THE EFFICACY OF ESOPHAGEAL STENTING IN MANAGING ESOPHAGEAL TUMOR PERFORATION: A RETROSPECTIVE STUDY

Dr Zainab Shakeel, Dr Amer Rehman Farooqi, Dr Zubair Shabir Khandaza, Dr Muhammah Kashan Sajid, Dr Samar Minallah, Dr Atif Saleem

Shaukat Khanum Memorial Cancer Hospital and Research Centre, Peshawar, Pakistan.

OBJECTIVE

To determine the effectiveness of esophageal stenting (ES) in managing esophageal tumor perforation at different stages of the disease and long-term outcomes.

METHODS

This study was conducted at Shaukat Khanum Memorial Cancer Hospital and Research Center in Peshawar, Pakistan 1st, 2016, to December 31st, 2021, were obtained between October and December 2024.

This retrospective cohort study total of 600 reviewed а patients, that had presented from 2016 to 2021, with esophageal tumor perforation. Eighty patients who fulfill the inclusion criteria and underwent esophageal stenting were enrolled in the study.

Data regarding demographic, tumor characteristics, treatment history and survival status were collected from hospital electronic system.

SPSS-25 was used for analysis purpose. The chi-square test was employed to determine statistical significance (p s 0.05).

RESULTS

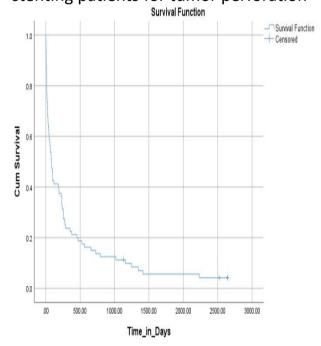
The mean age of patients was 46.98 ± 11.62 years and most of the patients were male 45(56.3%). Squamous cell carcinoma was the most prevalent histological type, accounting for 74(92.5%) of cases. Advanced stage disease was observed in the majority of cases, with T3 at 48(60.5%) and T4 at 15(18.8%).Additionally, 34(42.5%) exhibited nodal involvement (N1 and N2 each) and 23(28.7%) had metastatic. The median stent insertion till the study period was 83 days, with a range from 1 day to 7 years. Survival status was suboptimal, with 76(95%) deceased 4(5%) surviving. Kaplan-Meier analysis demonstrates the median survival of 200 days.

TABLE 2: T-STAGE AND NODAL	
INVOLVEMENT ASSOCIATION WITH	
SURVIVAL	

Variable	Category	Alive	Death	p Value	
	1	0 (0.0%)	1 (1.3%)		
T Stage	2	1 (25.0%)	15 (19.7%)		
	3	2 (50.0%)	46 (60.5%)	0.967	
	4	1 (25.0%)	14 (18.4%)		
	Total	4 (100.0%)	76 (100.0%)		
Nodal Involvement	0	1 (25.0%)	11 (14.5%)		
	Nodal	1	2 (50.0%)	32 (42.1%)	0.726
	2	1 (25.0%)	33 (43.4%)	0.726	
	Total	4 (100.0%)	76 (100.0%)		
Metastasis	0	3 (75.0%)	54 (71.1%)		
	1	1 (25.0%)	22 (28.9%)	0.675	
	Total	4 (100.0%)	76 (100.0%)		
Histology	Adenocarcinom a	0 (0.0%)	4 (5.3%)		
	Squamous Cell Carcinoma	4 (100.0%)	70 (92.1%)	0.843	
	Other Types	0 (0.0%)	2 (2.6%)		
	Total	4 (100.0%)	76 (100.0%)		

	PATIENTS GY, STAGII FCOME			
HISTO	DLOGY	n(%)	Total	
	Squamous Cell Carcinoma	67(83.8%)		
Squamous Cell Carcinoma	Moderately Differentiated Squamous Cell Carcinoma	5(6.3%)	74(92.5%)	
	Well- Differentiated Squamous Cell Carcinoma	2(2.5%)		
	Adenocarcinoma	3(3.8%)	4(5%)	
Adenocarcinoma	Poorly Differentiated Adenocarcinoma	1(1.3%)		
	High-Grade Neuroendocrine Carcinoma	1(1.3%)	2(2.5%)	
Other Types	Mucoepidermoid Carcinoma & GOJ Tumor	1(1.3%)		
	STAC	GING		
	ΤΊ	1(1.3%)		
T	T2	16(20%)		
	Т3	48(60%)		
	T4	15(18.8%)		
N	N0 N1	12(15%)		
N	N2	34(42.5%) 34(42.5%)		
	M0		1.3%)	
M	M1	23(28.7%)		
	CHEMO-RADI	O THERAPIES		
No Chemo-Radio Therapy 11(13.8%)				
	dio Therapies	37(46.3%)		
Only Cher	no Therapy	32(40%)		
	of stent insertion to of the study	83 days (min=1 day, max=7.24 years)		
	SURVIVA	L STATUS		
Al	ive	4(5	(%)	
-				

Kaplan-Meier survival analysis of esophageal stenting patients for tumor perforation



CONCLUSION

Esophageal stenting serves as an effective palliative intervention for managing tumor-induced esophageal perforation, particularly in patients with advanced disease, and prolongs the survival time.