Supplemental Online Content

Lou E, Clemente V, Grube M, et al. Tumor-stroma proportion to predict chemoresistance in patients with ovarian cancer. *JAMA Netw Open.* 2024;7(2):e240407. doi:10.1001/jamanetworkopen.2024.0407

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This supplemental material has been provided by the authors to give readers additional information about their work.

eTable 1. Patient Demographics and Clinical Characteristics of 192 Women Diagnosed with High Grade Serous Carcinoma (HGSC) of the Ovaries (University of Tübingen Cohort). SD=standard deviation;

FIGO=Federation Internationale de Gynecologie et d'Obstetrique.; TMA=Tissue MicroArray

Characteristic	Level	Slides	TMA
Number of patients		192	185
Age at diagnosis, mean (SD)		63.7 (11.1) (n=192)	63.4 (11.4)
Histology	HGSC	192 (100.0%)	185 (100%)
FIGO Stage	1	8 (4.2%)	6 (3.2%)
	2	14 (7.3%)	14 (7.6%)
	3	134 (69.8%)	129 (69.7%)
	4	36 (18.8%)	36 (19.5%)
Tumor (T)	1	9 (4.7%)	7 (3.8%)
	2	47 (24.5%)	45 (24.3%)
	3	130 (67.7%)	127 (68.6%)
	Unknown	6 (3.1%)	6 (3.2%)
Nodes (N)	N0	75 (39.1%)	70 (37.8%)
	N1	95 (49.5%)	94 (50.8%)
	Unknown	22 (11.5%)	21 (11.4%)
Metastases (M)	0	132 (68.8%)	126 (68.1%)
	1	36 (18.8%)	36 (19.5%)
	Unknown	24 (12.5%)	23 (12.4%)
Residual Disease	No	80 (41.7%)	74 (40%)
	Yes	108 (56.3%)	107 (57.8%)
	Unknown	4 (2.1%)	4 (2.2%)
		1	<u> </u>

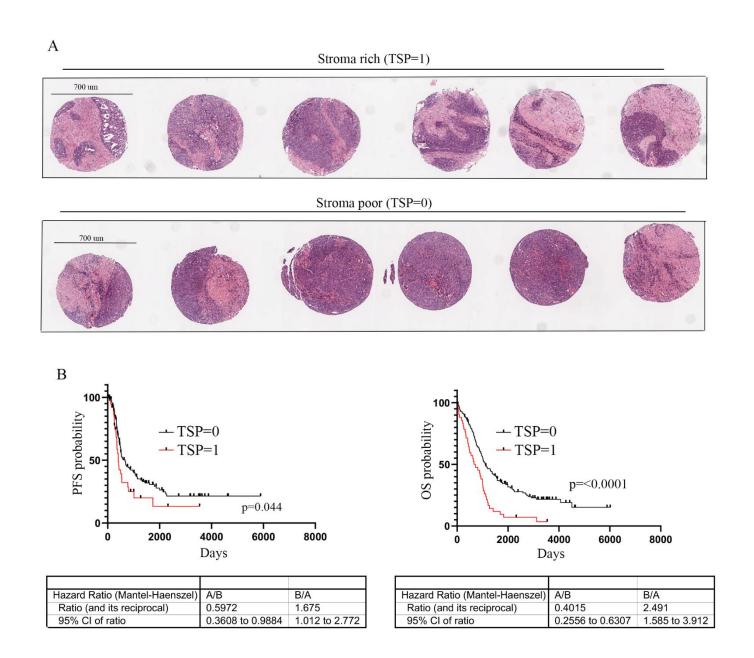
eTable 2. Multivariate Analysis of Progression Free Survival

Variable	Haz. ratio	P-value	[95% conf.	interval]
TSP	1.586	0.02	1.093	2.302
Age	1.010	0.19	0.995	1.024
Metastasis	1.138	0.53	0.761	1.703
Residual	2.038	< 0.001	1.436	2.892
Disease				

eTable 3. Multivariate Analysis of Overall Survival

Variable	Haz. ratio	P-value	[95% conf.	interval]
TSP	1.867	0.002	1.249	2.789
Age	1.035	< 0.001	1.018	1.052
Metastasis	1.572	0.03	1.040	2.375
Residual Disease	2.604	< 0.001	1.764	3.844

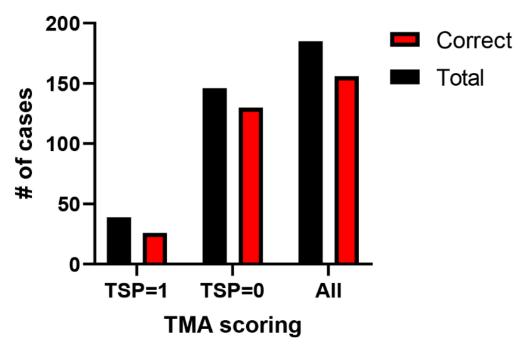
eFigure 1. Validation of the Use of TMAs to Predict Overall and Progression-Free Survival Based on TSP in the Tübingen Cohort.



A. *Top*, representative images of stroma rich. *Bottom*, representative images of stroma poor. **B.** *Left*, Kaplan-Meier curve for progression-free survival (PFS) in patients with low TSP (TSP=0) vs. high TSP (TSP=1) (p=0.04; HR 1.675 95% CI 1.012-2.772) as defined by scoring TMAs. *Right*, Kaplan-Meier curve for overall survival (OS) in patients with low TSP (TSP=0) vs. high TSP (TSP=1) as defined by scoring TMAs (p<0.001; HR 2.491 95% CI 1.585-3.912)

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eFigure 2. Comparison of TSP Assessment in TMAs With Its Assessment in Slides



From left to right: high TSP, low TSP, and all cases that were identified in TMAs (black) associated with the respective number of cases that were consistent with TSP assessment in slides (red).

eTable 4. Multivariate Analysis Chemoresistance

Variable	Odds ratio	P-value	[95% conf.	interval]
TSP	2.861	0.01	1.256	6.515
Age at diagnosis	0.991	0.60	0.958	1.025
Metastases	2.059	0.10	0.877	4.831
Residual disease	1.961	0.10	0.862	4.462
Lymph Node invasion	2.580	0.07	0.944	7.049
Metastases	1.737	0.23	0.697	4.327