

Long term quality of life in patients after McKeown vs Ivor Lewis esophagectomy



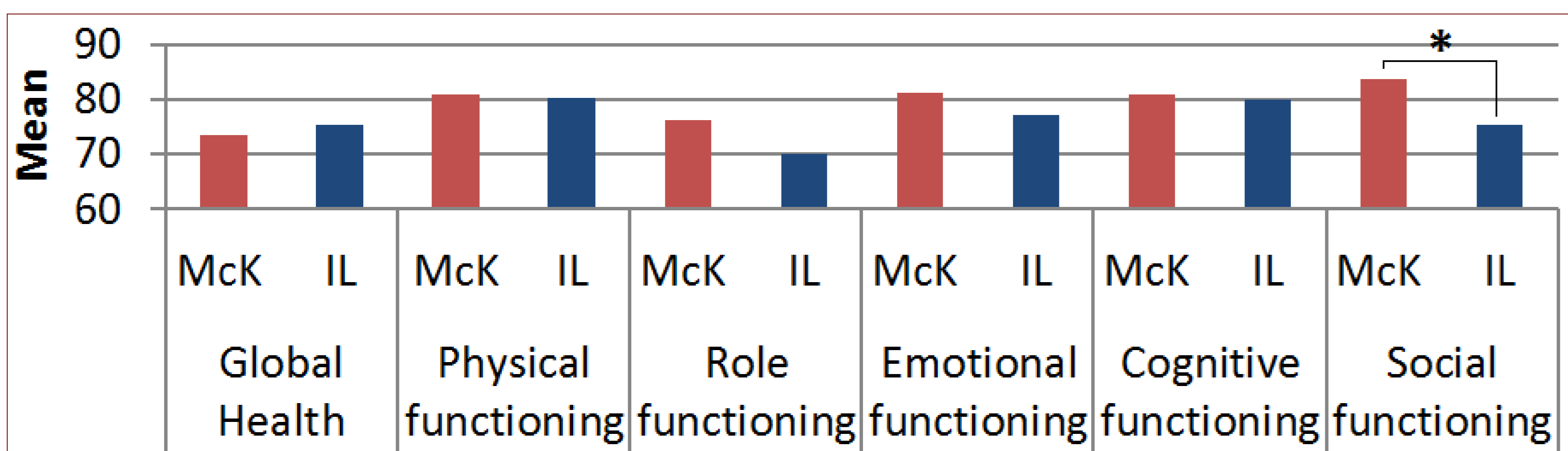
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Background: Treatment of esophagus and gastroesophageal junction (GEJ) cancers is challenging. The therapy for these cancers mainly consists of (neo)adjuvant chemo(radio)therapy and surgery. Different surgical approaches exist and there is no evidence which is the preferred approach in terms of oncology and postoperative morbidity.

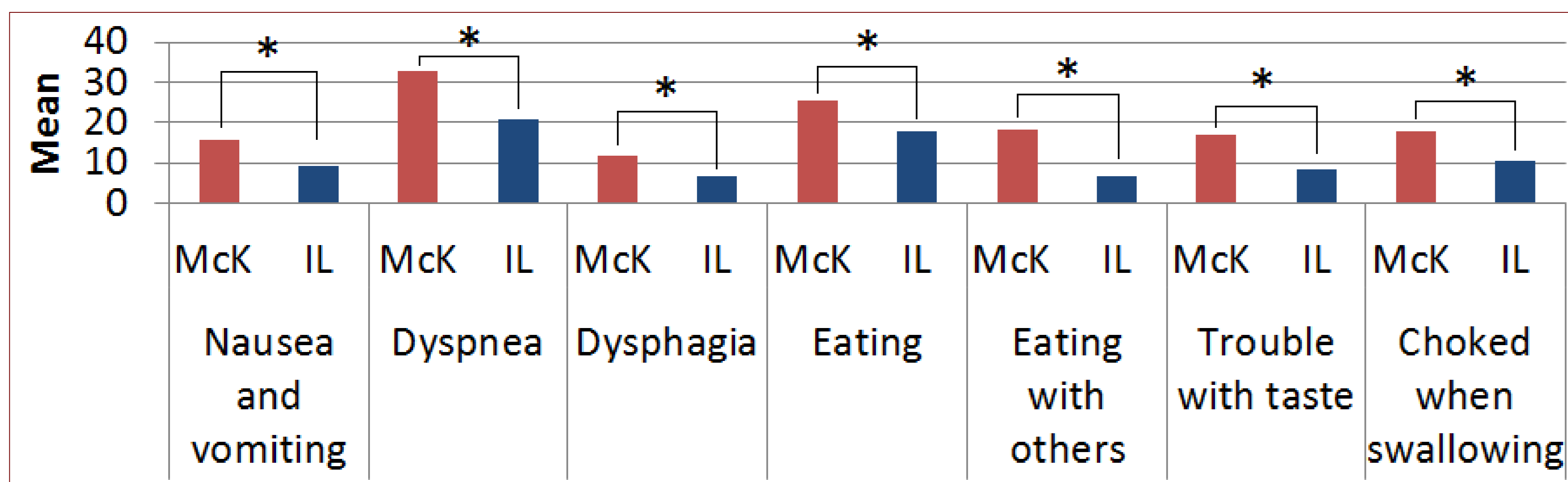
Objective: To investigate the difference in the long-term quality of life in patients with distal esophagus and GEJ cancers undergoing McKeown (McK) versus Ivor Lewis (IL) esophagectomy in a tertiary referral center.

Methods: Quality of life questionnaires (EORTC QLQ-C30, OG25 & INFO25) were handed out during the outpatient clinic appointments during the period of January 2014 - December 2017 to patients with distal esophagus and GEJ cancers >1 year after McKeown or Ivor Lewis esophagectomy. Patients with proximal esophageal cancer and metastases or relapse during follow up time were excluded from this study.

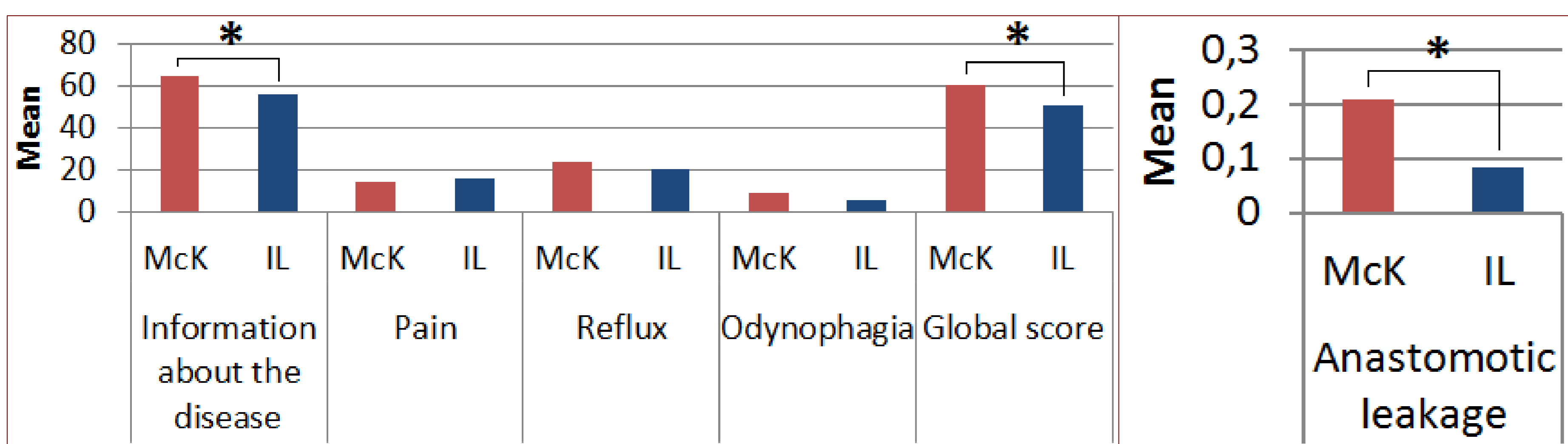
Results:



- No significant difference in Global Health, physical, role, emotional and cognitive functioning.
- Significantly better social functioning after McKeown esophagectomy.



- Significantly less nausea & vomiting, dyspnea, dysphagia, trouble with eating, trouble with taste, choking when swallowing after Ivor Lewis esophagectomy.



- Significantly better Global score and more received information about the disease after McKeown esophagectomy.
- Significantly more anastomotic leakage after McKeown esophagectomy.
- No significant difference in pain, reflux or odynophagia.

		McKeown	Ivor Lewis	P
		N (%)	N (%)	
N		67	107	
Age (yrs)	Mean	63	61	0,194
	Range	28-82	43-81	
Gender	Male	46 (74,2)	83 (77,6)	0,621
	Female	16 (25,8)	24 (22,4)	
Tumor location	Distal esophagus	54 (87,1)	37 (34,6)	0,000
	GEJ	8 (12,9)	70 (65,4)	
Follow-up time (yrs)	Mean		2,5	
	Range		1-6	
Open vs scopic	Open	10 (16,1)	6 (5,6)	0,031
	Scopic	52 (83,8)	101 (94,4)	
ASA classification	1	8 (12,9)	28 (26,2)	0,671
	2	49 (79)	53 (49,5)	
	3	5 (8,1)	26 (24,3)	
Neo-adjuvant therapy	No	5 (8,1)	13 (12,2)	0,388
	Yes			
	Chemo	0	4 (3,7)	
Adjuvant therapy	No	60 (96,8)	82 (76,6)	0,000
	Yes			
	Chemo	2 (3,2)	24 (22,4)	
Post-op complications	Yes	29 (46,8)	44 (41,1)	0,478
	No	33 (53,2)	63 (58,9)	
Anastomotic leakage	Yes	13 (21)	9 (8,4)	0,035
	No	49 (79)	98 (91,6)	
Histologic type	Adenocarcinoma	43 (69,4)	99 (92,5)	0,001
	Other	19 (30,6)	8 (7,5)	
(y)pT	T0	0	9 (8,4%)	0,106
	T1	14 (22,6)	27 (25,2)	
	T2	16 (25,8)	21 (19,6)	
	T3	30 (48,4)	48 (44,9)	
	T4	2 (3,2)	2 (1,9)	
(y)pN	N0	22 (35,5)	57 (53,3)	0,516
	N1	29 (46,8)	30 (28)	
	N2	11 (17,7)	11 (10,3)	
	N3	0	9 (8,4)	
cM	M0	61 (98,4)	105 (98,1)	0,904
	M1	1 (1,6)	2 (1,9)	
Radicality	R0	62 (100)	107 (100)	0,448
	R1	0	0	

Conclusion: These long term quality of life results in patients where both McKeown and Ivor Lewis esophagectomy are feasible should be considered alongside the oncologic outcomes and postoperative morbidity.