## Supplementary Table S12. Ovarian cancer patient characteristics, median survival, and Multivariate Cox Regression Modeling.

Patient Characteristics: Ovary		LOR AL		ALP	No Benzo	Overall	P-value
	N	179 (31.		41 (7.2)	350 (61.4)	570 (100%)	
Sex	Female	179 (100.0%		1 (100.0%)	350 (100.0%)	570 (100.0%)	
Grade (Clinical)	l	8 (4.5%	,	2 (4.9%)	27 (7.8%)	37 (6.6%)	
	II	25 (14.19	-	3 (7.3%)	43 (12.5%)	71 (12.6%)	
	III	77 (43.5%	6)	12 (29.3%)	103 (29.9%)	192 (34.2%)	
	IV	15 (8.5%	,	8 (19.5%)	28 (8.1%)	51 (9.1%)	
	Not Reported	52 (29.4%	6)	16 (39.0%)	143 (41.6%)	211 (37.5%)	
Grade (Pathological)		8 (4.5%		2 (4.9%)	29 (8.5%)	39 (7.0%)	0.021
		25 (14.0%	6)	3 (7.3%)	44 (12.9%)	72 (12.9%)	
		77 (43.3%	-	12 (29.3%)	105 (30.9%)	194 (34.7%)	
	IV	15 (8.4%	6)	8 (19.5%)	28 (8.2%)	51 (9.1%)	
	Not Reported	53 (29.8%	6)	16 (39.0%)	134 (39.4%)	203 (36.3%)	
Stage (Clinical)	I	12 (6.8%	6)	5 (12.2%)	30 (8.6%)	47 (8.3%)	0.339
	II	4 (2.3%	6)	2 (4.9%)	11 (3.1%)	17 (3.0%)	
	III	16 (9.1%	6)	4 (9.8%)	29 (8.3%)	49 (8.6%)	
	IV	9 (5.1%	6)		33 (9.4%)	42 (7.4%)	
	Not Reported	135 (76.7%	6)	30 (73.2%)	247 (70.6%)	412 (72.7%)	
Stage (Pathological)	l	20 (11.4%		6 (14.6%)	70 (20.2%)	96 (17.0%)	
	II	5 (2.8%		3 (7.3%)	26 (7.5%)	34 (6.0%)	
		70 (39.8%	6)	11 (26.8%)	75 (21.6%)	156 (27.7%)	
	IV	22 (12.5%	6)	1 (2.4%)	39 (11.2%)	62 (11.0%)	
	Not Reported	59 (33.5%	6)	20 (48.8%)	137 (39.5%)	216 (38.3%)	
Overall Survival Indicator	Alive	47 (26.3%		12 (29.3%)	161 (46.0%)	220 (38.6%)	<.001
	Dead	132 (73.7%	-	29 (70.7%)	189 (54.0%)	350 (61.4%)	
Progression-Free Survival Indicator	No Progression	43 (24.0%		11 (26.8%)	145 (41.4%)	199 (34.9%)	
	Progression	136 (76.0%	6)	30 (73.2%)	205 (58.6%)	371 (65.1%)	
Overall Survival (OS)	Median Surv. (95% Cl)	Sample: Ovary		Log Rank P-value			
Total	56.3 (47.3, 66.8)	E=350 C=22		p= <.001	_		
ALP	64.2 (27.8, 97.2)	E=29 C=12			_		
LOR	40.5 (32.9, 47.9)	E=132 C=47			_		
No Benzo	70.5 (54.7, 88.8)	E=189 C=16	1 T=350				
Progression-Free Survival (PFS)	Median Surv. (95% Cl)	Sample: Ovary		Log Rank P-value			
Total	33.7 (28.5, 41.8)	E=370 C=19		p= 0.001	_		
ALP	27.8 (18.5, 97.2)	E=30 C=11			_		
LOR	26.4 (22.6, 31.1)	E=135 C=43 T=178					
No Benzo	42.2 (33.3, 54.7)	E=205 C=14	5 T=350				
Overall Survival (O	S)						
Predictors: Cohort	, Clinical Grade, and	l Clinical Stag	е				
Cohort	HR (95% CI)		P-valu	e			
No Benzo	Ref.	0.0011					
ALP	1.343 (0.901 – 2						
LOR	1.521 (1.212 –	1.907)	0.0003	3			
Progression-Free S							
No Benzo	Ref.		0.0025				
ALP	1.358 (0.918 –	-	0.1257				
LOR	1.464 (1.174 –	1.826)	0.0007	7			

## E= event, C= censored, T= Total