



Poggio Rusco
(MN)

17 marzo 2018

Con il Patrocinio
Ordine dei Medici di Mantova

Sistema Socio Sanitario



ATS Val Padana

AGGIORNAMENTI IN UROLOGIA:
SPECIALISTI E MMG A CONFRONTO

**LE NEOPLASIE UROTELIALI:
terapia chirurgica ma non solo**

UROTELIOMI: *FACTS!*

- ❖ Ca vescicale (BC):
 - 9° per frequenza
 - 4° per *cancer death*
 - 70-75% NON MIOINVASIVO alla diagnosi

- ❖ Ca uroteliale dell' alta via escrettrice (UTUC):
 - 5-8% di tutti i TCC
 - 5% di tutti i tumori renali
 - > 90% di tutti i tumori dell' alta via escrettrice
 - 2-5% ricorrerà controlateralmente nel tempo

UROTELIOMI: *FACTS!*

❖ BC → UTUC

- 2-4 %

❖ UTUC → BC

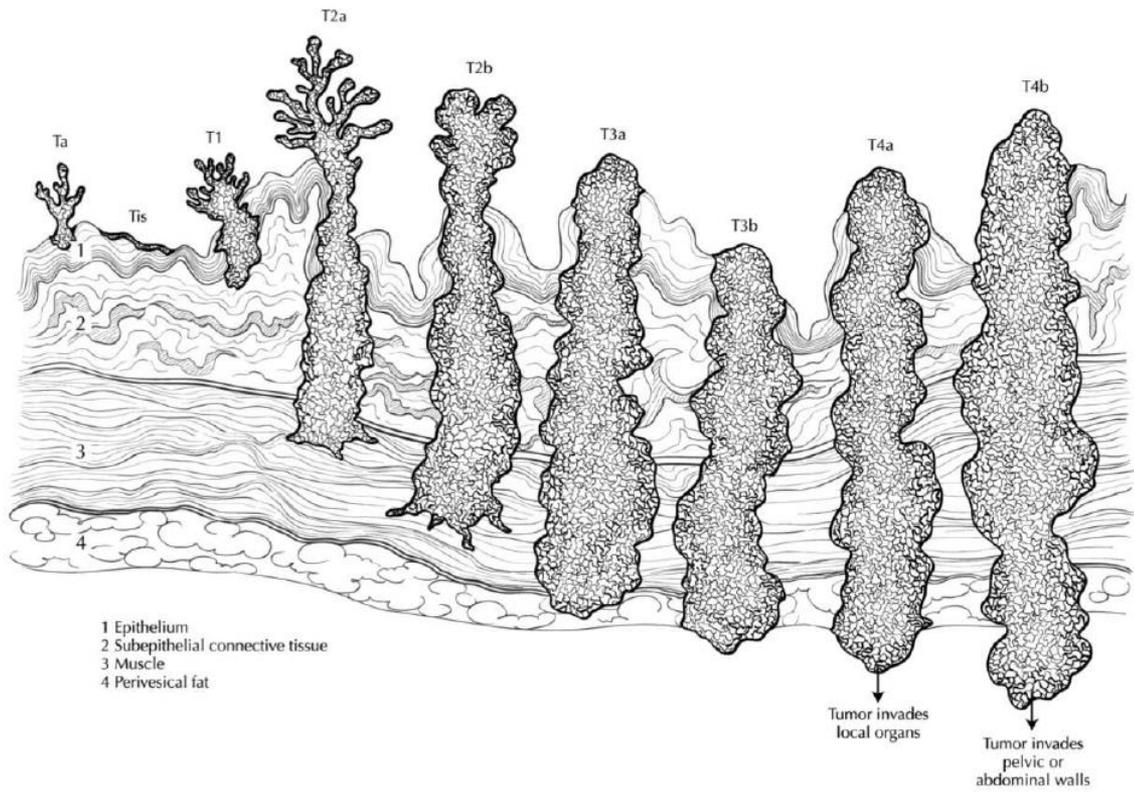
- 50 %

❖ UTUC M+ alla diagnosi

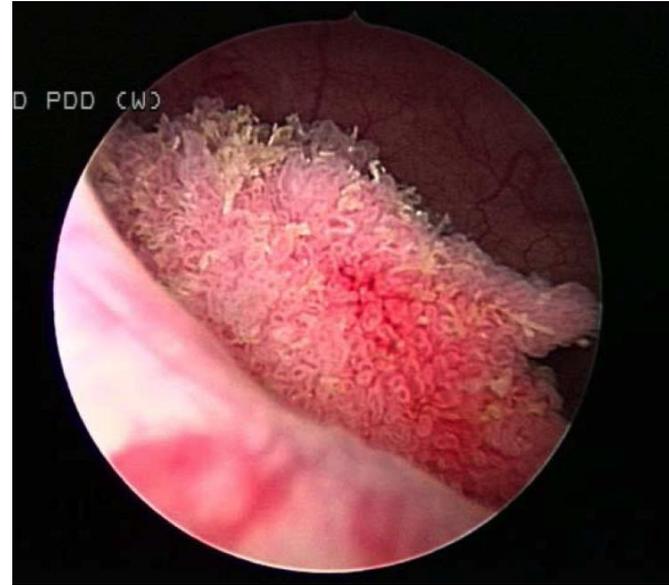
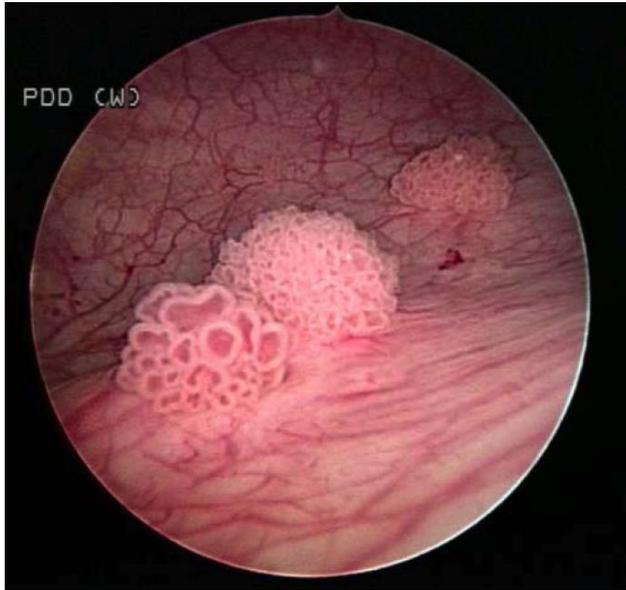
- 19 %

CARCINOMA VESCICALE

- 1. Non-mioinvasivo**
- 2. Mioinvasivo**



NON-MIOINVASIVO



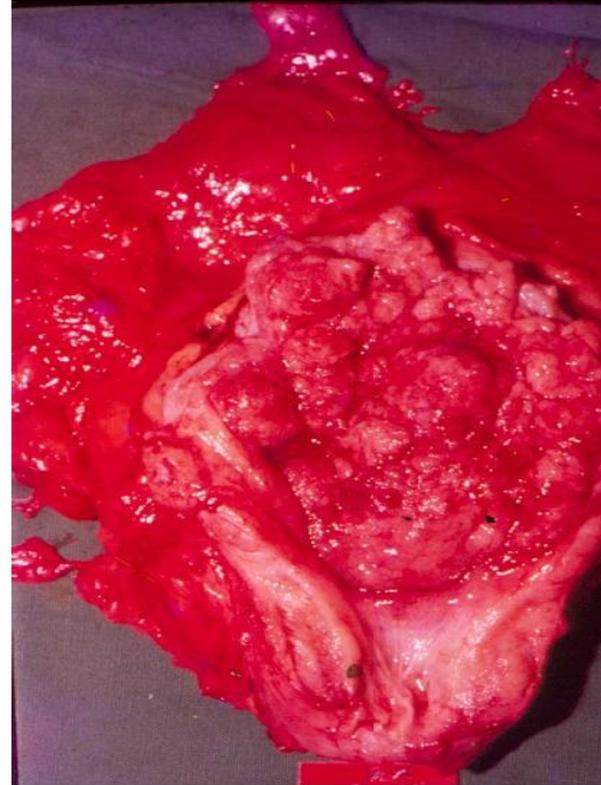
Non Muscle-Invasive Bladder Cancer

- alla presentazione → 70-80 % NMIBC ¹
- probabilità (a 5 anni) di:
 - recidiva: 31 - 78 %
 - progressione: <1 - 45 % ²

1. Oosterlinck W et al., *Eur Urol* 2002; 41:105

2. Sylvester RJ et al., *Eur Urol* 2006; 49: 466

MIOINVASIVO



Muscle-Invasive Bladder Cancer

- TCC-B
 - 20 % MIBC *ab initio*
 - 10-30 % dei NMIBC progredisce dopo terapia iniziale_{1, 2}
- MAX nel ♂: 78.8 – 82.7 %³⁻⁷
- età media: ~ 66 anni³⁻⁷
- MIBC non trattato: 15 % sopravvivenza a due anni⁸

1. Pashos CL et al., *Cancer Pract* 2002; 10: 311

2. American Cancer Society. *Cancer facts & figures 2003*. Atlanta, GA: American Cancer Society, 2003

3. Stein JP et al., *JCO* 2001; 3: 666

4. Madersbacher S et al., *JCO* 2003; 4: 690

5. Shariat SF et al., *J Urol* 2006; 176: 2414

6. Karakiewicz PI et al., *Eur Urol* 2006; 50: 1254

7. Hautmann RE et al., *J Urol* 2006; 176: 486

8. Prout G and Marshall VF. *Cancer* 1956; 9: 551

Recidiva

- Numero di lesioni alla diagnosi ^{1,2}
- Recurrence rate precedente
(*max a 3 mesi*) ^{1,2}
- Dimensioni della neoplasia ^{1,2}
- Grado ¹

1. Oosterlinck w et al, GUIDELINES ON BLADDER CANCER
Eur Urol 2002; 41: 105

2. Sylvester RJ et al., *Eur Urol* 2006; 49: 466

Progressione

- Grado ^{1,2}
- Stadio ^{1,2}
- (*Cis associato*) ²

... altri fattori

- Profondità di invasione
- Cistoscopia a 3 mesi
- Tecnica endoscopica
- Modalità di trattamento
 - *tratt.to endocavitario*
 - *re-TUR*

CLASSI di RISCHIO

BASSO RISCHIO	Singolo – primitivo – Ta – basso grado - ≤ 3 cm
INTERMEDIO RISCHIO	Multiplo o recidivo – basso grado - > 3 cm
ALTO RISCHIO	T1 – alto grado - Cis

CLASSI di RISCHIO

Risk group	5-year recurrence	5-year progression
Low	31%	0.8%
Intermediate	46-62%	6-7%
High	78%	45%

CLASSI di RISCHIO

GESTIONE

BASSO RISCHIO	◆ Follow Up
INTERMEDIO RISCHIO	◆ CHT → MMC ◆ se recidivo dopo CHT ma non alto rischio → BCG
ALTO RISCHIO	◆ BCG

CLASSI di RISCHIO

FOLLOW UP

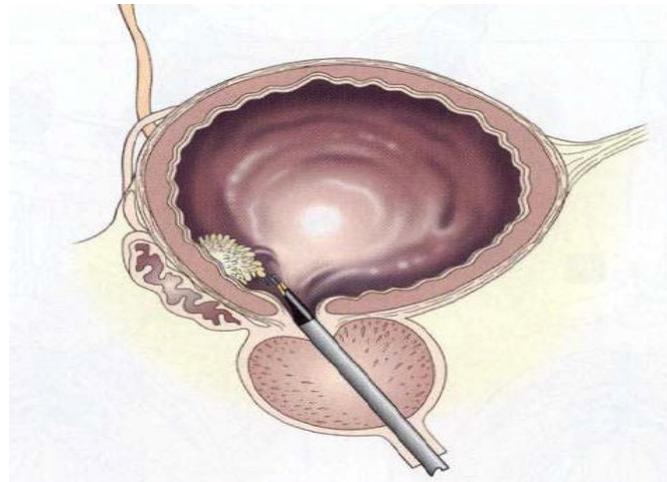
BASSO RISCHIO	<ul style="list-style-type: none">◆ Cistoscopia:<ul style="list-style-type: none">➤ a 3 mesi➤ a 9 mesi➤ annuale (<i>per almeno 5 anni</i>)◆ Monitoraggio alta via escrettrice (AVE): non indicato necessariamente
INTERMEDIO RISCHIO	<ul style="list-style-type: none">◆ Cistoscopia + Citologia<ul style="list-style-type: none">➤ a 3 mesi➤ ogni 6 mesi fino al V° anno➤ ogni 12 mesi in seguito◆ AVE: controllo annuale (TC vs ECO)
ALTO RISCHIO	<ul style="list-style-type: none">◆ Cistoscopia + Citologia<ul style="list-style-type: none">➤ a 3 mesi➤ ogni 3 mesi nel I°-II° anno➤ ogni 4 mesi nel III° anno➤ ogni 6 mesi nel IV°- V° anno

Le nostre armi...

- ◆ **chirurgia (TURBT)**
- ◆ **terapie endocavitarie**
 - chemioterapia
 - immunoterapia

T.U.R.B.T.

procedura terapeutica e stadiante



Tecnica endoscopica: “surgeon skills”

European
Urology

European Urology 41 (2002) 523–531

Variability in the Recurrence Rate at First Follow-up Cystoscopy after TUR in Stage Ta T1 Transitional Cell Carcinoma of the Bladder: A Combined Analysis of Seven EORTC Studies

Maurizio Brausi^a, Laurence Collette^b, Karlheinz Kurth^c, Adrian P. van der Meijden^d, Wim Oosterlinck^e, J.A. Witjes^f, Donald Newling^g, Christian Bouffieux^h, Richard J. Sylvester^{b,*}
EORTC Genito-Urinary Tract Cancer Collaborative Group.

Recidiva a 3 mesi:

- tumore singolo: **3** - 20 % *no adj. tr.* / 0-15 % *adj. tr.*
- multiplo (+ adj. tr.): 7 - **46** %

QUALITA' DELLA T.U.R. !!!

re-TUR

- **T1 G3**
 - **TUR: 50 - 80 %** recidiva; **25 - 65 %** progressione
 - **TUR + BCG: 23 - 74 %** rec.; **4 - 52 %** prog.¹
- **sottostadiazione della prima TUR**
 - **NO** t. mm. **48 %**
 - **SI** t. mm. **14 %**²
 - errori di refertazione istopatologica: **3.4 %**³

1. *Barmoshe S and Zlotta AR, Eur Urol 2004; 3: 73*

2. *Herr HW, Urol Oncol 1996; 2: 92*

3. *Ramsay AD. Errors in histopathology reporting: detection and avoidance Histopathology 1999;34:481-490*

re-TUR: indicazioni

Guideline body	Recommendation on suitable reTUR candidates	Level of evidence given	Major differences
EAU (European Association of Urology)	<ol style="list-style-type: none"> 1. Incomplete initial TUR 2. No muscle in specimen with the exception of LG-Ta/GI and primary CIS 3. T1 tumors. 	All Grade A (Strong)	<i>Used as the reference standard</i>
AUA (American Urological Association)	<ol style="list-style-type: none"> 1. Incomplete initial TUR 2. HG-Ta tumours 3. T1 tumours 	<ol style="list-style-type: none"> 1. Grade B (strong) 2. Grade C (moderate) 3. Grade B (strong) 	No comment is made that HG-Ta tumours do not need reTUR if muscle is present in the initial TUR
NCCN (National Comprehensive Cancer Network)	<ol style="list-style-type: none"> 1. Incomplete initial TUR 2. No muscle in initial TUR for HG disease 3. Large or multi-focal lesions 4. T1 tumours 5. Select HG-Ta especially if no muscle in initial TUR 	All Strong	Include large or multi-focal lesions as a reason to re-resect. Doesn't specifically mention CIS
CUA (Canadian Urology Association)	<ol style="list-style-type: none"> 1. Incomplete initial TUR 2. T1 tumour in absence of muscle 3. Any HG or T1 tumour with benign muscle 	<ol style="list-style-type: none"> 1. Grade A 2. Grade A 3. Grade C 	Recommend reTUR in T1 or HG-Ta where muscle is present and not malignant.
NICE (National Institute for Clinical Excellence)	<ol style="list-style-type: none"> 1. All high-risk non-muscle invasive bladder cancer 	1. Low	Does not specify whether presence of muscle changes the approach.
ICUD (International Consultation on Bladder Cancer) 2012	<ol style="list-style-type: none"> 1. T1 tumours (regardless of the presence of muscle) 	1.Strong	Does not specify whether presence of muscle changes the approach. Does not discuss HG-Ta tumours.

QUALITA' della TURB

- ◆ RECIDIVA & tonaca muscolare nello specimen:
 - ✓ SI: 21,7 %
 - ✓ NO: 44,4 %¹
- ◆ T residuo a TURBT corretta: **9-40** %^{2, 3}
- ◆ re-TUR & risposta a BCG:
 - ✓ RECIDIVA: 29 vs 57 %
 - ✓ PROGRESSIONE: 7 vs 34 %⁴

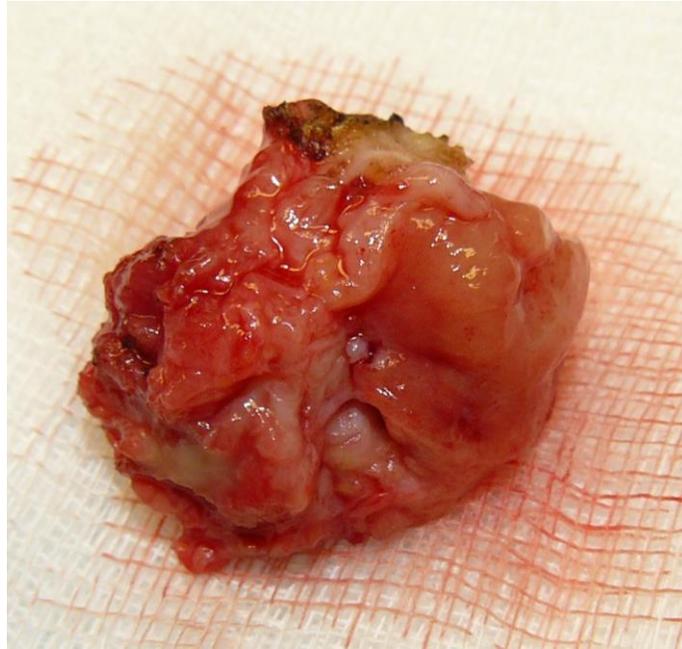
1. *Mariappan P et al., Eur Urol 2010; 57:843*

2. *Solsona E et al, J Urol 2000; 164:685*

3. *Babjuk M et al, Eur Urol 2008; 54: 303*

4. *Herr HV, J Urol 2005; 174:2034*

...oltre la reTUR: TURB “*en bloc*”

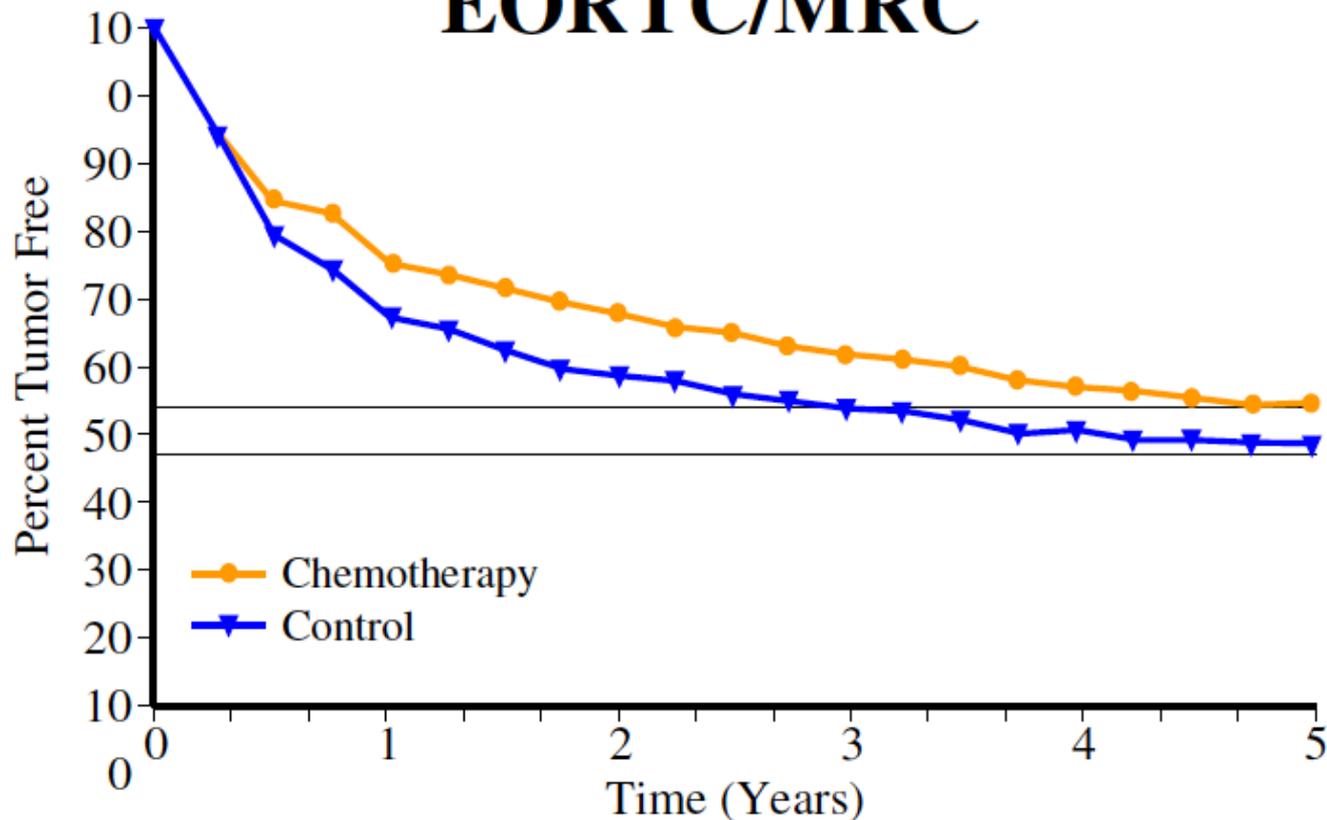


CHEMIOTERAPIA ENDOVESCICALE

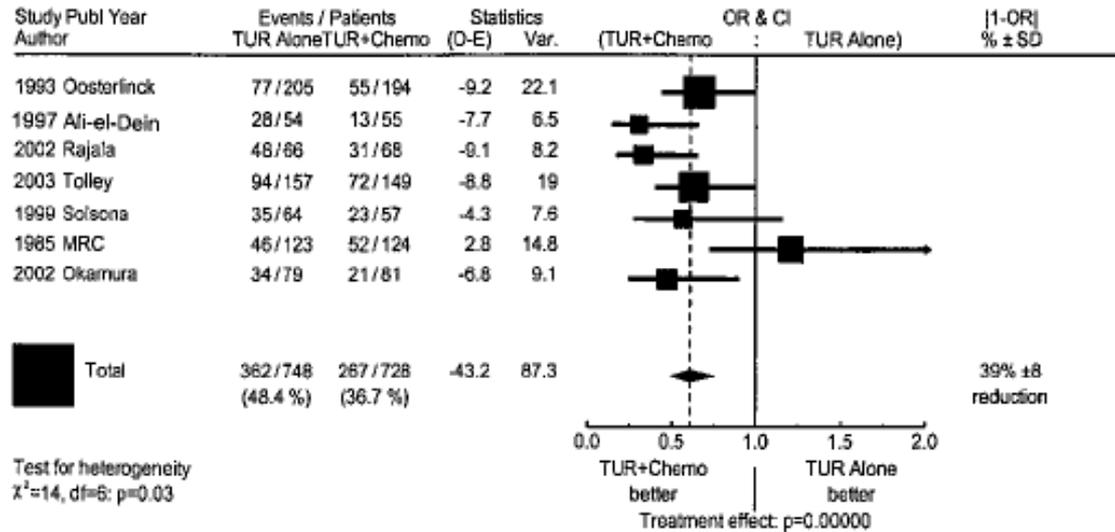
- ◆ ↓ RECIDIVA precoce
- ◆ efficacia maggiore nel RISCHIO non elevato
- ◆ non garantisce protezione a lungo termine
- ◆ non previene la PROGRESSIONE
- ◆ può essere utilizzata precocemente

5 year Tumor Recurrence Curves With Chemotherapy vs Control

EORTC/MRC



TUR ± CHT





Recurrence Rate dopo TURBT + CHT: 36-44 %

- ◆ Timing delle instillazioni
- ◆ ↑ della farmacocinetica
- ◆ Nuovi farmaci
- ◆ Associazioni di farmaci
- ◆ Agenti modulatori
- ◆ Tests di chemosensibilità

Mitomicina C

- ◆ antibiotico alchilante
- ◆ P.M. 334 Daltons → assorbimento sistemico < 1%
- ◆ indicazioni: **RISCHIO INTERMEDIO**
- ◆ somministrazione: 40 mg in 50 ml S.F.
 - ESI (Early Single Instillation)
 - Post-TURB (1 volta/settimana)
- ◆ dwell time: 1 h
- ◆ precauzioni: soggetti con OCU (ritenzione?) e/o IVU
- ◆ effetti sistemici
 - rari (< 3%)
 - febbre, malessere, sintomi similinfluenzali, sull' app. emopoietico
- ◆ effetti locali (> 30%)
 - frequenti
 - disuria, pollachiuria, stranguria, nicturia, solore sovrapubico
 - LIDOCAINA 1% in sol. fis.
 - reazioni cutanee (rash, prurito, vescicole)
 - ATTENZIONE ALLA PREPARAZIONE

Trattamento endocavitario post-TURBT

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A SINGLE IMMEDIATE POSTOPERATIVE INSTILLATION OF CHEMOTHERAPY DECREASES THE RISK OF RECURRENCE IN PATIENTS WITH STAGE Ta T1 BLADDER CANCER: A META-ANALYSIS OF PUBLISHED RESULTS OF RANDOMIZED CLINICAL TRIALS

RICHARD J. SYLVESTER,* WILLEM OOSTERLINCK AND ADRIAN P. M. VAN DER MEIJDEN

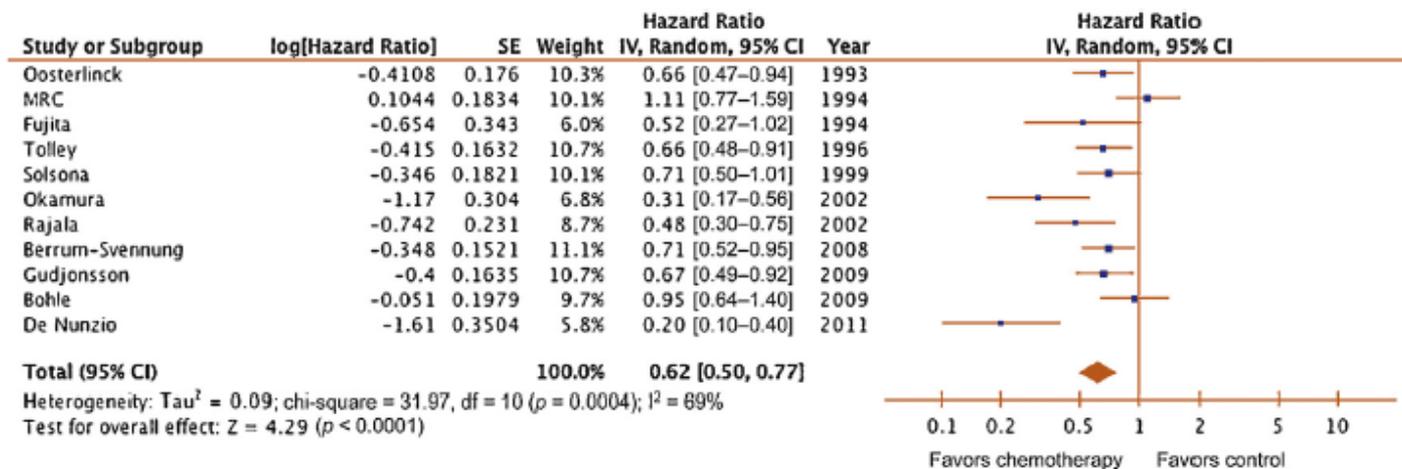
From the European Organization for the Research and Treatment of Cancer Data Center, Brussels, the Universitair Ziekenhuis Gent, Gent, Belgium, and the Jeroen Bosch Hospital, 's-Hertogenbosch, The Netherlands

7

- **TUR + CHT vs. TUR:** ↓ **39** % prob.tà di recidiva con CHT

Immediate Post-Transurethral Resection of Bladder Tumor Intravesical Chemotherapy Prevents Non-Muscle-invasive Bladder Cancer Recurrences: An Updated Meta-analysis on 2548 Patients and Quality-of-Evidence Review

Nathan Perlis^{a,b,c,*}, Alexandre R. Zlotta^{a,b,d}, Joseph Beyene^{c,e}, Antonio Finelli^{a,b,f}, Neil E. Fleshner^{a,b,f}, Girish S. Kulkarni^{a,b,g}



IMMUNOTERAPIA

- ◆ Bacillo di Calmette-Guerin (**BCG**)
- ◆ Interferone (IFN)

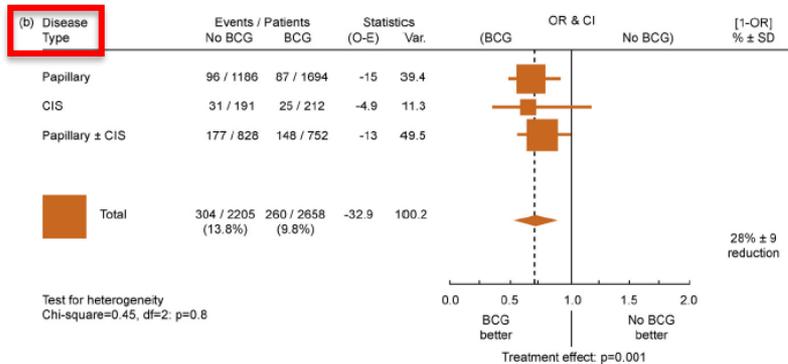
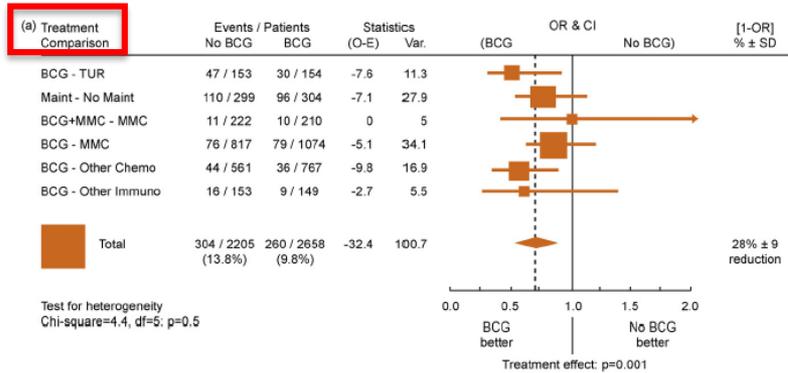
SCOPI PRINCIPALI:

- ↓ **RECIDIVA & PROGRESSIONE**
- **Ritardare la CISTECTOMIA**

BCG (Bacillo di Calmette-Guerin)

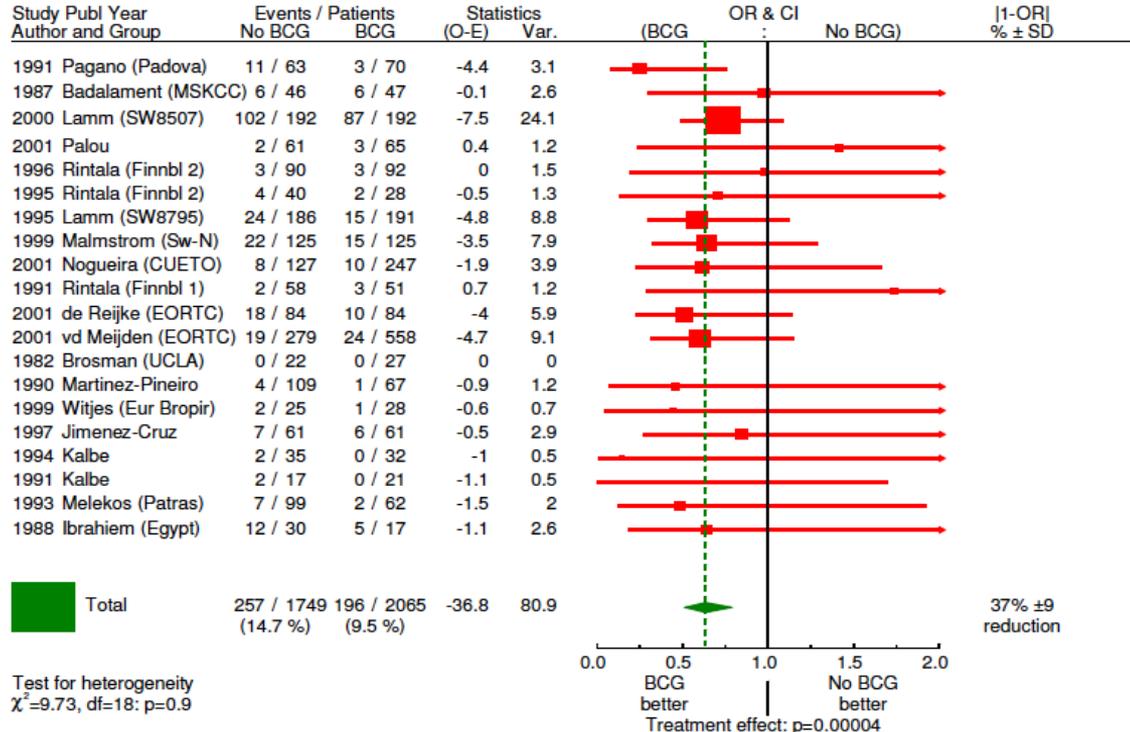
- ◆ ceppo attenuato di *Mycobacterium bovis*
- ◆ primo utilizzo: 1976 (Morales)
- ◆ ceppi di utilizzati in clinica: Pasteur, Armand Frappier, Tice, Connaught, Glaxo, Tokio, Dutch, Moreau
- ◆ meccanismo d'azione: non è noto, coinvolge meccanismi immunitari e infiammatori
- ◆ schema:
 - INDUZIONE: 1/settimana per 6 settimane
 - MANTENIMENTO: 1/settimana per 3 settimane (SWOG: 3-6-12-18-24-30-36 mesi)
- ◆ indicazioni:
 - **RISCHIO INTERMEDIO** (specie se recidivo)
 - **ALTO RISCHIO** (TCC papillare e/o **Ca in situ**)

PROSPERITY

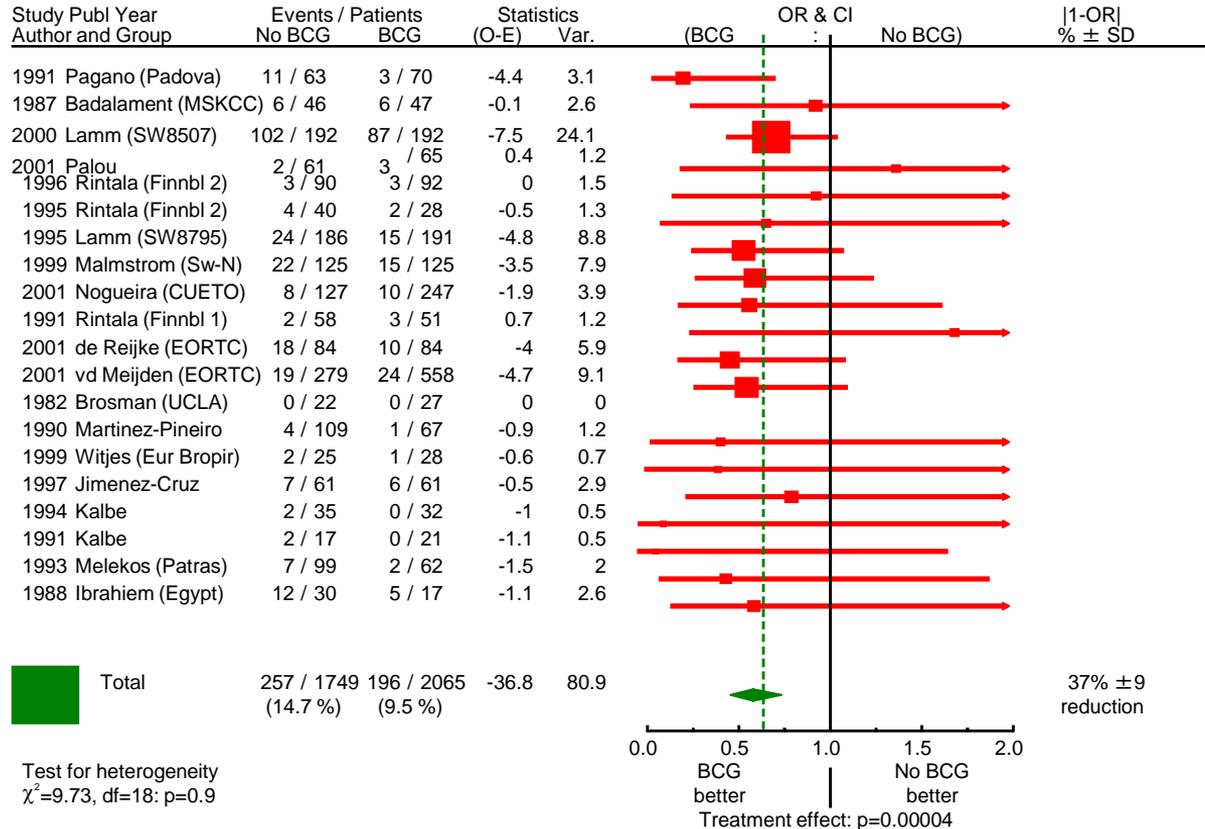


*Persad M et al., Eur Urol 2008;
suppl 7:637*

BCG



BCG Progressione di malattia (Mantenimento)



Increased accuracy of a novel mRNA-based urine test for bladder cancer surveillance

Renate Pichler*, Josef Fritz[†], Gennadi Tulchiner*, Gerald Klinglmair*, Afschin Soleiman[‡], Wolfgang Horninger*, Helmut Klocker*[§] and Isabel Heidegger*

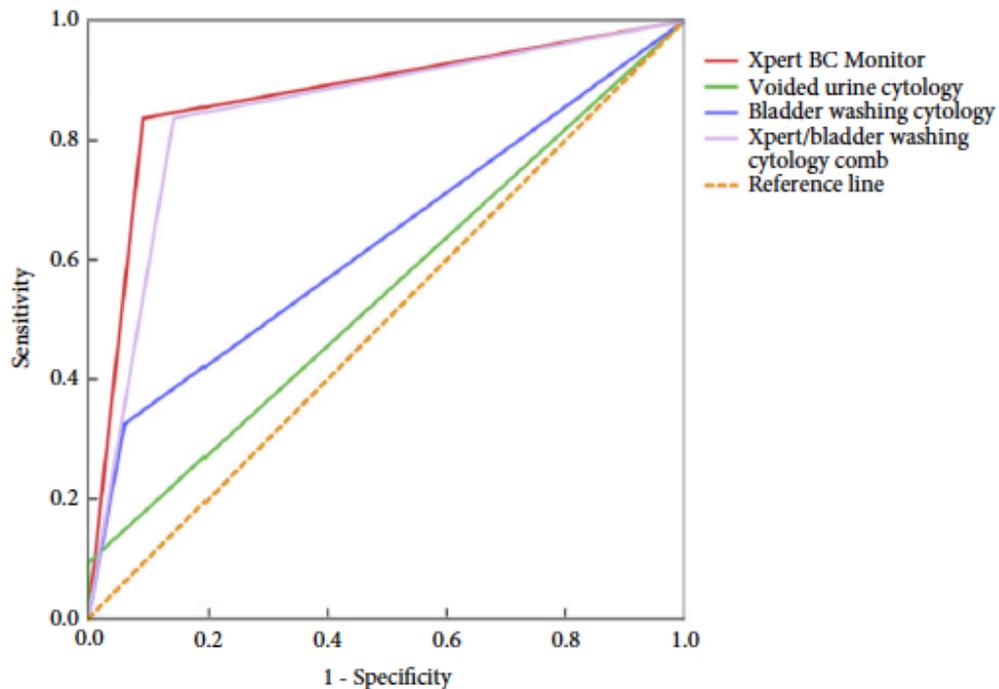
**Department of Urology, Medical University Innsbruck, Innsbruck, Austria, [†]Department of Medical Statistics, Informatics and Health Economics, Medical University Innsbruck, Innsbruck, Austria, [‡]Clinical Pathology and Cytodiagnostics, Tyrolean State Hospitals Ltd, Innsbruck, Austria, and [§]Urological Laboratory and Division of Experimental Urology, Innsbruck, Austria*

In this study, we report for the first time that the Xpert BC Monitor, a new mRNA-based urine test, outperforms cytology with regard to sensitivity and NPV, even in low-grade and pTa tumours, with no reduction of specificity.

Increased accuracy of a novel mRNA-based urine test for bladder cancer surveillance

Renate Pichler*, Josef Fritz¹, Gennadi Tulchiner*, Gerald Klinglmair*, Alschin Soleiman¹, Wolfgang Hominger*, Helmut Klocker^{1,2} and Isabel Heidegger*

*Department of Urology, Medical University Innsbruck, Innsbruck, Austria, ¹Department of Medical Statistics, Informatics and Health Economics, Medical University Innsbruck, Innsbruck, Austria, ²Clinical Pathology and Cytopathology, Tyrolean State Hospitals Ltd, Innsbruck, Austria, and ³Urological Laboratory and Division of Experimental Urology, Innsbruck, Austria



Diagnostic test method	AUC (95% CI)	P
Xpert BC Monitor	0.872 (0.800-0.945)	<0.001***
Voided urine cytology	0.547 (0.440-0.653)	0.381
Bladder washing cytology	0.632 (0.525-0.739)	0.013*
Xpert/bladder washing cytology combined	0.846 (0.771-0.922)	<0.001***

SWOG MVAC Trial

- Chemo regimen

Methotrexate 30mg/m² D1, D15, D22

Vinblastine 3mg/m² D2, D15, D22

Doxorubicin 30mg/m² D2

Cisplatin 70mg/m² D2

- Median survival 77 months in the chemo arm vs 46 months in the surgery alone arm
- 38% had complete pathologic response

GC vs MVAC

Efficacy/ Response

Response rates

	GC	MVAC
Overall Response*	49%	46%
Complete	12%	12%
Partial	37%	34%
Stable	33%	33%

Median duration of overall response

Gemcitabine plus Cisplatin	9.6 months (8.0-11.9)
MVAC	11.0 months (9.4-13.2)

* Response rates independently reviewed

ORIGINAL ARTICLE

Pembrolizumab as Second-Line Therapy for Advanced Urothelial Carcinoma

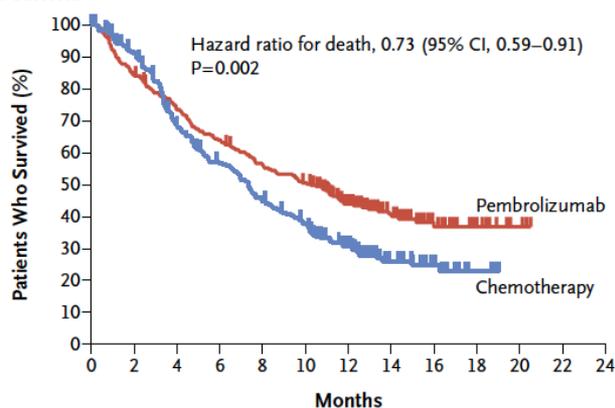
J. Bellmunt, R. de Wit, D.J. Vaughn, Y. Fradet, J.-L. Lee, L. Fong, N.J. Vogelzang, M.A. Climent, D.P. Petrylak, T.K. Choueiri, A. Necchi, W. Gerritsen, H. Gurney, D.I. Quinn, S. Culine, C.N. Sternberg, Y. Mai, C.H. Poehlein, R.F. Perini, and D.F. Bajorin, for the KEYNOTE-045 Investigators*

CONCLUSIONS

Pembrolizumab was associated with significantly longer overall survival (by approximately 3 months) and with a lower rate of treatment-related adverse events than chemotherapy as second-line therapy for platinum-refractory advanced urothelial carcinoma. (Funded by Merck; KEYNOTE-045 ClinicalTrials.gov number, NCT02256436.)

Pembrolizumab as Second-Line Therapy for Advanced Urothelial Carcinoma

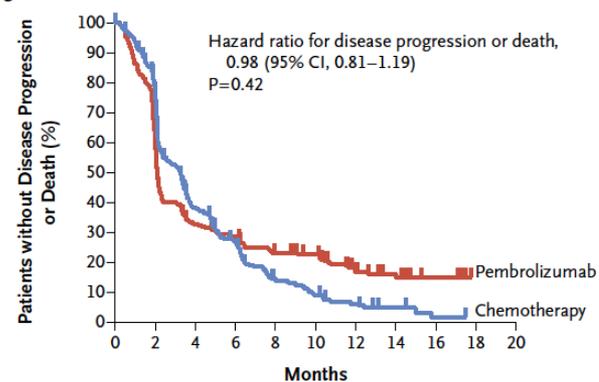
A Overall Survival



No. at Risk

Pembrolizumab	270	226	194	169	147	131	87	54	27	13	4	0	0
Chemotherapy	272	232	171	138	109	89	55	27	14	3	0	0	0

B Progression-free Survival



No. at Risk

Pembrolizumab	270	165	85	73	56	51	23	16	7	0	0
Chemotherapy	272	188	85	56	27	17	10	5	1	0	0

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DOI: 10.1056/NEJMoa1613683

CONCLUSIONI

- BC è patologia con diverse caratteristiche
- La stadiazione iniziale con TURB è fondamentale
- La terapia adiuvante delle forme nonmioinvasive è vantaggiosa
- Mancano ancora validi INDICATORI di PROGRESSIONE
- Nelle forme mioinvasive la terapia elettiva è la CISTECTOMIA, quando possibile preceduta dalla CHEMIOTERAPIA NEOADIUVANTE
- Stanno comparando terapie di II LINEA nelle FORME AVANZATE