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Impact of surgical technique and tumour site on resected oesophageal cancer

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Background: surgery continues to play a leading role in achieving locoregional control in patients with oesophageal carcinoma; at present, there is no worldwide consensus regarding the optimal surgical approach.

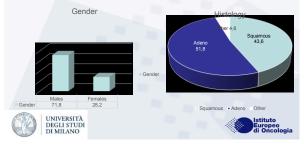
Aim: to assess the impact of surgical approach and tumour site on overall survival (OS) and disease free survival (DFS) on resected oesophageal cancers.

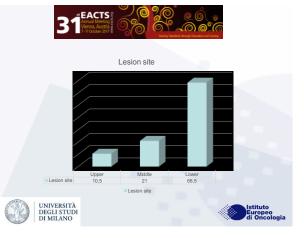


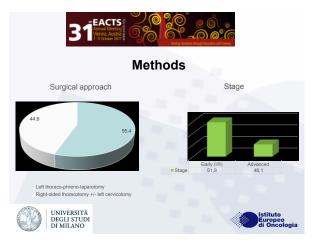


Patients

110 consecutive patients suffering from malignant oesophageal cancer undergoing radical intent surgery; mean age 66 (25-86).









Results

Left-sided approach presented lower overall complication rate when compared to different approaches (p<0.001).

Multivariable analysis disclosed that both overall survival (OS) and disease free survival (DFS) are significantly affected by major complications (OS p=0.01; DFS p=0.03) and advanced stage (OS p= 0.003; DFS p <0.001).

Surgical approach did not affect neither OS (p =0.6) nor DFS (p=0.4).





	-	Complications					
		Post-Surgery Complications,					
		None	N (row %) Minor ‡	Major †	Total, N (%)	p-Value	
Gender	Male	40 (50.6)	16(20.3)	23 (29.1)	79(71.8)		
	Female	19 (61.3)	4 (12.9)	8 (25.8)	31 (28.2)	0.58	
Year of surgery	1998-2000	14 (66.7)	2 (9.5)	5 (23.8)	21(19.1)		
	2001-2016	45 (50.6)	18 (20.2)	26 (29.2)	89 (80.9)	0.41	
Histology	Squanous Cell	23 (47.9)	9 (18.8)	16 (33.3)	48 (43.6)		
	Carcinoma						
	Adenocarcinoma	34 (59.7)	11 (19.3)	12 (21.1)	57 (51.8)		
	Displasia	1	0	2	3 (2.7)		
	Other	0	0	1	2 (1.8)	0.50	
Lesion site	Upper	3 (27.3)	2 (18.2)	6 (54.6)	11(10.5)		
	Middle	9 (40.9)	3 (13.6)	10 (45.4)	22 (21.0)		
	Lower	32 (54.2)	12 (20.3)	15 (25.4)	59 (56.2)	1 1	
	Cardias	10 (76.9)	3 (23.1)	0	13 (12.4)	0.03	
Stage	1	8 (50.0)	2 (12.5)	6 (37.5)	16 (14.6)		
	п	21 (51.2)	7 (17.1)	13 (31.7)	41 (37.3)		
		29 (58.0)	9 (18.0)	12 (24.0)	50 (45.5)		
	IV RC	0	2	0	2 (1.8)	0.39	
GPS Class	0	45 (53.6)	14(16.7)	25 (29.8)	1 (0.9) 84 (80.8)	0.39	
GPS Class	1	45 (53.6) 8 (47.1)	4 (23.5)	25 (29.8) 5 (29.4)	17 (16.4)		
	2	2	4 (23.3)	1	3 (2.9)	0.93	
Pre-treatment CT/RT	-	6 (54.6)	0	5 (45.4)	3 (2.7)	0.18	
Pre-treatment CT/RT Surgery 1	Left	45 (73.8)	10(16.4)	6 (9.8)	61 (55.4)	0.18	
Surgery *	Other		10(16.4)	25 (51.0)	61 (55.4) 49 (44.6)	<.001	

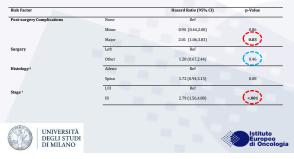


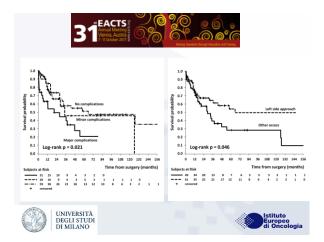
Multivariable overall survival analysis

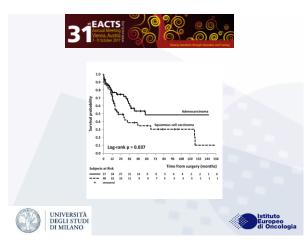
Risk Factor		Hazard Ratio (95% CI)	p-Value
Post-surgery Complications	None	Ref	
	Minor	0.89 (0.37,2.17)	0.80
	Major	2.37 (1.22,4.62)	0.01
Surgery	Left	Ref	
	Other	1.21 (0.61,2.41)	0.60
Histology [§]	Adeno	Ref	
	Spino	1.70 (0.89,3.23)	0.11
Stage †	1/11	Ref	
	ш	2.51 (1.37,4.61)	.003
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Multivariable disease free survival analysis









Results

Left sided approach offers the lowest complication rate in oesophageal resection for cancer, providing the same OS and DFS when compared to the right sided approaches.

It should be considered as an ideal surgical approach - when technically feasible – for lesions involving the distal third of the esophagus.





