





The efficacy and safety of esophagectomy in elderly patients with esophageal cancer

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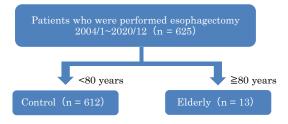
Introduction	Preoperative therapy			-
1. Performing esophagectomy on elderly patients	None CT	239 (40) 274 (45)	12 (92) 1 (8)	<0.001
The incidence of cancer is increasing among the elderly 74% of patients are diagnosed with esophageal cancer at their "60's and 70's" in Japan (Tachimori Y, et al. Esophagus. 2019;16(3):221-245). Esophageatomy is the first choice for patients with resectable esophageal carcinoma (The Japan Esophageal Society. Guidelines for Diagnosis and Treatment of Carcinoma of the Esophagus 2017). Although surgical practice has advanced, surgeons are more reluctant to perform surgery for elderly patients because of their comorbidity (Baranov NS, et al. J Gastrointest Surg. 2019;23(7):1293-1300).	Squamous cell carcinoma Adenocarcinoma Others Pathological Stage (TNM 8th)	54 (8) 45 (7) 560 (91) 40 (6) 12 (3) 34/105/239/56/203/8/17	0 (0) 0 (0) 12 (92) 1 (8) 0 (0)	0.819 0.319
2. Treatment strategy in our institution	pN0/1/2/3 pM0/1	3530145/98/39 577/35	3/6/4/0 12/1	0.046 0.493
Minimizing invasiveness of surgery	pStage0/I/II/III/IV Resection R0 R1	21/217/132/160/82 539 (88) 61 (10)	0/2/2/7/2 10 (76) 2 (15)	0.052 0.604
Make perioperative management throughly	<u>R2</u>	12 (2)	1 (9)	

> Surgery has been performed to resectable esophageal carcinoma when ASA-PS is lower than 2 regardless to age.

3. The purpose of this study

> Assess the efficacy and safety of esophagectomy in the elderly with esophageal cancer.

Materials and methods



> Analyze the perioperative characteristics and prognosis of elderly patients with esophageal carcinoma to those of nonelderly patients

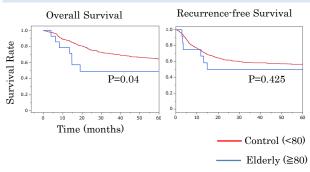
Result

	Patients <80	Patients ≧80	P
	years	years	value
	n = 612 (%)	n = 13 (%)	
Age (range)	65 (34-79)	80 (80-85)	< 0.001
Sex			0.873
Male/Female	528/84	12/1	
Location (%)			0.169
Ce	4 (0.01)	0 (0)	
Ut	79 (13)	1 (7)	
Mt	406 (66)	7 (53)	
Lt	123 (20)	5 (40)	
Clinical Stage (TNM 8th)			
cT1/2/3/4a/4b	231/155/176/13/35	4/3/6/0/0	0.611
cN0/1/2/3	286/217/102/7	9/3/1/0	0.385
cM0/1	594/18	13/0	0.5
cStageI/II/III/IVA/IVB	211/192/139/50/20	3/6/4/0/0	0.81

Surgical characteristics

Patients <80 years n = 612 (%)	Patients ≥ 80 s years n = 13 (%)	P value
485 (441-551)	435 (357-632)	0.049
278 (90-325)	295 (76-353)	0.486
L		0.309
449 (73)	6 (46)	
133 (21)	6 (46)	
30 (6)	1 (8)	
1 484 (79)	10 (76)	0.392
n 128 (21)	3 (24)	
55 (39-79)	51 (25-71)	0.651
	n = 612 (%) 485 (441-551) 278 (90-325) 449 (73) 133 (21) 30 (6)	Patients <80 years years n = 13 (%) 485 (441-551) 435 (357-632) 278 (90-325) 295 (76-353) 449 (73) 6 (46) 133 (21) 6 (46) 30 (6) 1 (8) 484 (79) 10 (76) 128 (21) 3 (24)

Prognosis of the elderly



	Overall Survival rate		Recurrence-free Survival rate		
	Control	Elderly		Control	Elderly
1 year	87.8%	70.8%		73%	58%
3 year	75.0%	48.6%		66.6%	48.0%

Discussion / Conclusion

> Esophagectomy could be performed feasibly and safely to elderly patients