## Does resection of normal appearing omentum influence survival in patients with type 2 endometrial carcinoma?



Tal O, MD, Elyashiv O, MD, Ben Shem E, MD, Peled O, MD, Levy T, MD, MHA



Division of Gynecologic Oncology, Department of Obstetrics and Gynecology, E. Wolfson Medical Center, Holon, Israel, Sackler Faculty of Medicine, Tel Aviv University, Israel

Background: Type 2 endometrial cancer (EC) includes high-grade endometrioid ECs and aggressive histologic subtypes such as serous, clear cell and carcinosarcoma of the endometrium. These tumors have a propensity for intra-abdominal spread, a high recurrence rate, and a poor prognosis. Therefore, the mainstay of treatment has been surgical debulking, which includes hysterectomy, bilateral salpingo-oopherectomy (BSO), lymph node dissection (LND) and omentectomy. However, the benefit of omentectomy, especially in early-stage disease in which gross omental metastasis is not observed, is debatable. Touhami et al <sup>1</sup> have shown that the detection of microscopic disease in radiologically and clinically normal appearing omentum seems to be rare in serous EC. A study by Peled et al<sup>2</sup> has shown that women that were preoperatively diagnosed with endometrioid EC and eventually found to have serous EC, and therefore did not undergo omentectomy, had no difference in overall survival or recurrence rates compared to women who underwent full staging.

Study aim: To determine whether resection of normal appearing omentum influences survival in women with type 2 EC.

Methods: We retrospectively identified cases with type 2 EC at our Gynecologic Oncology Division from 1998 to 2017. Medical records were reviewed for the following information: age at diagnosis, preoperative imaging, operative findings, surgical procedure, final histology with definitive FIGO stage, adjuvant treatment and survival.

	Characteristic	Number of pts (%)		Characteristic	Number of pts (%)	
	Histology			Depth of invasion		
Results: A total of 90 patients with type 2	Serous	39	49%	<50%	36	46%
endometrial cancer were identified, of whom 79	Carcinosarcoma	34	43%	>50%	43	54%
had primary operation. All women underwent at	Clear Cell	6	8%	IVSI	ст	5470
	Total	79	100%	No	Ε.	6906
least hysterectomy with bilateral salpingo-	Median Age			INO	54	00%0
oophorectomy. Patient's clinical and	Serous	73.16 <u>+</u> 7.6	55.08-82.97	Yes	25	32%
histological characteristics, convall on their	Carcinosarcoma	68.14 <u>+</u> 10.7	35.24-84.21	Lymph node		
histological characteristics, as well as their	Clear Cell	78.33 <u>+</u> 17.9	39.72-91.1	metastasis		
pathologic characteristics, are shown in tables	Total	72.2 <u>+</u> 10.1	35.24-91.11	No	40	66%
1 and 2. respectively.	Surgical procedure			Yes	21	34%
	Hysterectomy +	79	100%	Omental metastasi		5174
	BSO			No	10	780%
	Pelvic LND	61	77%	INU	49	7890
Seventeen women (21.5%) were found to have	Omentectomy	63	80%	Yes	14	22%
	Stage					
macroscopic extrauterine disease, hence	l I	32	41%	Table 1 (left): Histolo	gical and (	clinical
omentectomy was part of the operation and	II	5	6%	patient characteristics		
these patients were excluded from evaluation	III	23	29%			
mese panemis were excluded nom evaluation.	IV	19	24%	<i>Table 2 (above)</i> : Pat	nologic ch	aracteristics

The final study group included 62 women with

Omentectomy	63	80%
Stage		
L. L.	32	41%
II.	5	6%
III	23	29%
IV	19	24%

no macroscopic evidence of omental metastasis. 36 patients underwent omentectomy and had no histologic evidence of spread (group 1) compared to 26 women that did not undergo omentectomy (group 2). By multivariate analysis, survival was significantly influenced by stage, deep stromal invasion and lymph-vascular space involvement, but not by omentectomy. However, when only stage I patients (n=32) were analyzed, the median survival of women who did not have omentectomy (n=16) was 7.8 ± 0.4 years while the median survival of the women who underwent omentectomy (n=16) was not yet reached (graph 1).

Graph 1: Kapan-Meier Survival Curve of 32 patients with Stage I type 2 EC; patients in blue (n=16) underwent omentectomy, whereas patients in green (n=16) had no omentectomy performed

**Conclusion:** It appears that the resection of normal appearing omentum later found to have no metastases may improve survival in patients with stage I type 2 aggressive endometrial cancer



1. Touhami O, Trinh X, Gregoire J, et al. Is a More Comprehensive Surgery Necessary in Patients With Uterine Serous Carcinoma? International Journal of Gynecologic Cancer 2015;25:1266-1270

2. Peled Y, Aviram A, Krissi H, et al. Uterine papillary serous carcinoma pre-operatively diagnosed as endometrioid carcinoma: Is omentectomy necessary? Aust New Zeal J Obstet Gynaecol. 2015;55(5):498-502