

1461P - Impact of first-line (1L) therapy on outcomes of adult patients (pts) with metastatic MiT family translocation renal cell carcinomas (TRCC) treated in the contemporary immune checkpoint therapy (ICT) era

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BACKGROUND

- TRCC represent a rare and aggressive subgroup of RCC¹.
- While 1L therapy recommendations and clinical prognostication of pts with clear-cell RCC are well-known, data on TRCC clinical behavior are limited¹.
- TRCC is reported to be an immune cold tumor³ and the data surrounding 1L ICT is scarce.

OBJECTIVES

To identify prognostic factors associated with 1L therapy in metastatic adult TRCC

To estimate overall survival (OS)

METHODS

- This is an international, multicenter retrospective cohort of metastatic adult TRCC patients treated in 1L across 11 genitourinary oncology expert centers in France, Belgium and the US.
- Demographic and clinico-pathological data were recorded by investigators at each participating sites through a uniform deidentified database.
- Diagnosis of TRCC was confirmed by FISH.
- Patients were not selected on the basis of clinical factors and treatment were given to each center's standard of care.
- Univariable and multivariable analysis of prognostic factors on OS were performed.



Variable,

Median

Sex

- Male
- Fema

Sites of

- Lymph
- Lung
- Bone
- Liver

IMDC ris

- Favora
- Interme
- PoorNA²
- De novo

Previous

Transloc

- TFE3
- TFEB

1L therap

- VEGFF
- ICT cor
- Other re

¹Can be more than one site; ²non available,³Tyrosine kinase inhibitor, ⁴either combination of anti-PD-L1 and anti-CTLA-4 or ICT with VEGFR-TKI, ⁵mostly chemotherapy or mTOR inhibitors

These data could suggest that some TRCC patients do not benefit of a 1L ICT and highlight the poorer prognosis and variability of this rare subtype of RCC compared to clear cell RCC.

SELINE CHARACTERISTICS AND					
EATMENT EXPOSURE (N=56)		•	56 betv		
e, n (%)			and		
age at diagnosis, years (range)	38 (16-62)	●	At m		
			mon alive		
ale					
f metastatic disease ¹ h nodes	35 (62.5%) 31 (55.4%) 23 (41.1%) 21 (37.5%)		Med (mo) pts com mo pts		
sk group able nediate	9 (16%) 38 (68%) 8 (14%) 1	_	pts in 1I By 1L I were		
o metastatic disease	29 (52%)				
is nephrectomy	42 (75%)		(1.4- 4.6; p=0.		
Cation type	47 (84%) 9 (16%)		ν-ν.		
apies ^F R-TKI ³ ombination ⁴ regimens ⁵	32 (57.1%) 18 (32.2%) 6 (10.7%)				

RESULTS

patients were included tween December 2011 d December 2020

median follow-up of 27.8 onths, 26 pts are still ve.

dian OS is 13.5 months b) (95% CI: 3.9-NA) for treated with ICT mpared with median 36.2 (95% CI: 27.7-NA) for who did not receive ICT 1L; p=0.0014

multivariable analysis, ICT and IMDC poor risk re the only variables sociated with inferior rvival (HR: 3.6; 95% CI 4-9.5); p=0.009 and HR: 5; 95%CI (1.05-19.9); 0.04)

Exploratory univariable analysis of prognostic factors on overall survival

Variables	Hazard ratio, (95%CI)	p-value
Sex (male vs female)	0.81 (0.39-1.7)	0.58
Age (sup or inf 37)	0.99 (0.48-2)	0.98
IMDC (poor vs intermediate/favorable)	4.2 (1.25-14)	0.02
Prior nephrectomy (yes vs no)	0.35 (0.16-0.78)	0.01
Type of translocation (TFEB vs TFE3)	2 (0.84-4.6)	0.12
Bone metastasis (yes vs no)	1.8 (0.88-3.7)	0.1
Brain metastasis (yes vs no)	1 (0.35-2.9)	1
Immunotherapy in first line treatment (yes vs no)	3.8 (1.6-8.9)	0.0025

Exploratory multivariable analysis of prognostic factors on overall survival

Variables

Immunotherapy in first line treatment (y

IMDC (poor vs intermediate/favorable)

Prior nephrectomy (yes vs no) Bone metastasis (yes vs no) Lung metastasis (yes vs no)

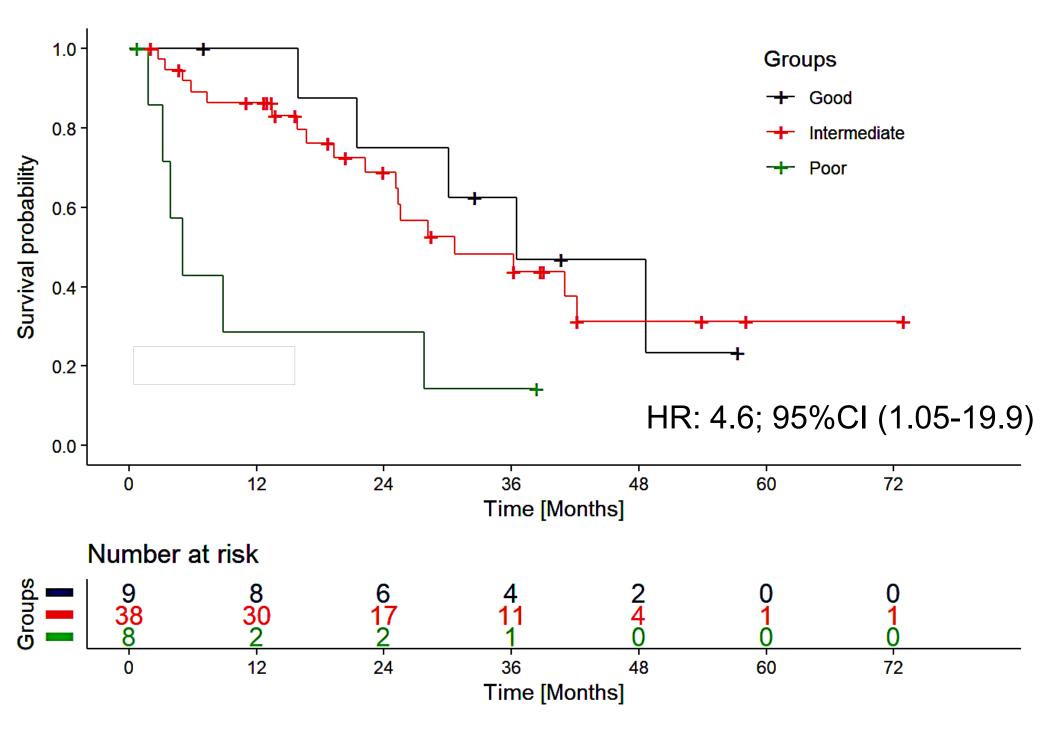
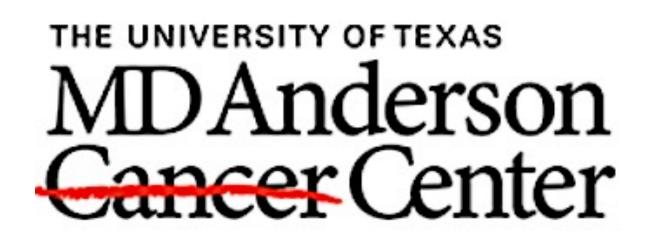


Figure 1: Kaplan-Meier curve for OS by IMDC risk group

CONCLUSIONS

Further collaborative research efforts are needed to elucidate the biology underpinning these findings and to develop more effective therapies for TRCC.



	Hazard ratio, (95%CI)	p-value			
es vs no)	3.6 (1.4-9.5)	0.009			
	4.6 (1.05-19.9)	0.04			
	0.47 (0.1-1.4)	0.17			
	0.96 (0.3-2.7)	0.94			
	0.97 (0.4-2.5)	0.96			
1.0 - + + + + + + + + + + + + + + + + + +		Groups + No + Yes HR: 3.6; 95% CI (1.4-9.5)			
0 12	24 36 48 Time [Months]	50 72			
Number at risk					
ā	24 15 6	1 1			
5 - 18 8	1 1 0 24 36 48	0 0 50 72			
	Time [Months]				

Figure 2: Kaplan-Meier curve for OS by 1L ICT