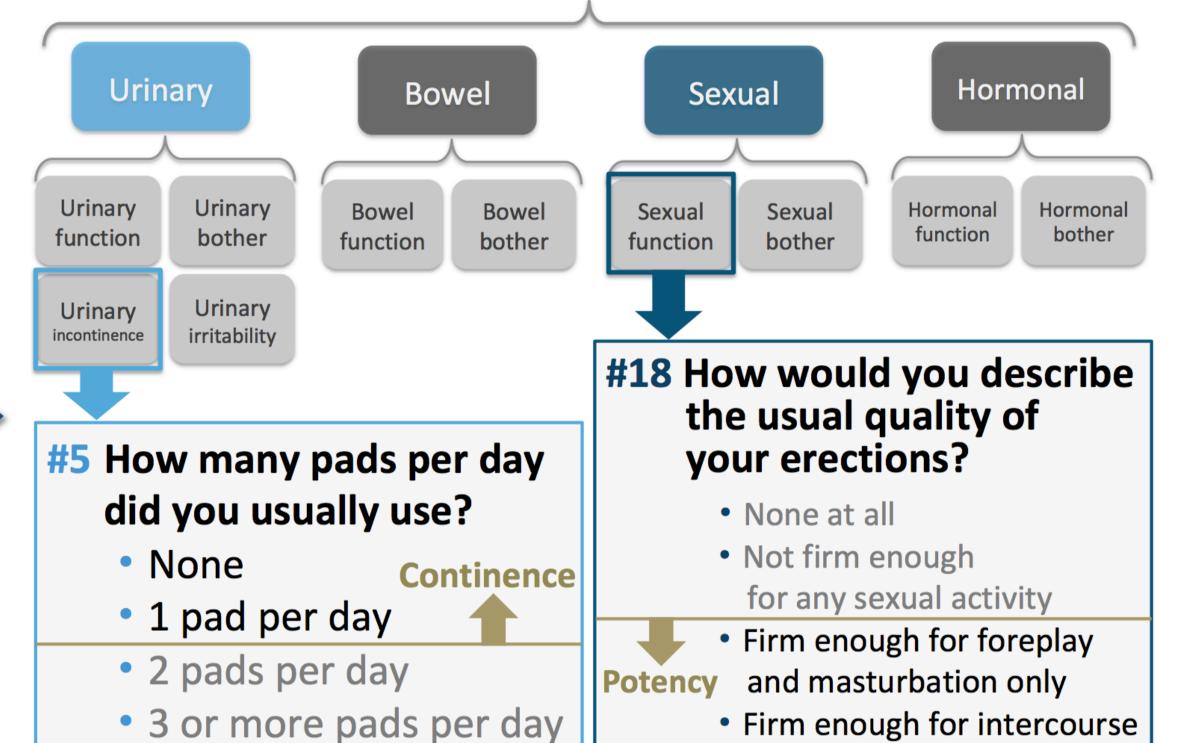
Characteristics	Overall	Nerve sparing (+)	Nerve sparing (–)	P-value
No. of patients	291	100	191	· varac
Age, yr, mean	66.2	64.5	67.1	0.0013
Body mass index, kg/m ² , mean	23.4	23.4	23.4	0.9516
Serum PSA at diagnosis, ng/ml	8.67	6.77	9.67	0.0005
Prostate volume, mL, mean	30.2	30.9	29.8	0.5548
Pathological T stage, n (%)				
pT2	230(79)	92(92)	138(72)	0.0002
pT3a	47(16)	6 (6)	41(21)	
pT3b	14 (5)	2 (2)	12 (6)	
Pathological grade group, n (%)				
1	18 (6)	12(12)	6 (3)	0.0001
2–3	197(69)	79(79)	118(63)	
4–5	72(25)	9 (9)	63(34)	
Risk class, n (%)				
Low	46(16)	26(26)	20(10)	0.0001
Intermediate	151(52)	68(68)	83(43)	
High	94(32)	6 (6)	88(46)	
Operative time, min, mean	206.5	205.8	206.9	0.8654
Estimated blood loss, mL, mean	190.8	244.3	162.8	0.0008

Methods

Longitudinal study

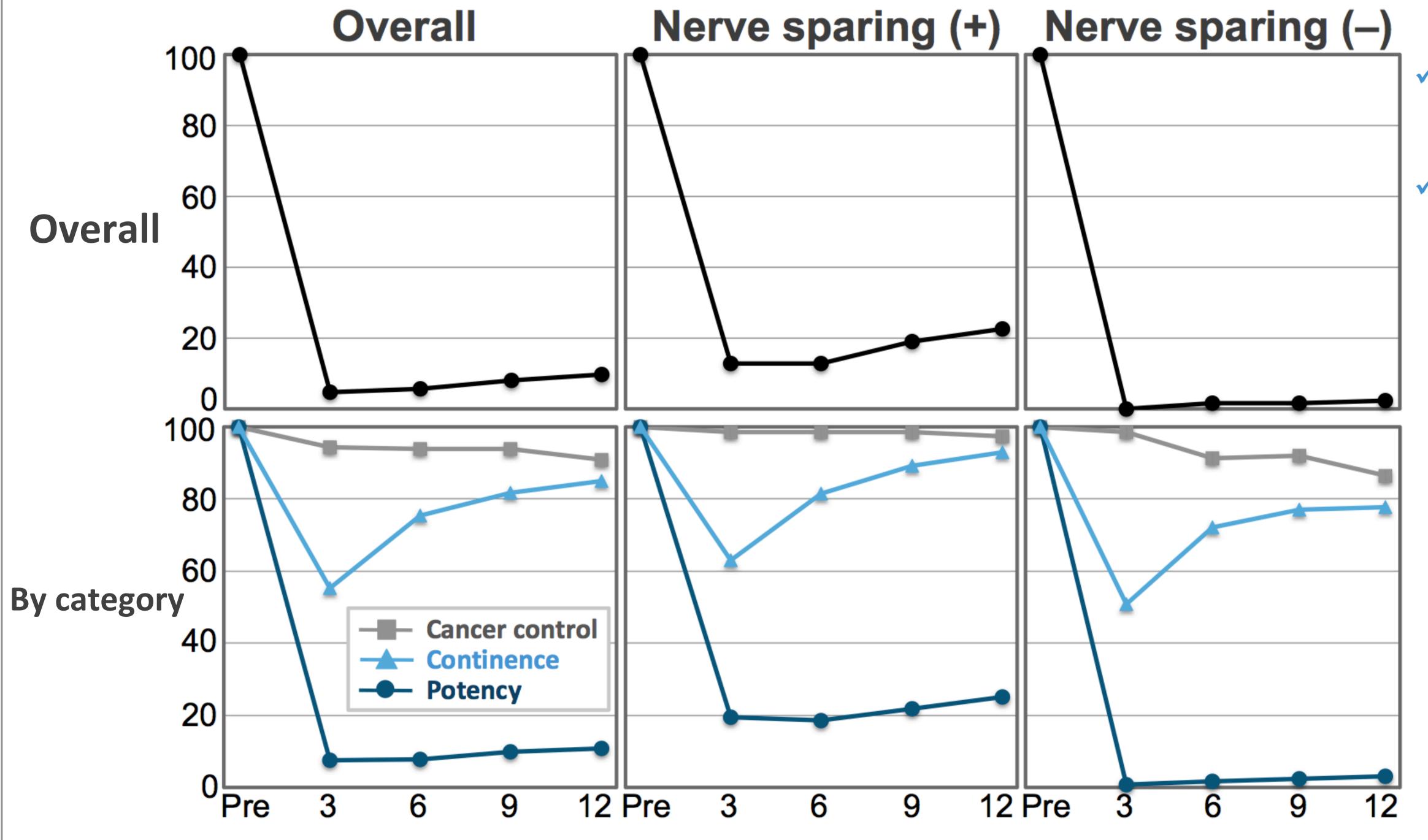
- We prospectively obtained one-year longitudinal EPIC data (preoperative and at 3, 6, 9, and 12 months after RARP) from 458 patients who underwent RARP performed by a single surgeon.
- We exclude 167 patients with incontinence or erectile dysfunction patients at preoperative.

3M 9M 6M 12M EPIC (Expanded Prostate Cancer Index Composite)



Results

Trifecta outcome according to nerve-sparing procedure



Conclusions

- ✓ Trifecta outcomes more accurately reflect patient expectations following RARP.
- ✓ In our longitudinal analysis, potency rate was found to be associated with the achievement of trifecta.

Conflict of Interest Disclosure Name: Shogo Inoue

I have no potential conflicts of interest to report.

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