A Phase II Trial of Risk Enabled Therapy After Initiating Neoadjuvant Chemotherapy for Bladder Cancer (RETAIN BLADDER): Interim analysis

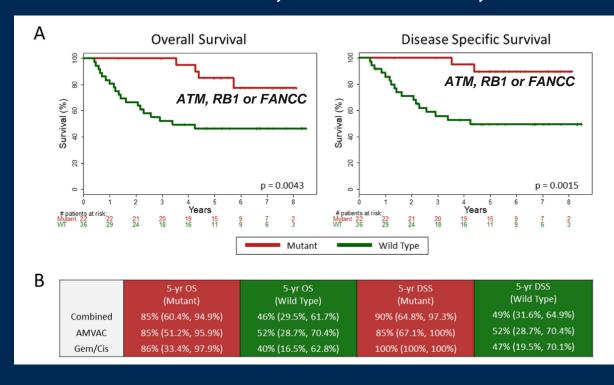
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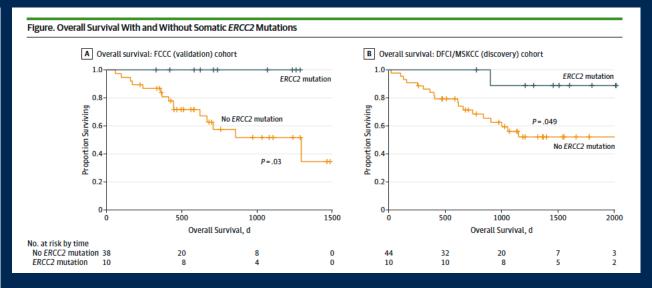
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Background

Miron...Plimack, Eur Urol Oncol, 2020



Liu...Rosenberg, JAMA Oncol 2016



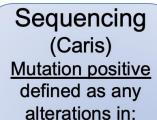
Trial Schema: NCT02710734

Major Inclusion Criteria:

- cT2-T3 N0M0
- ECOG 0-1
- Urothelial Predominant Histology

Not a randomized trial

TURBT #1 → AMVAC x 3 → TURBT #2



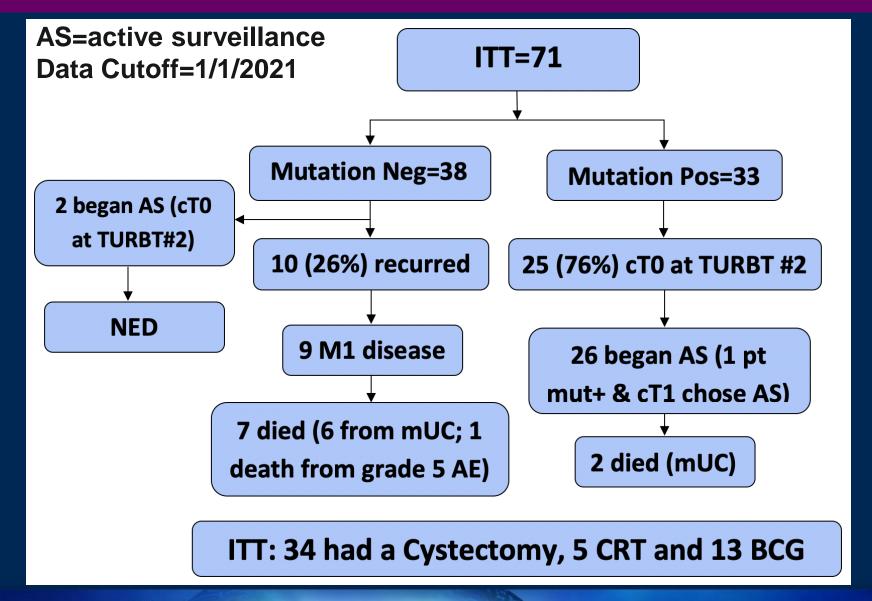
- ATM
- RB1
- FANCC
- ERCC2

Results: Baseline Characteristics

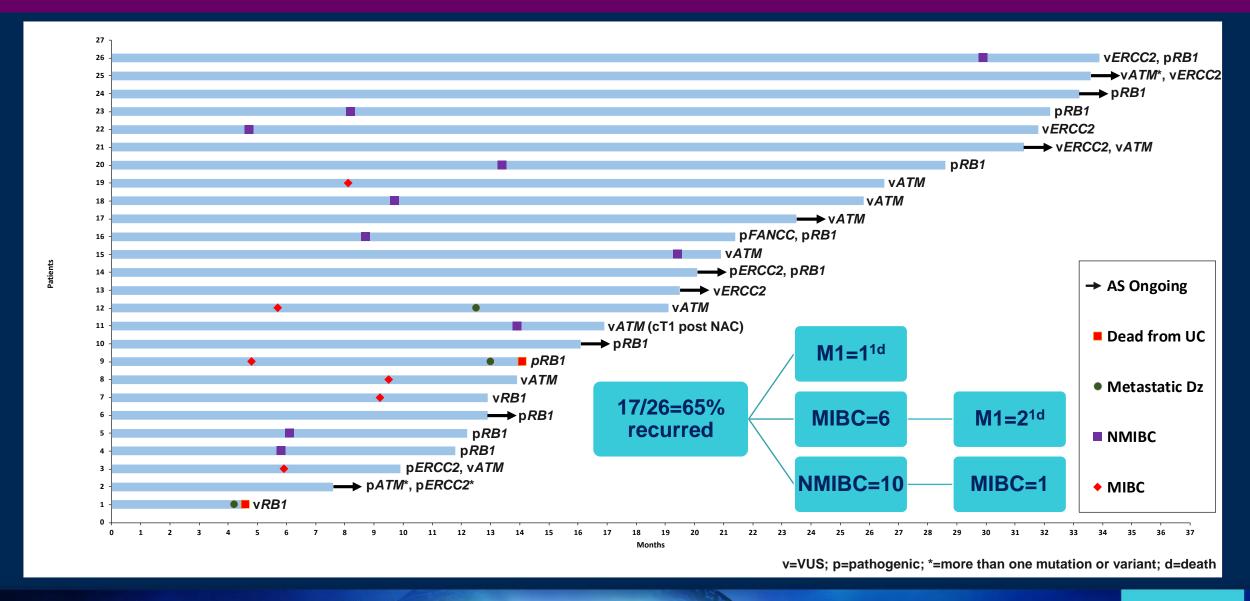
Characteristic	Number (N=71)	Percent (%)
Age		
Median	70	
Range	47-83	
Sex		
Male	54	76%
Female	17	24%
Race		
AA	3	4%
Asian	2	3%
White	66	93%
ECOG PS		
0	59	83%
1	12	17%

Characteristic	Number (N=71)	Percent (%)
Clinical Stage		
cT2	56	79%
сТ3	15	21%
AMVAC Cycles		
2	7	10%
3	64	90%
TRAE		
Grade 3/4	12	17%
Grade 5	1	1.4%

Results

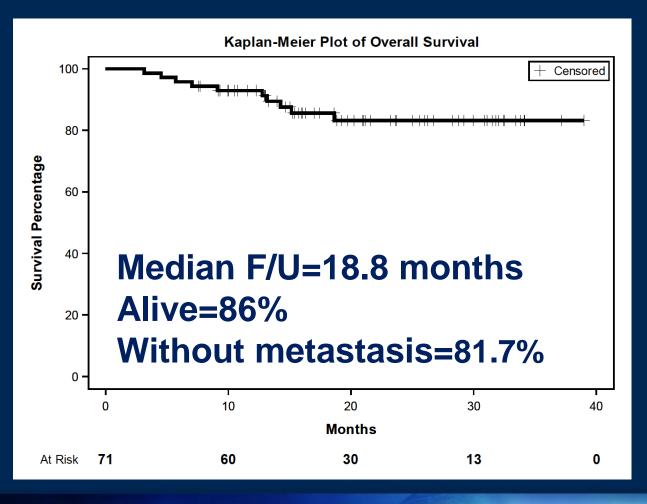


Results: Mutation Positive on Active Surveillance

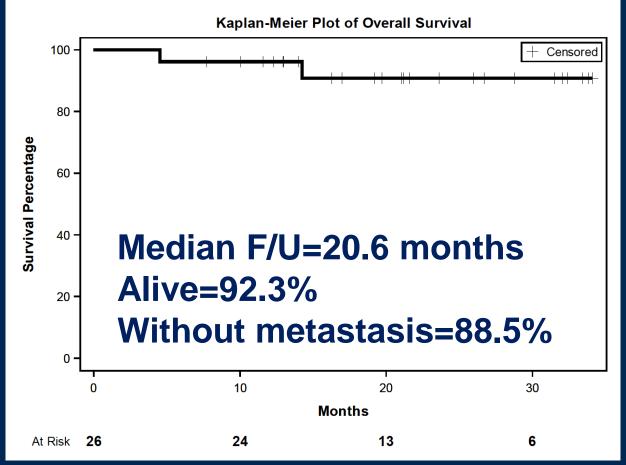


Results: Overall Survival

ITT (N=71)



Active Surveillance (N=26)



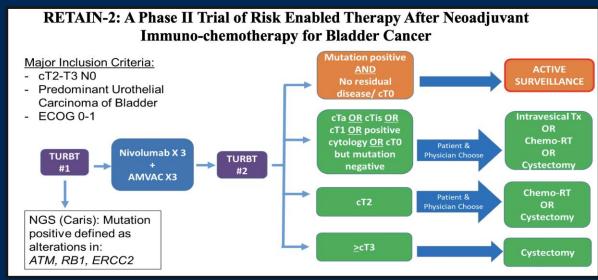
Results: Mutation distribution in surveillance patients

Total N=26	Patient Number (%)
RB1	13 (50%)
ATM	11 (42%)
ERCC2	8 (31%)
FANCC	1 (4%)
Multiple	7 (27%)

Total N=26	Recur (N=17)	Not Recur (N=9)
Pathologic mutation(s) present	8/17=47%	5/9=56%
VUS mutation(s) only	9/17=53%	4/9=44%
ERCC2 present	3/17=18%	5/9=56%
RB1 present	9/17=53%	4/9=44%
ATM present	7/17=41%	4/9=44%

Conclusions

- Follow-up continues for the primary endpoint of 2 year MFS in ITT: 81.7% are so far w/o M1 dz
- 77% of patients on active surveillance are alive, without M1 dz and with their bladder intact
- 65% of patients on active surveillance have had some form of recurrence:
 - 9/17 being NMIBC with bladder still intact
- 11.5% of patients on active surveillance have had M1 dz vs. 23.6% in those w/o mut.
- HCRN GU16-257 and A031701 are ongoing
- Risk adapted bladder preservation is NOT a standard-of-care



Thank you

- Session Chair
 - Girish S. Kulkarni, MD, PhD
- Colleagues & Collaborators
 - TJU
 - MedStar
 - JHU

Patients and Families

Fox Chase Cancer Center GU Team

