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# The impact of treatment modality on survival in patients with clinical node-positive bladder cancer:

#### results from a multicenter collaboration

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#### INTRODUCTION

No clear data exists regarding the **optimal management** of patients affected by **bladder cancer** (BCa) **with clinical node metastases** (cN+).

### AIM OF THE STUDY

To test the impact of perioperative chemotherapy on overall survival (OS) in cN+ BCa patients and analyzed them according to the pN status

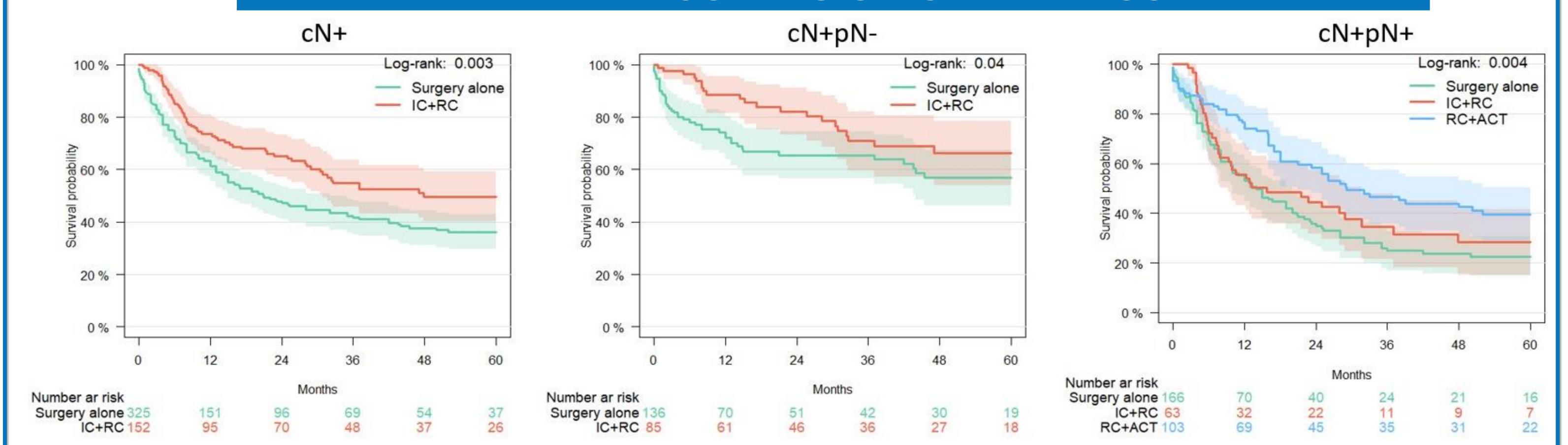
# MATERIALS AND METHODS

- Retrospective analysis of data of **639 patients** with **cN1-3M0 BCa** treated with **RC and bilateral LND** with or without perioperative chemotherapy at 7 tertiary care centers between 1990 and 2017.
- Selected cN+ patients received induction chemotherapy (IC), whereas adjuvant chemotherapy (ACT) was delivered to selected pN+ patients.
- Kaplan-Meier curves, uni- and multivariable Cox regression analyses were used to predict overall mortality (OM) after surgery.

# STUDY POPULATION

Variables	Overall (n= 639, 100%)	RC+LND only (n= 356, 55.7%)	IC with RC+LND (n= 155, 24.3%)	RC+LND with ACT (n= 128, 20%)	p value
cN stage					
1	446 (69.8)	266 (74.7)	98 (63.2)	82 (64)	<0.001
2	119 (18.6)	68 (19.1)	22 (14.2)	29 (22.7)	
3	74 (11.6)	22 (6.2)	35 (22.6)	17 (13.3)	
pN stage					
0	273 (42.8)	169 (47.4)	88 (57)	17 (13.3)	<0.001
1	167 (26.1)	81 (22.7)	32 (19.9)	55 (42.9)	
2	139 (21.7)	82 (23.3)	17 (11.3)	38 (29.7)	
3	60 (9.6)	24 (6.6)	18 (11.9)	18 (14.1)	
Follow up	25 (7-59.2)	18 (3.6-53.7)	30 (13.3-59.2)	54 (12-83)	<0.001

### KAPLAN-MEIER CURVES ON OVERALL SURVIVAL



#### CONCLUSIONS

- 1. Patients with cTany cN+ cM0 BCa benefit more in terms of OS when treated with IC followed by RC + LND compared to RC + LND alone, regardless of lymph node metastases at final histopathology examination.
- 2. Even though **our study showed that ACT leads to superior OS** in patients with **confirmed nodal metastases compared to IC**, more data are needed to assess its definitive role in the management of cN+ patients.