

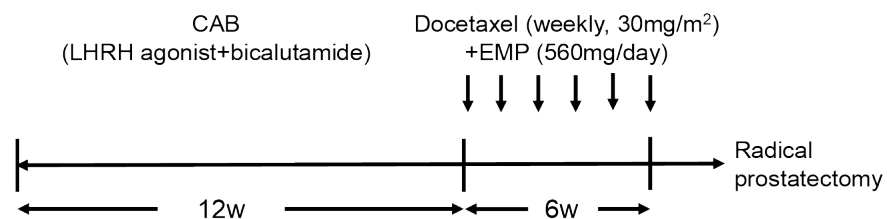
MP14-02 Outcomes of neoadjuvant chemohormonal therapy with complete androgen blockade, followed by treatment with docetaxel and estramustine phosphate before radical prostatectomy in patients with high-risk localized prostate cancer : A propensity-score matching analysis

Shintaro Narita^{1,8}, Taketoshi Nara¹, Sohei Kanda¹, Kazuyuki Numakura¹, Mitsuru Saito¹, Takamitsu Inoue^{1,8}, Norihiko Tsuchiya², Shigeru Satoh¹, Hiroshi Nanjyo³, Koji Mitsuzuka^{4,8}, Takuya Koie^{5,8}, Sadafumi Kawamura^{6,8}, Chikara Ohyama^{5,8}, Tatsuo Tochigi^{6,8}, Yoichi Ara^{4,8}, Tomonori Habuchi^{1,8}

¹Department of Urology, Akita University School of Medicine, ²Department of Urology, Yamagata University School of Medicine, ³Department of Pathology, Akita University School of Medicine, ⁴Department of Urology, Tohoku University School of Medicine, ⁵Department of Urology, Hirosaki University School of Medicine, ⁶Department of Urology, Miyagi Cancer Center, ⁷Department of Urology, Omagari Kosei Medical Center, ⁸Michinoku Japan Urological Cancer Study Group

Here we show updated results of our study assessing the clinical outcome in patients who underwent Neoadjuvant chemohormonal therapy (NAC) followed by radical prostatectomy (RP) with a longer follow-up period, a comparison with the outcome of RP alone.

Schedule for NAC



*CAB: complete androgen blockade, EMP: estramustine phosphate

Patient characteristics

Total no. of patients		60
Age (yrs, mean±SD)		65.4±5.4
Initial PSA (ng/mL, mean±SD)		27.4±20.8
Clinical T stage	1c	19 (31.7)
	2	22 (36.7)
	3a	15 (25.0)
	3b	4 (6.7)
Biopsy Gleason score	≤6	4 (6.7)
	7	14 (23.3)
	≥8	42 (70.0)
Number of high-risk factors	1	34 (56.7)
	2	18 (30.0)
	3	8 (13.3)

Pathological outcomes

		N (%)
Pathological T stage	0	6 (10.0)
	2a	44 (73.3)
	3a	5 (8.3)
	3b	5 (8.3)
Pathological N stage	0	55 (91.7)
	1	5 (8.3)
Resection margin	0	58 (96.7)
	1	2 (3.3)
Chemotherapy effect	0	1 (1.7)
	1	28 (46.7)
	2	25 (41.7)
	3	6 (10.0)

Chemotherapy effect
 Grade 0: viable in all cells
 Grade 1: non-viable <1/2
 Grade 2: non-viable ≥1/2
 Grade 3: non-viable

Adverse events

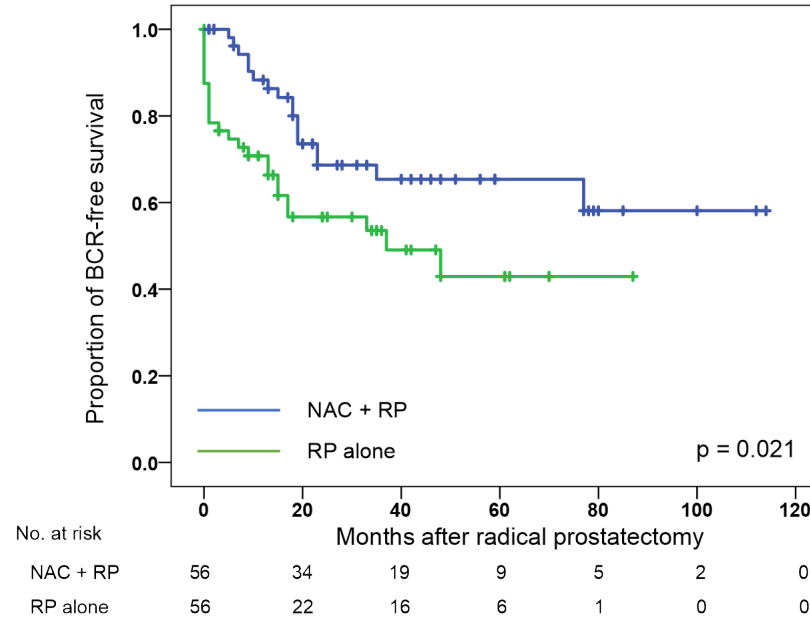
Type	No. of patients	%
Urine leakage	3	5.0
Lymphocele	4	6.7
Ureteral injury	1	1.7
Wound infection	3	5.0
Hematoma	2	3.3
Peripheral nerve disorder	1	1.7
Pulmonary embolism	3	5.0
Bladder stone	1	1.7
Deep venous thrombs	3	5.0
Leg edema	1	1.7

Grade 3 adverse events were observed in 8 patients (13.3%)

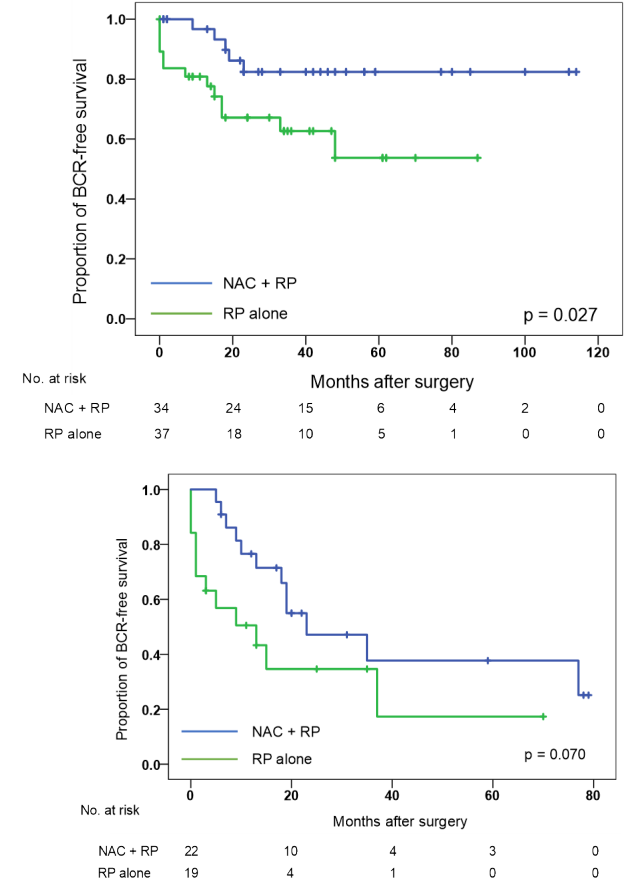
Characteristics in matched groups

	Matched			
	NAC+RP (%)	RP alone (%)	p value	
Total no. of patients	56	56		
Age (yrs, median±SD)	65.4±5.3	66.4±5.9	0.348	
Initial PSA (ng/mL, median±SD)	26.7±2.8	23.4±2.3	0.363	
Clinical T stage	1c	19 (31.7)	6 (36.1)	0.108
	2	22 (36.7)	23 (30.4)	
	3	15 (31.7)	27 (31.5)	
Biopsy Gleason score	6≤	4 (6.7)	6 (14.0)	0.971
	7	14 (23.3)	23 (42.1)	
	≥8	38 (48.3)	27 (13.8)	

BCRFS (NAC+RP vs RP alone)



BCRFS based on number of risk



Conclusion

- NAC followed by RP reduced the BCR risk in patients with high-risk PCa, particularly those with a single high-risk factor in a propensity score matched analysis.
- We should pay closer attention to perioperative complications during NAC followed by RP.
- Survival benefits should be assessed with a larger number of the patients and a longer follow-up.