

# CONCOMITANT CARCINOMA IN SITU AT RADICAL CYSTECTOMY: SURVIVAL, RECURRENCE AND FOLLOW-UP IMPLICATIONS

Giovanni La Croce, Richard Naspro, Paolo Barzaghi, Michele Manica, Federico Pellucchi, Lorenzo Rocchini, Antonio Saccà, Diego Angiolilli, Marco Roscigno, Luigi Filippo Da Pozzo

ASST PAPA GIOVANNI XXIII BERGAMO, Department of Urology

## Introduction & objectives:

- The presence of carcinoma in situ (CIS) at transurethral resection increases the risk of progression to invasive disease and recurrence.
- The evidence about the presence of concomitant CIS on survival outcomes after radical cystectomy (RC) due to bladder cancer (BC) is poor.
- Aim of our study is to evaluate if the presence of concomitant CIS at RC impacts on recurrence and survival outcomes.**

## Results:

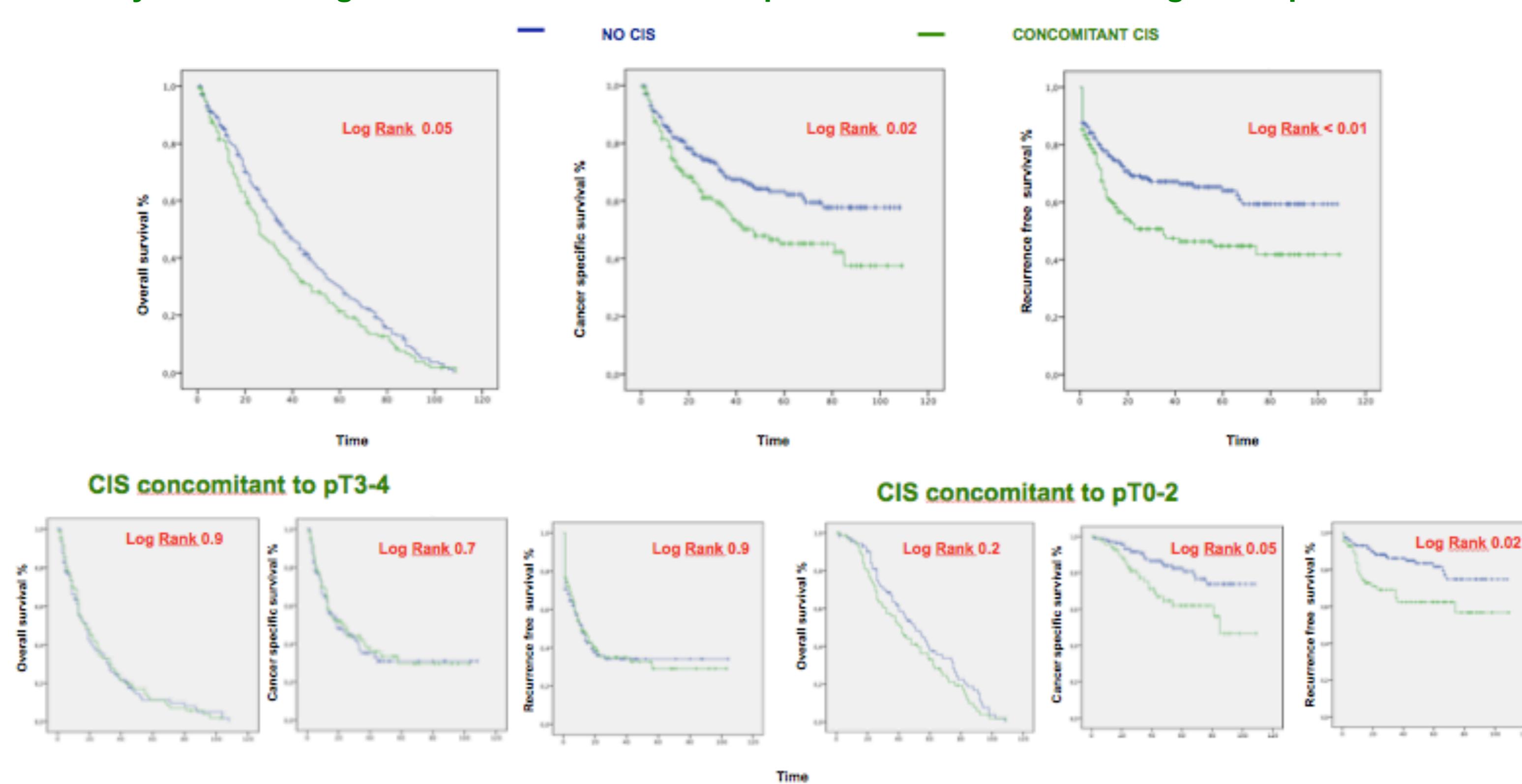
### Descriptive characteristics

Variables	OVERALL (n=391)
Age at surgery, years Median (IQR)	71 (40-90)
Gender, n (%) Male Female	322 (82) 69 (18)
ASA score, n (%) 1 2 3 4	36 (9) 183 (47) 145 (37) 27 (6)
Tumor stage, n (%) 2 3-4	217 (54,5) 174 (44,5)
Margins, n (%) Positive Negative	51 (13) 340 (87)
Pathologic nodal stage, n (%) pN0 pN +	274 (70.1) 117 (29.9)
Number of LN removed, n (%)	23 (10-73)
LVI, n (%) Yes No	35 (9) 356 (91)
Adjuvant chemotherapy, n (%) Yes No	57 (14.6) 334 (85.4)
Adjuvant radiotherapy, n (%) Yes No	25 (6.4) 366 (93.6)
Postoperative follow-up, months Median (IQR)	30 (5-130)

### Univariable and Multivariable Cox Regression predicting CSM, OM and Recurrence

	CANCER SPECIFIC MORTALITY		OVERALL MORTALITY		RECURRENCE	
	Univariable	p-value	Univariable	p-value	Univariable	p-value
Age at surgery	1 (0.99-1.02)	0.7	1.09 (1.07-3.16)	<0.001	1 (0.99-1.02)	0.7
ASA	1.07 (0.91-1.25)	0.4	1.34 (1.22-1.47)	<0.001	1.07 (0.91-1.25)	0.4
Gender	2.5 (0.96-3.67)	0.6	1.22 (0.83-1.79)	0.3	1.5 (0.97-3.67)	0.3
Pathologic tumor stage T2 vs T3-T4	3.7 (2.39-5.73)	<0.001	0.93 (0.63-1.37)	0.7	3.7 (2.39-5.73)	<0.001
Pathologic nodal stage pN0 vs pN+	2.91 (1.79-4.73)	<0.001	1.38 (0.65-2.93)	0.4	2.91 (1.79-4.73)	<0.001
Surgical margins	1.5 (0.93-2.27)	0.1	1.22 (0.93-1.59)	0.3	1.5 (1.07-2.67)	<0.001
LVI	1.07 (1.91-2.25)	<0.001	1.11 (1.09-1.27)	0.3	1.07 (1.91-2.25)	<0.001
Adjuvant Radiotherapy	12.27 (5.90-22.32)	<0.001	1.17 (0.78-1.72)	0.3	11.4 (3.90-21.32)	<0.001
Adjuvant Chemotherapy	10.17 (4.88-21.34)	<0.001	1.14 (1.12-1.47)	0.4	10.6 (4.88-18.34)	<0.001
Concomitant Cis	1,55 (1.05-4.84)	<0.001	1.11 (1.09-1.27)	0.08	1.28 (1.02-3.92)	<0.001
	CANCER SPECIFIC MORTALITY		OVERALL MORTALITY		RECURRENCE	
	Multivariable		Multivariable		Multivariable	
Age at surgery	1 (0.99-1.02)	0.7	1.09 (1.07-1.1)	0.02	1,6 (0.97-1.52)	0.5
ASA	1.07 (0.91-1.25)	0.4	1.34 (1.22-1.47)	<0.001	1.15 (0.61-1.15)	0.4
Gender	1.5 (0.82-3.67)	0.3	1.22 (0.83-1.79)	0.3	1.52 (0.7-1.67)	0.3
Pathologic tumor stage T2 vs T3-T4	3.7 (2.39-5.73)	<0.001	0.93 (0.63-1.37)	0.7	3.7 (2.39-5.73)	<0.001
Pathologic nodal stage pN0 vs pN+	2.91 (1.79-4.73)	<0.001	1.38 (0.65-2.93)	0.4	2.91 (1.79-4.73)	<0.001
Surgical margins	2.5 (0.96-3.67)	0.6	1.22 (0.83-1.79)	0.3	1.5 (0.97-3.67)	0.1
LVI	1.07 (0.91-1.25)	0.4	1.11 (1.09-1.27)	0.3	2.17 (1.41-4.25)	<0.001
Adjuvant Radiotherapy	1.27 (0.90-1.32)	0.07	1.17 (0.78-1.72)	0.3	11.27 (4.90-18.32)	<0.001
Adjuvant Chemotherapy	10.17 (4.88-22.34)	<0.001	1.14 (0.82-1.66)	0.4	14.17 (6.88-24.34)	<0.001
Concomitant Cis	1.27 (0.90-1.32)	0.5	1.17 (0.88-1.52)	0.3	1.37 (0.88-1.34)	0.5
	CANCER SPECIFIC MORTALITY		OVERALL MORTALITY		RECURRENCE	
	Multivariable		Multivariable		Multivariable	
Cis in pT0-2	1.8(1.09-5.02)	0.02	1.09 (0.67-1.1)	0.4	1,6 (0.97-1.52)	0.5
Cis in pT3-4	1.07 (0.91-1.25)	0.4	1.34 (0.62-1.47)	0.3	1.15 (0.61-1.15)	0.4

Kaplan meier analysis assessing survival and recurrence in patients stratified according to the presence of concomitant Carcinoma in Situ



**Conclusions:** CIS is considered a negative prognostic factor at TURB that contributes to cystectomy indication. However concomitant presence of CIS at cystectomy does not increase the risk of recurrence and does not impact on survival outcomes. The most important features to consider in follow-up schedules are pathological stage, lymph node status and lymph vascular invasion.