

RALPH DE VERE WHITE, MD

STATE OF THE ART IN GENITOURINARY CANCERS

**RELEVANT FINANCIAL RELATIONSHIPS IN THE PAST TWELVE MONTHS BY
PRESENTER OR SPOUSE/PARTNER.**

**GRANT/RESEARCH SUPPORT: NCI
STOCK SHAREHOLDER: IMAGIN MEDICAL PRODUCTS**

**THE SPEAKER WILL DIRECTLY DISCLOSURE THE USE OF PRODUCTS FOR WHICH ARE
NOT LABELED (E.G., OFF LABEL USE) OR IF THE PRODUCT IS STILL
INVESTIGATIONAL.**



**19th Annual Advances in Oncology – 2018
September 28-29, 2018**

Topics To Be Covered:

- PSA Screening
- Lowering mortality for UC
 - NMIUC: Following standard of care
 - MIUC: More realistic approach to therapy

Prediction in 2012 After USPSTF Recommended Against PSA Screening

There would be an increase in:

- Advanced Disease at Presentation
- Prostate Cancer Mortality

Prostate Cancer Death Rate

<u>Death</u>	<u>Year</u>
34,900	1993
29,000	2004
27,560	2006

Population growth 11%

24% Drop in per capita death rate

PSA: Stage Migration

	<u>Pre PSA</u>	<u>Post PSA</u>
D2 at RX	30%	3%
Node Positive	22%	2%
Margin Positive	30%	15%
T1C	10%	84%

EUROPEAN UROLOGY FOCUS

All That Matters.

All Content

Search

[Advanced Search](#)

[Articles & Issues](#) ▾

[Journal Information](#) ▾

[For Authors](#) ▾

[Resources For Patients](#) ▾

[Related F](#)

[< Previous Article](#)

[Articles in Press](#)

[Next Article >](#)

Article in Press

Changing Incidence of Metastatic Prostate Cancer by Race and Age, 1988–2015

[Marc A. Dall'Era](#)  , [Ralph deVere-White](#), [Danielle Rodriguez](#), [Rosemary Cress](#)

Associate Editor: Christian Gratzke

 PlumX Metrics

DOI: <https://doi.org/10.1016/j.euf.2018.04.016>

- **Adjusted rates of metastatic PCa incidence for NHW men significantly increased by 4.3% since 2010**

CONCLUSIONS ON PSA SCREENING

- Continue to screen appropriate patients.
- Talk to patients concerning active surveillance PRIOR to biopsy.

Primary and Recurrent UC

<u>Stage</u>	<u>%TCC</u>	<u>Treatment to:</u>
*Ta	71%	Stop Recurrence
*T1	22%	Stop Progression Reduce Mortality



*Non muscle invasive (NMI)

Intravesical BCG

- BCG superior to TUR alone with regard to tumor recurrence^{1,2}
 - 31% net benefit

Increases progression-free survival at 10 yrs⁴ by 25%
TUR + BCG = 62%
TUR + delayed or no BCG = 37%

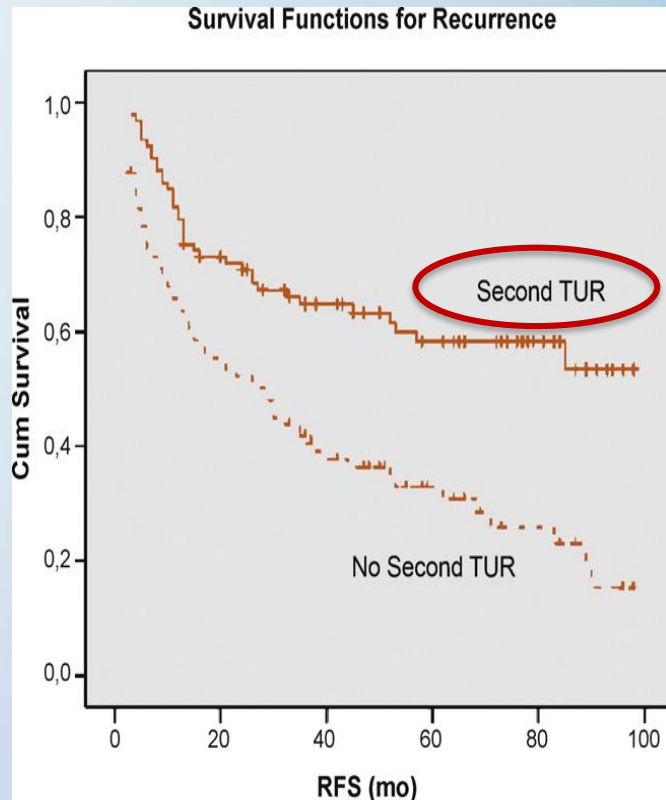
1. Brake M, *Urology* 2000; 55: 673-678.
2. Hurle R, *Urology* 1999; 54: 258-263.
3. Mack K, *J Urol* 2001; 165: 401-403.
4. Herr H, *J Clin Oncol* 1995; 13: 1404

Repeat TUR of T1 Cancers

- 48% Persistent NMIBC
- 30% Upstaged to MIBC

Herr HW. J Natl Compr Cancer Netw. 2015 13. 14111

Improved: Recurrence Free Survival Progression Free Survival



log-rank test result: 0.0001

Mean Follow-Up: 31.5 Months

	<u>Group 1</u>	<u>Group 2</u>
Second TUR	Yes	No
Recurrence	26%	63%
Grade 3	60%	90%
Progression	4%	12%

Repeat TURBT T1 & BCG For High Risk

- 14,302 patients T1 NMIUC
 - 15% Repeat TURBT
 - 10% Received BCG

Questions/Challenges

- **Guidelines strongly supported by AUA/SUO**
 - Home study courses
 - Instructional courses
 - Plenary sessions
 - State of the art talks
 - Featured Articles
 - Re-certification
 - Urology Care Foundation
- **Rated #1 Benefit by AUA members**

In 80-90% of our patients, they are not followed.

Muscle Invasive UC \geq T2

- 20% of initial tumors
- 8% of all tumors
- 80% of UC deaths
- 40-50% Response to chemotherapy

Improving Survival

- Clinical Trials/Research
- Evidence based medicine
- Standard of care

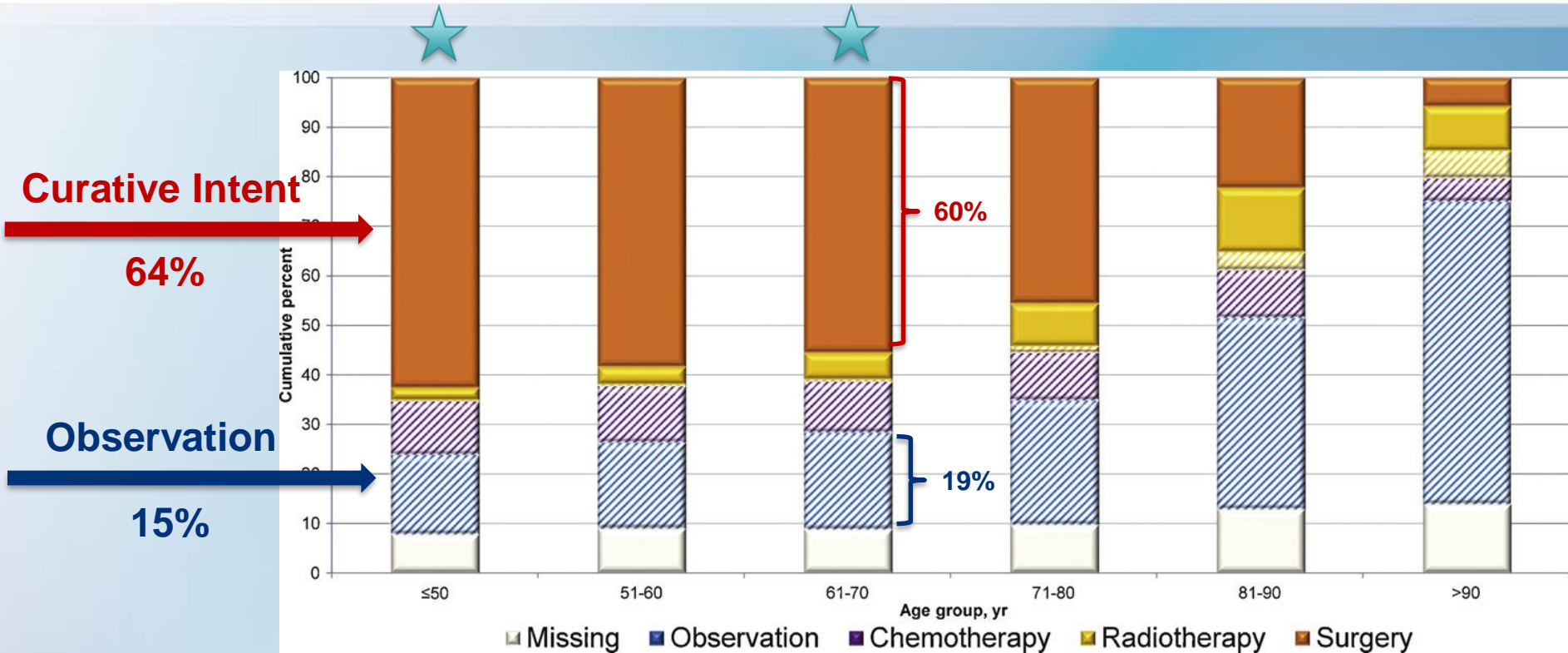
Recognizing realities of care

DSS No improvement in 25 Years

Muscle Invasive Urothelial Cancer Most Effective Therapy

- Neoadjuvant Chemotherapy
- Radical Cystectomy
- Pelvic Lymph Node Dissection

Therapy for M.I.U.C 28,691 Patients 04-08 NCDB



(Gray J.P EUR GRO 63(2013) 823-829)

Median age at diagnosis is 73 years.

Complication Rate Post Cystectomy (CUAJ 2013)

Diversion	Conduit	Neobladder
Complication	54%	51%

Hospital Volume and 90-day Mortality (BJU 2014)

Overall Mortality: 7.2%

Number of Cases: Mortality:

<10 8.0% (52% of Hospitals)

≥20 5.7% (32% of Hospitals)

169 Cases RC + ERAS Protocol USC (WJU 2017)

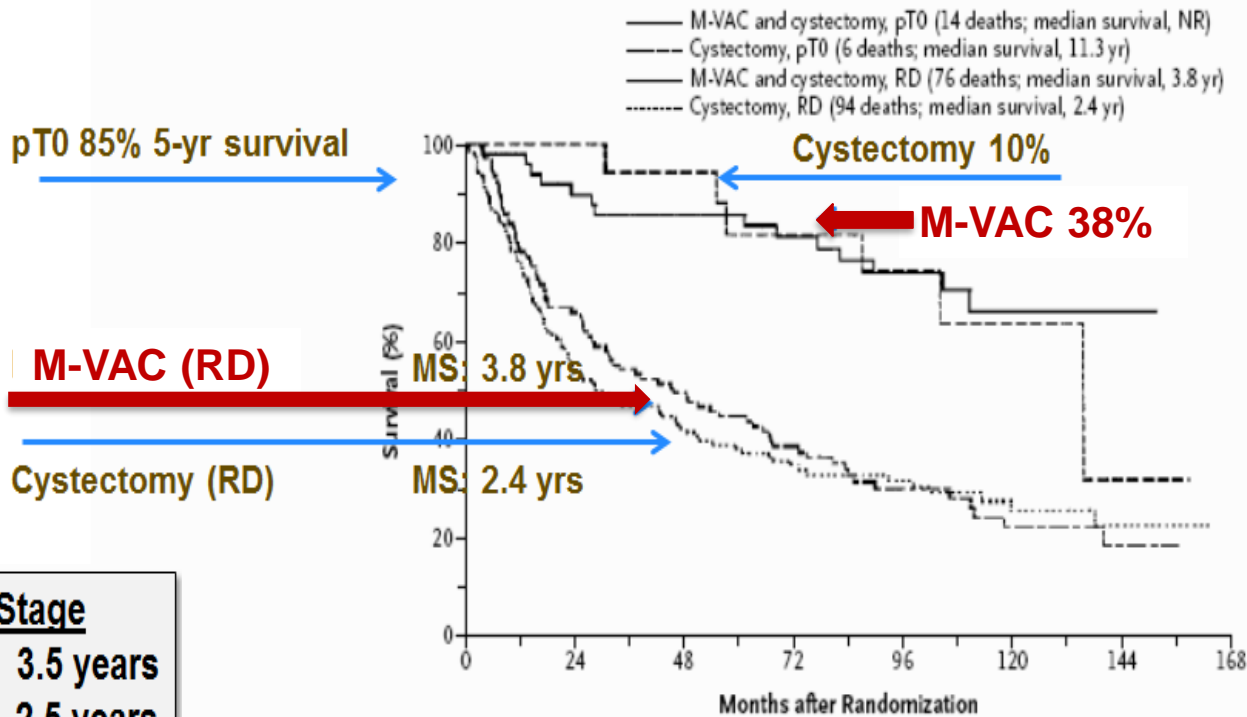
Complications: Major 24% ER Visit 38% Readmit 30%

Death 4% (7 patients)

Neoadjuvant chemotherapy plus cystectomy compared with cystectomy alone for locally advanced bladder cancer.

Grossman HB1, Natale RB, Tangen CM, Speights VO, Vogelzang NJ, Trump DL, deVere White RW, Sarosdy MF, Wood DP Jr, Raghavan D, Crawford ED.

Survival by Pathologic Stage at Cystectomy



+16mo

Benefit by Stage

cT3/cT4 3.5 years
 cT2 2.5 years

Risk	0	24	48	72	96	120	144	168
M-VAC and cystectomy, pT0	48	43	40	37	26	12	2	
Cystectomy, pT0	18	17	15	12	10	4	1	
M-VAC and cystectomy, RD	105	69	52	38	20	11	4	
Cystectomy, RD	136	71	52	37	27	14	6	

60 Patients MIBC NAC Followed by TUR Median Follow-Up 60 Months

Patient Group	Overall Survival	Cancer-Specific Survival
All Patients (60 Patients)	65%	73%
>cT0 Following NAC – Immediate Cystectomy (27 Patients)	51%	53%
cT0 Following NAC – No Recurrence or Cystectomies (17 Patients)	83%	100%
cT0 Following NAC – +Recurrence (15 Patients)	66%	73%
	Survival Local Regional Disease 38% (2017)	

Systematic Review and Meta-Analysis
on the Efficacy of Chemotherapy with
Transurethral Resection of Bladder Tumors
as Definitive Therapy for Muscle Invasive
Bladder Cancer (2017)

Results

Meta-Analysis

10 Papers, 266 PT's

OS At 5 Years Estimated To Be:

72% [95% CL 64% - 82%]

75% UC Davis

Therapy for Muscle Invasive Bladder Cancer Meta-Analysis (2018)

Trimodality (TMT)		RC +/- NAC (3.2%)
3,402 PT's		26,891 PT's
10 Year Survival Rates		
OS	31%	35%(+4%)
DSS	51%	58%(+7%)
T2 DSS	69%	79(+10%)

“Quality of evidence for results of this study was moderate to very low”

(Fahmy, J URO ONC 36(2018) 43-53)

To Improve Survival in MIUC

- More patients have to receive treatment with curative intent.
- Treatment needs to be tailored to what is possible for that patient and treating institution.

