



DICHIARAZIONE

Relatore: MARCO ORSATTI

Come da nuova regolamentazione della Commissione Nazionale per la Formazione Continua del Ministero della Salute, è richiesta la trasparenza delle fonti di finanziamento e dei rapporti con soggetti portatori di interessi commerciali in campo sanitario.

- Posizione di dipendente in aziende con interessi commerciali in campo sanitario (**NIENTE DA DICHIARARE**)
- Consulenza ad aziende con interessi commerciali in campo sanitario (**NIENTE DA DICHIARARE**)
- Fondi per la ricerca da aziende con interessi commerciali in campo sanitario (**NIENTE DA DICHIARARE**)
- Partecipazione ad Advisory Board (**NIENTE DA DICHIARARE**)
- Titolarietà di brevetti in compartecipazione ad aziende con interessi commerciali in campo sanitario (**NIENTE DA DICHIARARE**)
- Partecipazioni azionarie in aziende con interessi commerciali in campo sanitario (**NIENTE DA DICHIARARE**)

L'approccio Trimodale nella Preservazione d'organo e nella Qualità di Vita

**M.Orsatti
Sanremo**



MODERATORI :

R.SANTONI (ROMA)

V.LORUSSO (BARI)

TRIMODALE

- ✓ Turv radicale (massimale)
- ✓ RT
- ✓ CT

XXV CONGRESSO NAZIONALE
AIRO2015

PALACONGRESSI - Rimini, 7-10 novembre

La preservazione d'organo nel carcinoma vescicale infiltrante

Obiettivi

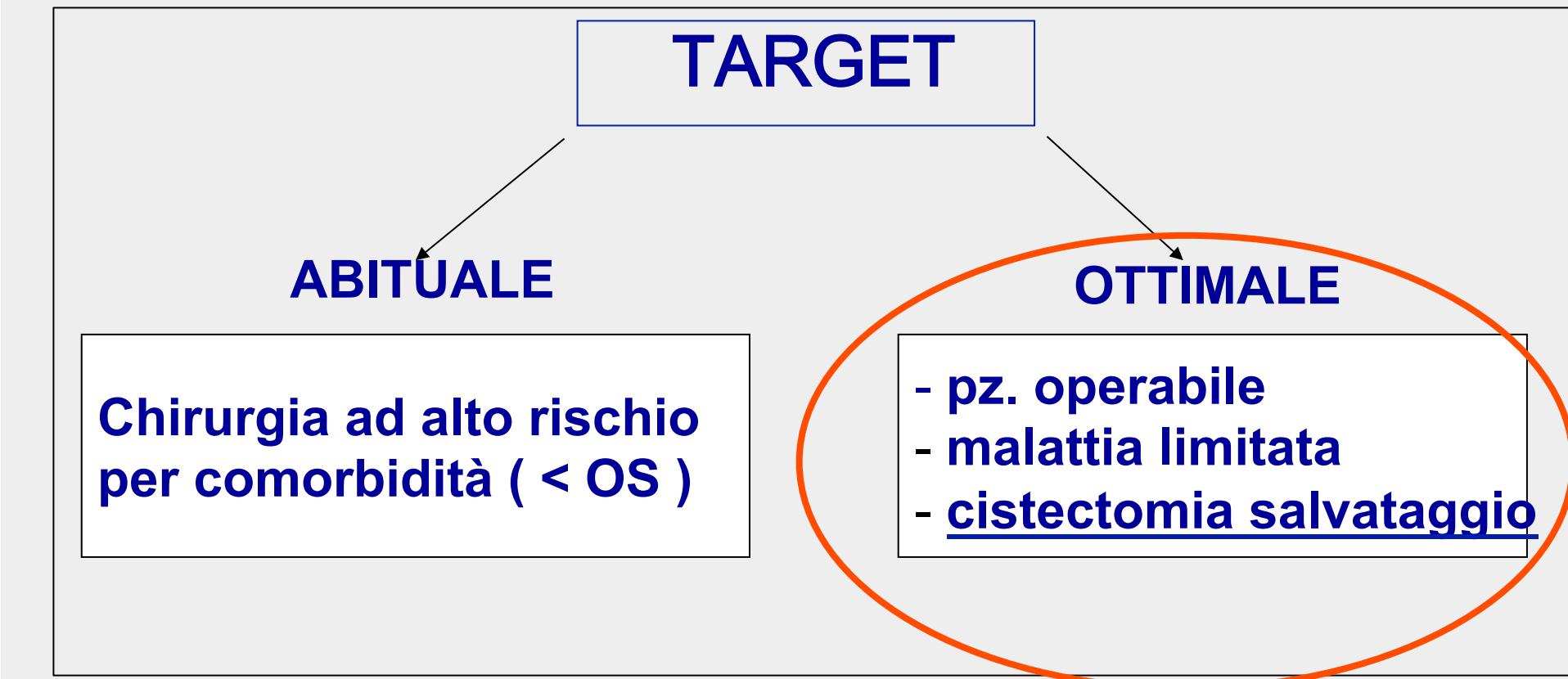
- cura del paziente**
- conservazione vescica funzionante**
(senza compromettere la sopravvivenza)

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AIRO 2015

PALACONGRESI - Rimini, 7-10 novembre

La preservazione d'organo nel carcinoma vescicale infiltrante



SCHEMI DI ASSOCIAZIONE RT/CT

RTOG/MGH

Trifasica (split course)

- induzione (40 Gy pelvi + CDDP)
- Rivalutazione(4-6 settimane!)
- radicalizzazione (chirurgica o 24.8 Gy + CDDP se CR)

RT/CT DEFINITIVA

50- 60 Gy vescica + CT

Fase unica

Studi RTOG: 468 pz.(30 pz./anno)

Studio	Rif.	CT neo/ad	RT(Gy)	CT	N°.pz.	RC(%)	OS(%)	%OS vescica intatta
85-12	Tester IJROBP 1993	-	40+24	CDDP	42	66	52	42
88-02	Tester JCO 1996	Neo MCVx2	39.6+25.	CDDP	91	75	51	44
89-03	Shipley JCO 1998	Neo(R) MCVx2	39.6+25.2	CDDP	123	61(CT) 55	49 48(CT)	40 36(CT)
95-06	Kaufman JCO 2000	-	Ipofr. 24 + 20	CDDP+ FU	34	67	83 (3 aa.)	67 (3 aa.)
97-06	Hagan IJROBP 2003	Adiuv. MCVx3	Iperfr. 40.8+24	CDDP bisett.	52	74	61 (3 aa.)	48 (3 aa.)
99-06	Kaufman Urology 2009	Adiuv. GC x 4	Iperfr. 40.3+24	CDDP + Taxol	80	81	56	47
02-33	Mitin Lancet Onc 2013	Adiuv. GCP x 4	Iperfr. 40.3+24	CDDP+ Tax vs CDDP+FU	97	72 vs 62	71 vs 75	67 Vs 71

Studi RTOG

Studio	Rif.	CT neo/ad	RT(Gy)	CT	N. pz.	RC(%)	OS(%)	%OS vescica intatta
05-24	Michaelson JCO 2014		64.8/36 fx	Paclitax.50 +Trastuzuma b. In HER 2 +	21	69 %	-	-

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PALACONGRESSI - Rimini, 7-10 novembre

Pooled analysis RTOG

- 69% CR dopo induzione
- 80% vescica conservata
- Tox.tardiva > 3: GU 5.7 %
GI 1.9 %

F.UP MEDIANO 7,8 AA.

Pooled analysis RTOG (468 pz.)

Outcomes	5 year	10 year
OS	57 %	37 %
DFS	60 %	47 %
LF infiltranti	13 %	14 %
LF non inf.		36 %
DM	31 %	35 %

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PALACONGRESSI - Rimini, 7-10 novembre

Mak, JCO 2014

Studi RTOG in corso

Studio	RT (Gy)	CT
07-12	Iperfrazionata	CDDP + 5-FU Vs. Gemcitabina bassa dose
RTOG/ NCI	Iperfrazionata	5-FU + Mitomicina C

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RT - CT DEFINITIVA

Autore	N° pz.	RT/CT	% RC	% S	% S vescica conservata
Orsatti(95)	76	50 Gy/ C+FU	81	62	45
Coppin(96)	99	60 Gy/ C	70	47	36
Housset(97)	120	64 Gy/ C+FU	77	63	41
Shipley(02)	190	64.8 Gy/ C	64	54	45
Hussain(04)	41	55Gy/ M+FU	71	36	40
Tirindelli(04)	77	69 Gy(1 Gy x 3)/ C + FU i.c.	90.3	58.5	46.6
Rodel(06)	415	54 Gy/ C+CP +FU	72	51	42
Weiss(07)	112	50-59 Gy/C+FU	88	63	50
Krause(11)	331	54 Gy/ C	78	54	45

	RTOG/MGH (SPLIT COURSE)	RT/CT DEFINITIVA*
% RC	61-87 (70% dopo induzione)	71-91
% S (5 aa.)	49-57	36-74
% S con vescica conservata	38-46	40-67
% vesciche conservate	50-60	70-80
Cistectomie salvataggio	25	19

*Ploussard, Eur Urol 2014



ELSEVIER

Critical Reviews in Oncology/Hematology 94 (2015) 105–115

CRITICAL REVIEWS IN

Oncology
Hematology

Incorporating Geriatric Oncology

www.elsevier.com/locate/critrevonc

A systematic review and meta-analysis of clinical trials of bladder-sparing trimodality treatment for muscle-invasive bladder cancer (MIBC)

Giorgio Arcangeli ^a, Stefano Arcangeli ^b, Lidia Strigari ^{a,*}

^a *Laboratory of Medical Physics and Expert Systems, Regina Elena National Cancer Institute, Rome, Italy*

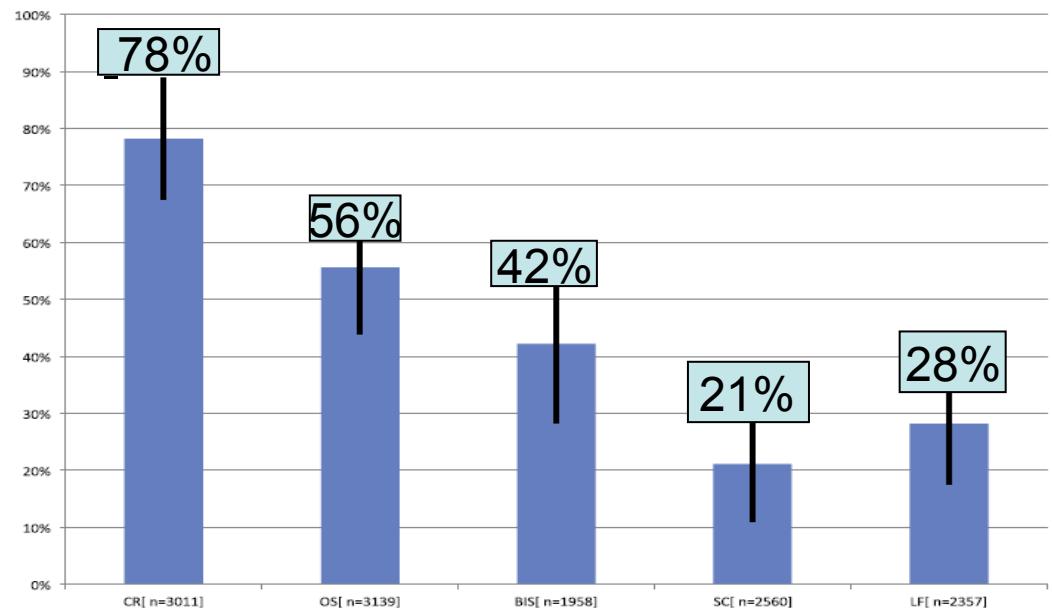
^b *Department of Radiotherapy, Azienda Ospedaliera S. Camillo—Forlanini, Rome, Italy*

Accepted 27 November 2014

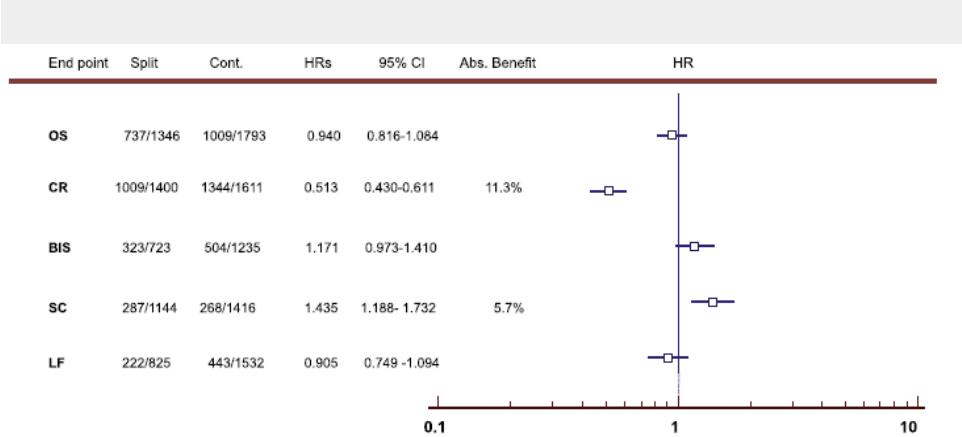
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AIRO2015

PALACONGRESI - Rimini, 7-10 novembre



3315 pts, 31 articoli



Univariate and multivariate analyses for different end-points.

Endpoints	Variables significant to univariate analysis	Variables significant to multivariate analysis
OS		
CR	Continuous course	Continuous course
BIS		
SC	Continuous course	CP-based treatment
LF	Continuous course CP-based treatment	

Chirurgia Vs. RT- CT

CISTECTOMIA	% S (5 aa.)	% S (10 aa.)
Dalbagni(MSKCC) J Urol. 2001	36	27
Stein(USC) JCO 2001	48	32
Grossman NEJM 2003	50	34
Hautman(ULM) J urol 2006	57	45
RT/CT		
Erlangen 2002	45	39
MGH 2012	52	35
RTOG	57	36
Europ ei	63	42

Cystectomy (CYS) or selective bladder preservation (SBP) in MIBC: the SPARE study

Huddart R. Int J Radiat Oncol Biol Phys 2012;84(Suppl 3):S119-20(abs.296)

- » Phase II, feasibility study; pts with T2-3 N0 M0 BCa receiving 3 cycles of neoadjuvant chemotherapy (NAC) and randomised to CYS or SBP (4th cycle NAC + RT)
- » Study was stopped for poor accrual after 30 mo (45 pts included, target 110) → primary endpoint not met
- » Secondary endpoint: adherence to treatment policy → high level of non-adherence: 32%!

79% response rate to NAC

Randomised to:	Response after 3 mo NAC (N=33)		No response after 3 mo NAC (N=9)		Response unknown (N=2)
	Adherence	Non-adherence	Adherence	Non-adherence	
SBP (N=20)	N=10 (SBP)	N=1 (CYS)	N=3 (CYS)	N=6 (SBP)	N=1 (SBP) N=1 (CYS)
CYS (N=25)	N=17 (CYS)	N=5 (SBP)			
(TREATMENT RECEIVED)					



Critical Reviews in Oncology/Hematology xxx (2015) xxx–xxx

CRITICAL REVIEWS IN

*Oncology
Hematology*

Incorporating Geriatric Oncology

www.elsevier.com/locate/critrevonc

Radical cystectomy versus organ-sparing trimodality treatment in muscle-invasive bladder cancer: A systematic review of clinical trials

G. Arcangeli ^a, L. Strigari ^{a,*}, S. Arcangeli ^b

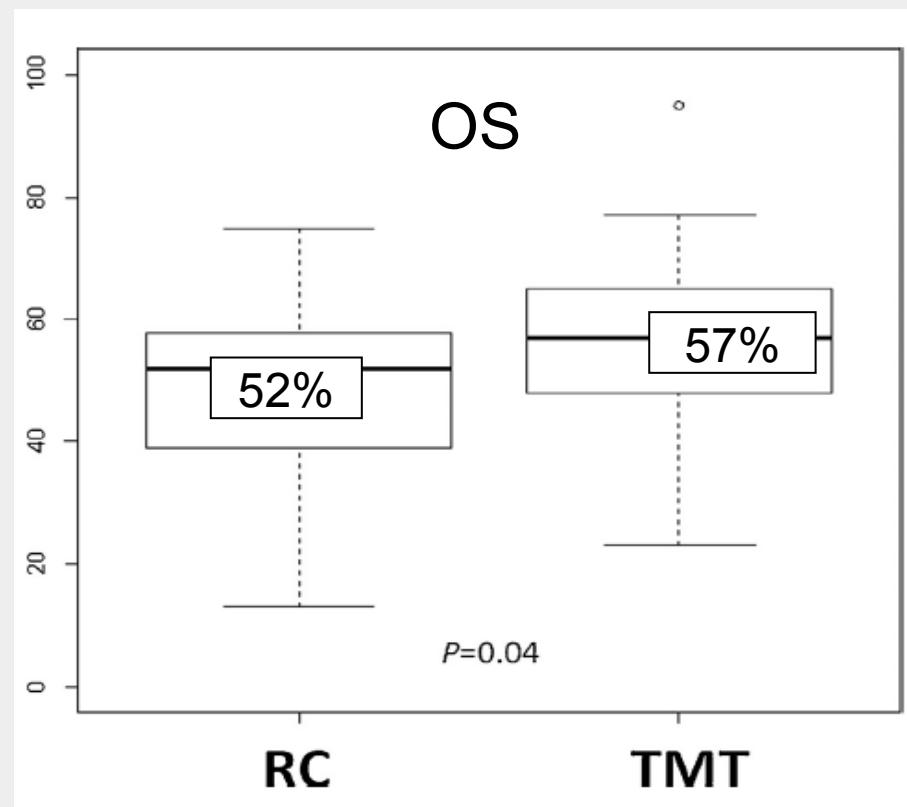
^a *Medical Physics and Expert Systems Laboratory, Regina Elena National Cancer Institute, Via Elio Chianesi 53, 00144 Rome, Italy*

^b *Radiotherapy Department, Azienda Ospedaliera S. Camillo-Forlanini, Rome, Italy*

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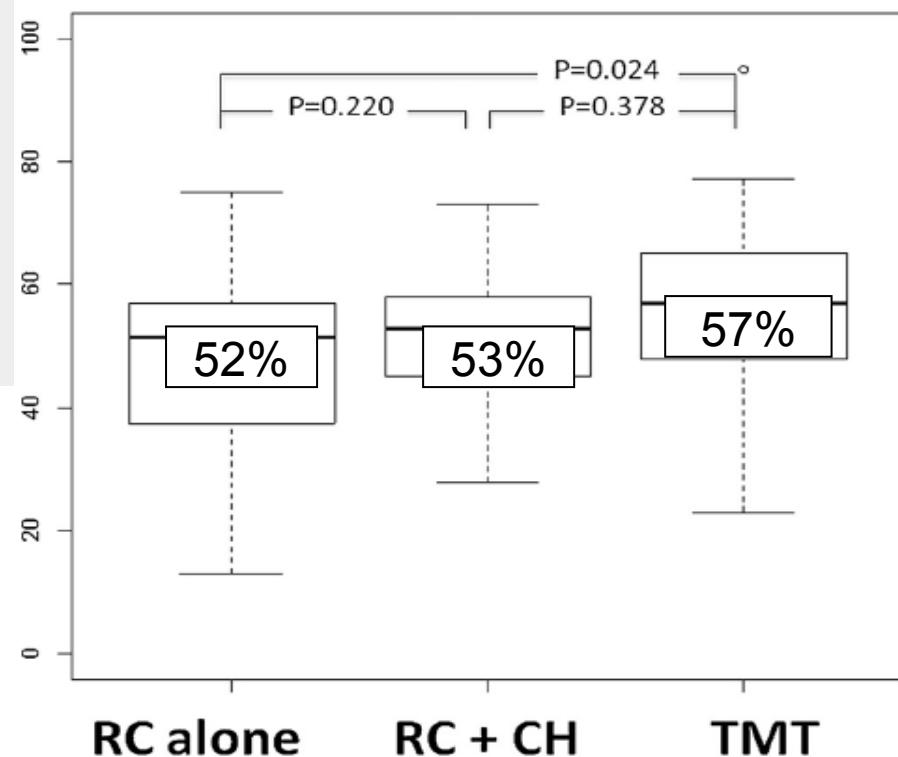
AIRO2015

PALACONGRESSI - Rimini, 7-10 novembre



10.265 pts

3131 pts



Outcomes of Radical Cystectomy in Potential Candidates for Bladder Preservation Therapy

Eugene J. Pietzak, Matthew E. Sterling, Zachary L. Smith, S. Bruce Malkowicz, and Thomas J. Guzzo

157 PZ. SOTTOPOSTI A CISTECTOMIA RADICALE , ELEGIBILI PER TRIMODALE(cT2N0M0)

- 24% con mts linfonodali(16% sopra la biforcazione iliaca)**
- 36% erano pT3 (19%) o pT4(17%)**
- 36% avevano CIS occulto**

Preservazione vescica: controllo locale

TURV esclusiva (Herr 2001, Solsona 2010)	30 %
TURV + CT (Sternberg 2003, Herr 2008)	33-56 %
RT esclusiva (Pollack 1994, Rodel 2002)	30-40 %
TURV + RT + CT	64-87 %

Recidive Trimodale

	LR	DM
T2	3-4 %	10-27 %
T3-T4	11-16 %	39-50 %

Hautmann, J Urol 2006
James, NEJM 2012

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CT Neoadiuvante

STUDIO	N° pz.	CT NEO	TERAPIA	RISULTATI
Nordic Trial Coppin JCO 1996	325	AC x 2	RT	T1-2 : N.S. T3-4 : + 15% OS
EORTC/MRC Lancet 1999 JCO 2011	976	MCV x 3	RT o CHIR.	36% Vs. 30 % OS 27 % Vs. 20 % DFS (10 aa.)
Danish Trial Sengelov Acta Oncol. 2002	120	MC x 3	RT	Negativo(- 5.6% OS)
RTOG 89-03 Efstathiou Eur.Urol.2012	151	MCV x 2	RT + CDDP	N.S. (50% Vs. 49 %)
Huddart BJC 2015	94	MVAC x3	RT+ CDDP/FU in CR(88%)	> OS in CR(69% vs 52%)

TRIMODALE

RADIOSENSIBILIZZANTI

RT + Gemcitabina

Autore	N.pz.	RT(Gy)	Gem. (mg/mq)	% RC	% OS	% S con vescica conservata
Kent JCO 2004	24	60	10-33 2/Sett. (racc. 27)	91	78	65
K.S.Oh IJROBP 2009	24	60	10-33 2/sett. (MTD 27)	86	76	62
Caffo Cancer 2011	25	54	200-500 (racc. 400) 1/Sett. +CDDP 100	100	70	73.8
Borut R&O 2012	33	60	75 sett.	80	64	NR
RTOG 0712	IN COR SO					

RT + Paclitaxel

Autore	N.pz	RT(Gy)	Dose (mg/mq)	% RC	% S	% S con vescica conservata
Nichols Int.Journ. Canc. 2000	8	60	150 sett.+ Carboplatino	100	57 (2 anni)	-
Muller S&O 2007	39	56	20-35 bisett.	65	40 (3 anni)	-
RTOG 99-06 Kaufman Urol.2009	80	64.3 Iperfr.	50 sett + CDDP 20 + CT ad.	81	69 (2 anni)	-
Abdel- Wahab Asco 2013	30	64	60 sett. + CDDP 20	90	-	-

RT Vs RT + 5FU/MITOMICINA C

N° pz.	RT (Gy)	5 FU mg/mq	MIT.C mg/mq	% DFS	% OS
360	55/64	500	12	54 RT 65 CRT	35 RT 48 CRT

- 50% REC.
INFILTRANTI

BC 2001, James NEJM 2012

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Radiosensibilizzazione

Terapia	% RC	% OS	% OS con vescica conservata
RT	57	47	30
RT + CDDP	85	62	40
RT + CDDP +/- FU	87	65	45
RT + Paclitaxel	84	79 (2 anni)	69 (2 anni)
RT + Gemcitabina	86	76	43
RT + FU/Mit. C		48	

Adult Urology

Oncology: Adrenal/Renal/Upper Tract/Bladder

Combining Mitomycin C and Regional 70 MHz Hyperthermia in Patients with Nonmuscle Invasive Bladder Cancer: A Pilot Study

Elisabeth D. Geijsen,* Theo M. de Reijke, Caro C. Koning,
Paul J. Zum Vörde Sive Vörding, Jean J. de la Rosette,† Coen R. Rasch,
Rob M. van Os and Johannes Crezee

From the Departments of Radiation Oncology and Urology (TMdR, JJdlR), Academic Medical Center, Amsterdam, The Netherlands

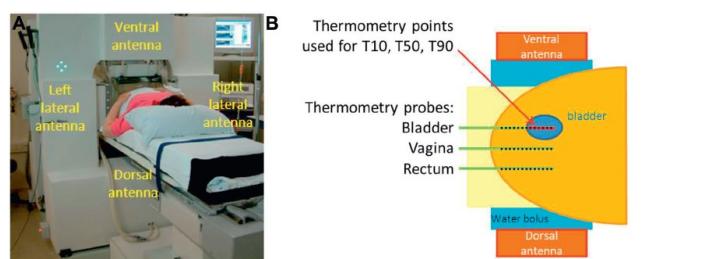


Figure 1. Locoregional 70 MHz hyperthermia using 4-phase array system. A, treatment setup during clinical use. B, schematic of thermometry.

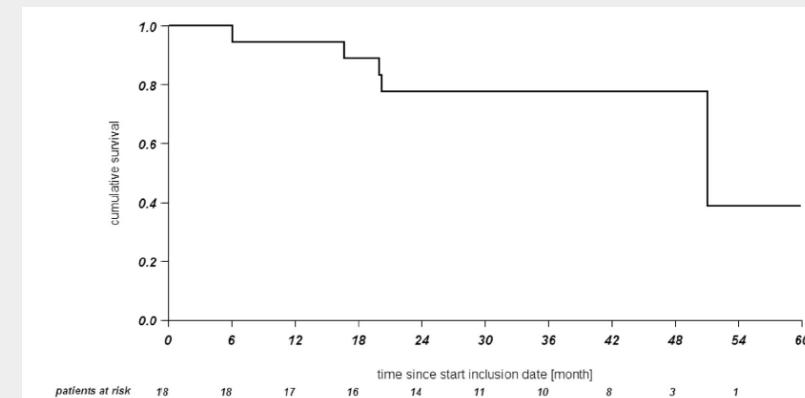


Figure 3. Recurrence-free survival

FATTORI PROGNOSTICI TRIMODALE

Risposta Completa (dopo induzione o definitiva)

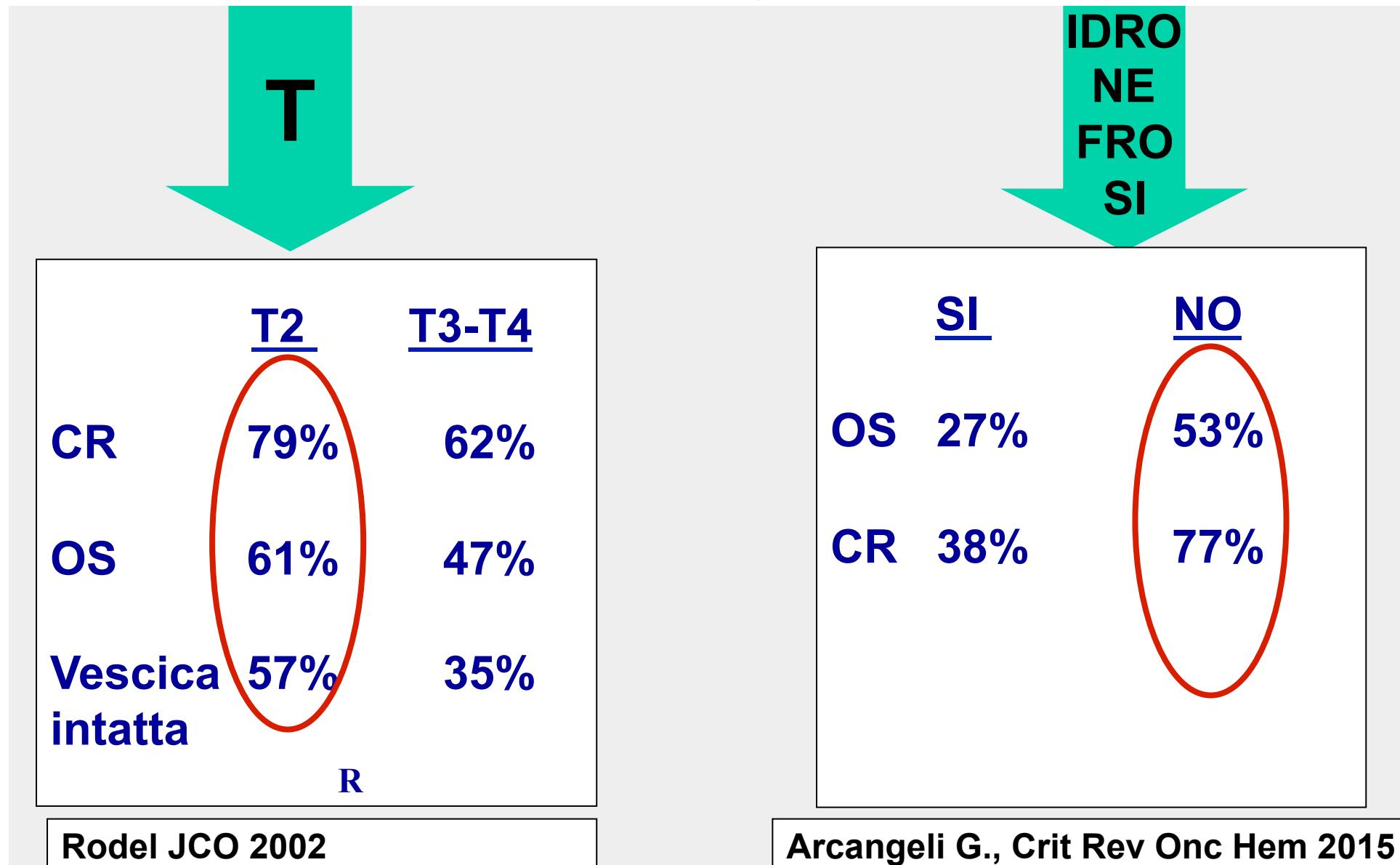
Tumore non visibile alla cistoscopia

Biopsie negative(pT0-pTis-pTa)

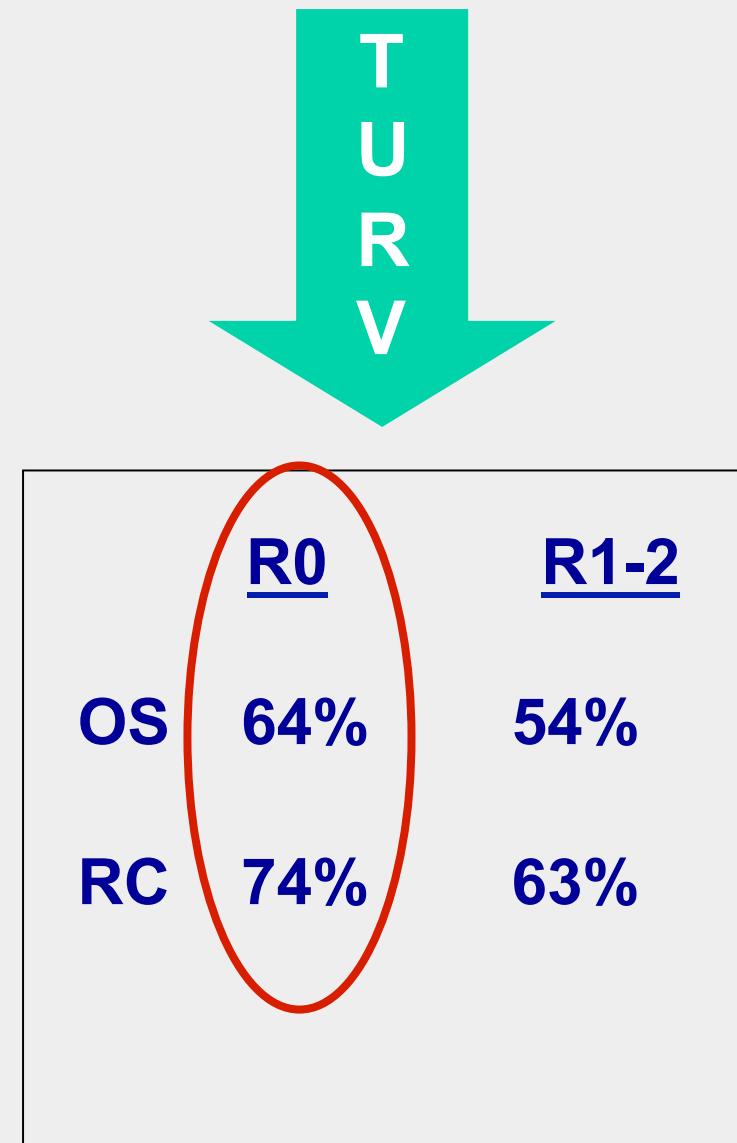
Citologico urine negativo

70 % dei pz.

FATTORI PROGNOSTICI PER CR



FATTORI PROGNOSTICI PER CR



**Rodel JCO 2002
Efstathiou Eur Urol 2012
Mak JCO 2014**

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TURV Radicale

TURV

**CISTECTOMIA
SALVATAGGIO**

RADICALE

22 %

INCOMPLETA

42 %

Efstathiou Eur Urol 2012, Mitin, Curr Urol Rep 2013

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PALACONGRESSI - Rimini, 7-10 novembre

Prognostic factors in MIBC pts who received RT ± chemotherapy: results from the BC2001 trial

Huddart R. Eur J Cancer 2015;51(S3):S475-6(abs.2507)

- » Multivariable analysis: factors associated with OS

Factor	HR	95% CI	P
Residual mass after resection (yes vs no)	2.09	1.55-2.82	<0.0001
WHO performance status (1-2 vs 0)	1.79	1.32-2.41	<0.0001
Age	1.02	1.00-1.04	0.02

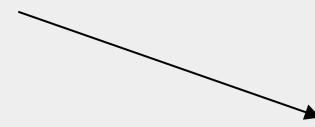
- » Presence of residual mass highly correlated with extent of resection (report urologist performing TURBT)
 - » 96% complete resections without residual mass
 - » 66% incomplete resections with residual mass

Residual mass after resection seems the main prognostic factor for local control and OS in MIBC pts who received RT ± chemotherapy

Data from oral presentation

FATTORI PROGNOSTICI PER CR

✓ Multifocalità



< CR

✓ CIS diffuso



> Recidive

✓ N +



Fattori Prognostici

Erb-2 (Her-2) positivo (50%)

- ✓ < risposta completa (50% Vs. 81%)
- ✓ Attivazione Her-2 = effetto anti-apoptosi =
radioresistenza (Chakravarti, IJROBP 2005)
- ✓ Associazione con anticorpi monoclonali
anti-Her-2 ?(Trastuzumab)

Associazione RT/CT: considerazioni finali

**“ Organ preservation is not
for every patients, but for
those who are most likely
to benefit from this
approach“**

Mary Gospodarowicz, JCO 2002

Associazione RT/CT: “ Miglior candidato “

- ✓ Stadio T1(G3)-T2 solitario, N0
- ✓ Turv iniziale completa
- ✓ Assenza di CIS e/o multifocalità
- ✓ Assenza di idronefrosi
- ✓ Erb2 negativi

**20 % dei
pazienti**

Trimodality Therapy in Bladder Cancer

Who, What, and When?



Christopher Premo, MD^a, Andrea B. Apolo, MD^b,
Piyush K. Agarwal, MD^c, Deborah E. Citrin, MD^{a,*}

Patient selection for bladder preservation

Preferred or Ideal	Less than Ideal	Relative Contraindications	Absolute Contraindications
T2 No hydronephrosis No CIS Visibly complete TURBT Unifocal tumor Good bladder function and capacity	T3a Incomplete TURBT Multifocal tumor Poor bladder function or capacity	T3b-T4a Diffuse CIS Lymph node positive disease	T4b Tumor-Related Hydronephrosis Prior pelvic radiation therapy Not a candidate for chemotherapy Prostatic stromal invasion

Associazione RT/CT: “ Miglior risultato ”

Turv radicale

RT + CT (CDDP+/- 5FU , 5FU/MIT.C, GEM Low dose)

RC

Stretto F. UP

RP/Recidiva

Cistectomia +/- CT adiuvante

Associazione RT/CT Cistectomia di salvataggio

20-30 %

**Persistenza di
malattia**

20-30 %

**Recidive
(7-45 mesi)**

50 % Ca. superficiali

→ **Turv +/- CT e.v.**

50% Ca. infiltranti

→ **Cistectomia di
salvataggio**

Cistectomia di salvataggio

“ Potenzialmente curativa”

50% DFS a 5 anni (44% a 10 anni)

45 % OS a 5 anni

Rodel 2002, Shipley 2008, Sapre 2012

	CISTECTOMIA IMMEDIATA	CISTECTOMIA SALVATAGGIO
OS	45 %	42 %
DFS	51 %	50 %

Addla, J Urol 2009; Spre, J urol 2012

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Morbidità Chirurgia

	CISTECTOMIA Aghazadeh J Urol.2011	CISTECTOMIA SALVATAGGIO Eswara Jr.J Urol 2012 Pietzak EJ Urol 2015
DEGENZA	7-14 GIORNI	
COMPLICANZE NEI 90 GIORNI	27 %	31 %
MORTALITA'	2-6 %	2 %

Cistectomia di salvataggio

MA.....

DIFFICILMENTE NEOVESCICA ORTOTOPICA

DIFFICILMENTE NERVE SPARING



INFORMARE IL PZ.....

Trimodale: Qualità di vita

Rif.	N.pz.	RT/CT	% Funz. vescicale buona	% Tox 3+	% Funz. Sessuale buona	FU mediano
Fokdal R&O 04	261	RT	86	-	75	29 mesi
Zietman J Urol 03	71	64.8 Gy/C	78	8	50	6 anni
Rodel Astro 05	104	54 Gy/C-CP-F	70	2	-	42 mesi
Efstathiou JCO 12	157	RTOG 8903-9506-970 6-9906	-	7	-	5.4 anni
BC2001 Astro 08	352	RT vs. RT/F-MIT.C	-	3 Vs. 9	-	6 mesi
James NEJM 12	360	64 Gy/ F-MIT.C	-	7	-	36 mesi

ICUD-EAU International Consultation on Bladder Cancer 2012: Radical Cystectomy and Bladder Preservation for Muscle-Invasive Urothelial Carcinoma of the Bladder

Georgios Gakis ^{a,*}, Jason Efstathiou ^b, Seth P. Lerner ^c, Michael S. Cookson ^d,
Kirk A. Keegan ^d, Khurshid A. Guru ^e, William U. Shipley ^b, Axel Heidenreich ^f,
Mark P. Schoenberg ^g, Arthur I. Sagalowsky ^h, Mark S. Soloway ⁱ, Arnulf Stenzl ^a

Table 8 – Recommendations for radiation-based bladder-preserving strategies

Treatment/comparison	Evidence	Level of evidence	Grade
Chemoradiotherapy vs RT alone	Two RCTs report significant improvement in bladder tumor eradication.	1b	A
Chemoradiotherapy preserves good bladder function	Three QOL studies and RTOG protocols report good tolerance.	2a	B
Complete TURBT with chemoradiotherapy	Three reports (one phase 3, two phase 2) show benefit.	2a	B
<u>Trimodality therapy vs immediate cystectomy</u>	Comparison of three contemporary series of each treatment report similar 5- and 10-yr survival.	3	C

RT = radiation therapy; RCT = randomized controlled trial; QOL = quality of life; RTOG = Radiation Therapy Oncology Group; TURBT = transurethral resection of bladder tumor.

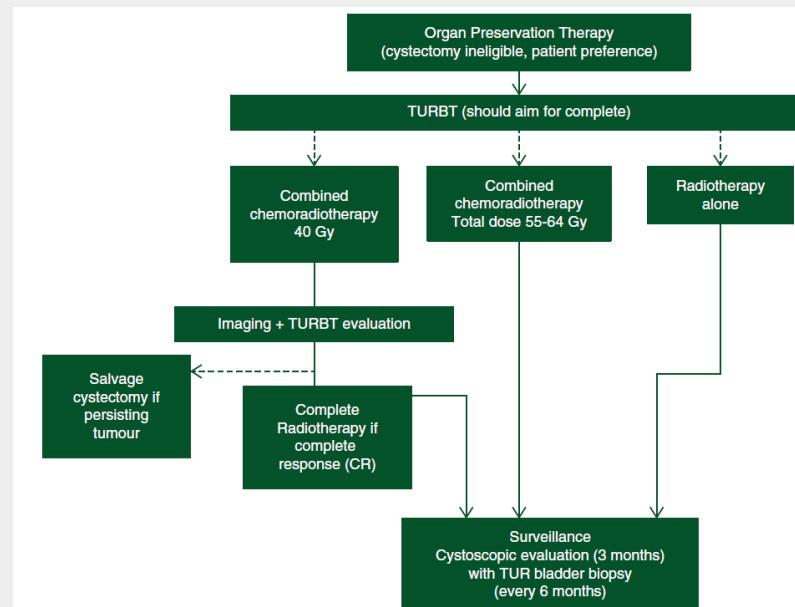
Bladder cancer: ESMO Practice Guidelines for diagnosis, treatment and follow-up[†]

J. Bellmunt^{1,2}, A. Orsola³, J. J. Leow^{1,2}, T. Wiegel⁴, M. De Santis⁵ & A. Horwich⁶ on behalf of the ESMO Guidelines Working Group*

¹Department of Medical Oncology, University Hospital del Mar-IMIM, Barcelona, Spain; ²Bladder Cancer Center, Dana-Farber Cancer Institute/Brigham and Women's Cancer Center, Boston, USA; ³Department of Urology, Vall d'Hebron University Hospital, Barcelona, Spain; ⁴Department of Radio Oncology, University Hospital Ulm, Ulm, Germany; ⁵Ludwig Boltzmann Institute for Applied Cancer Research, Kaiser Franz Josef Spital, Vienna, Austria; ⁶Institute of Cancer Research and Royal Marsden Hospital, Sutton, UK

organ preservation therapy

The approach of organ preservation therapy for MIBC is a reasonable option for patients seeking an alternative to cystectomy and a palliative option for those who are medically unfit for surgery [III, B]. Contemporary protocols utilise aggressive endoscopic TURBT alone, TURBT plus radiotherapy, TURBT plus chemotherapy or—as the preferred treatment—a tri-modality combination of TURBT plus radiotherapy and chemotherapy.





Bladder cancer: diagnosis and management

NICE guideline

Published: 25 February 2015

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PALACONGRESI - Rimini, 7-10 novembre

Radical therapy for muscle-invasive urothelial bladder cancer

- Offer a choice of radical cystectomy or radiotherapy with a radiosensitiser to people with muscle-invasive urothelial bladder cancer for whom radical therapy is suitable. Ensure that the choice is based on a full discussion between the person and a urologist who performs radical cystectomy, a clinical oncologist and a clinical nurse specialist. Include in the discussion:
 - the prognosis with or without treatment
 - the limited evidence about whether surgery or radiotherapy with a radiosensitiser is the most effective cancer treatment
 - the benefits and risks of surgery and radiotherapy with a radiosensitiser, including the impact on sexual and bowel function and the risk of death as a result of the treatment.



Linee guida

CARCINOMA DELLA VESCICA

Edizione 2014

Coordinatore: Cora N. Sternberg

Segretario Scientifico: Fabio Calabrò

Estensori:

Stefano Arcangeli

Giulia Baciarello

Michele Gallucci

Federica Recine

Giuseppe Simone

Referee AIOM Vito Lorusso

Referee SIURO Alessandro Bertaccini

Referee AIRO Marco Orsatti

Referee SIU Vincenzo Serretta

Qualità dell'evidenza SIGN	Raccomandazione clinica	Forza della raccomandazione clinica
D	I pazienti non candidati a cistectomia radicale o che rifiutano il trattamento chirurgico, con neoplasia singola, assenza di idronefrosi e sottoposti TUR completa della neoplasia, possono essere trattati con radio-chemioterapia concomitante	Positiva debole
A	I pazienti non candidati a cistectomia radicale né a trattamento con cisplatino o che rifiutano il trattamento chirurgico, con neoplasia singola, assenza di idronefrosi e sottoposti TUR completa della neoplasia, possono essere trattati con radio-chemioterapia concomitante con schemi senza cisplatino	Positiva debole



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E D I T O R I A L

Organ-Sparing Multimodality Treatment for Muscle-Invasive Bladder Cancer: Can We Continue to Ignore the Evidence?

Claus Rödel and Christian Weiss, Goethe-University Frankfurt am Main, Frankfurt am Main, Germany

See accompanying article on page 3801

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Platinum Priority – Editorial

Referring to the article published on pp. 823–829 of this issue

Radical Locoregional Therapy for Bladder Cancer: Underutilized, or Unsuitable in Many?

Peter C. Black *

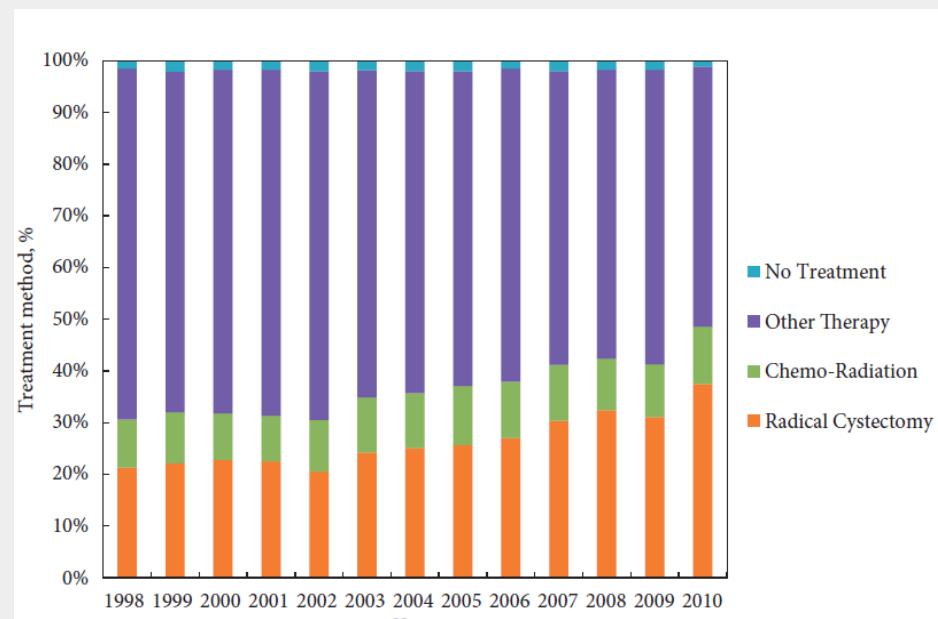
Department of Urologic Sciences, University of British Columbia, Vancouver, BC, Canada

Muscle-invasive bladder cancer: evaluating treatment and survival in the National Cancer Data Base

Angela B. Smith*†, Allison M. Deal†‡, Michael E. Woods*†, Eric M. Wallen*†,
Raj S. Pruthi*†, Ronald C. Chen†§, Matthew I. Milowsky†¶ and Matthew E. Nielsen*†¶**

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months). When controlling for multiple covariates, the OS for cystectomy was similar to that for chemo-radiation (hazard ratio [HR] 1.05, 95% confidence interval [CI] 0.98, 1.12), but superior to other therapy (HR 1.42; 95% CI 1.35, 1.48), and no treatment (HR 2.40; 95% CI 2.12, 2.72). The OS time for chemo-radiation was superior to other therapy and no treatment.



Urinary bladder preservation for muscle-invasive bladder cancer: a survey among radiation oncologists of Lombardy, Italy

Barbara Alicja Jereczek-Fossa^{1,2}, Renzo Colombo³, Tiziana Magnani⁴, Cristiana Fodor¹, Marianna Alessandra Gerardi^{1,2}, Paolo Antognoni⁵, Lucia Barsacchi⁶, Nice Bedini⁴, Stefano Bracelli⁷, Alberto Buffoli⁸, Emanuela Cagna⁶, Gianpiero Catalano⁹, Stefania Gottardo^{2,5}, Corrado Italia¹⁰, Giovanni Battista Ivaldi¹¹, Stefano Masciullo¹⁰, Anna Merlotti⁷, Enrico Sarti¹², Marta Scorsetti¹³, Flavia Serafini⁶, Mariasole Toninelli⁸, Elisabetta Vitali¹², Riccardo Valdagni⁴, Elisa Villa¹³, Dario Zerini¹, Ottavio De Cobelli^{1,2}, Roberto Orecchia^{1,2,14}; on behalf of the Lombardy Oncological Network (Rete Oncologica Lombarda, ROL) and the Lombardy Section of the Italian Society of Oncological Radiotherapy (Associazione Italiana di Radioterapia Oncologica-Lombardia, AIRO-L)

Results: Thirteen centers (41%) answered the survey; the presented data come from 11 active centers. In these centers, 11,748 patients were treated with external-beam radiotherapy in 2012, 100 of whom having bladder cancer (0.9%). 74/100 patients received radiotherapy as palliative treatment for T, N or M lesions. A further 9 and 5 patients received radiotherapy for oligometastatic disease (ablative doses to small volumes) and postoperatively, respectively. Bladder preservation was performed in 12 cases and included trimodality and other strategies (mainly TURBT followed by radiotherapy). A multidisciplinary urology tumor board met regularly in 5 of 11 centers. All responders declared their interest in the Lombardy multicenter collaboration on bladder preservation.

Conclusions: Our survey showed that bladder preservation is rarely used in Lombardy despite the availability of the latest radiotherapy technologies and the presence of an urology tumor board in half of the centers. The initiative of multicenter and multidisciplinary collaboration was undertaken to prepare the platform for bladder preservation as a treatment option in selected patients.

Pazienti in Trimodale

UK	60 %
USA	10 %
ITALIA*	1 %

Munro, IJROBP 2010

*Dati AIRO 2014

Gruppo Multidisciplinare

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