

Table S1. Observed Response Rate (ORR), Progression-Free Survival and Overall survival according to treatment line and primary tumor site in patients with prior RS

Observed Response Rate			
Treatment Line	Tumor site	ORR (%) (95% CI)	Multivariable ^a OR (95% CI)
1 st line	LTUC (n=181)	27 (21-34)	Reference
	UTUC (n=36)	33 (20-50)	0.97 (0.36-2.58)
2 ^{nd+} line	LTUC (n=109)	36 (27-45)	Reference
	UTUC (n=30)	20 (9-38)	0.31 (0.10-0.98) ^b
Progression-Free Survival			
		mPFS, months (95% CI)	Multivariable ^a HR (95% CI)
1 st line	LTUC (n=189)	4 (3-5)	Reference
	UTUC (n=38)	4 (2-10)	1.31 (0.80-2.13)
2 ^{nd+} line	LTUC (n=111)	5 (4-7)	Reference
	UTUC (n=30)	5 (3-7)	1.66 (0.97-2.83)
Overall Survival			
		mOS, months (95% CI)	Multivariable ^a HR (95% CI)

1 st line	LTUC (n=184)	9 (7-13)	Reference
	UTUC (n=38)	17 (9-NR)	1.07 (0.62-1.88)
2 ^{nd+} line	LTUC (n=106)	11 (8-18)	Reference
	UTUC (n=30)	14 (8-22)	1.19 (0.67-2.12)

^aAdjusted for internally developed risk score [11] for first line and Bellmunt score [16] for subsequent line ^bp-value<0.05

Abbreviations: ORR: Observed Response Rate, OR: odds ratio, OS: Overall Survival; PFS:

Progression-Free Survival, HR: Hazard Ratio; CI: Confidence Interval