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Role of CA125 in patients included in the DESKTOP III/ENGOT-ov20 trial.

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Background

Complete resection significantly improves survival in ovarian cancer patients with a platinum sensitive recurrence who fulfil

the AGO score. We assessed the association of levels of CA125 at relapse with surgical and oncological outcome.

Methods

We performed subgroup analyses of DESKTOP III with regard to CA125. CA125 at the time of surgery was classified as normal (Group A: <35 U/ml) versus elevated (Group B: 35 U/ml - 350 U/ml) versus strongly elevated (Group C: > 350 U/ml). We assessed surgical outcome by CA125 and explored the prognostic value of CA125 disease were documented.

Overall survival (OS) is calculated from randomization into DESKTOP III.

Results

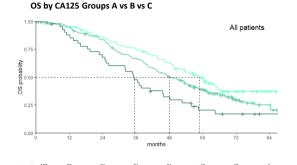
Results: Baseline CA125 was available in 91% (370/407) of randomized patients, 181 randomized to chemotherapy alone and 189 to additional surgery. Median CA125 values and classified cohorts did not differ significantly between patients in the chemotherapy arm vs patients in the surgical arm. The complete resection rate in the 176 patients undergoing surgery was 74% (group A versus B versus C: 83% (48/58) and 72% (74/103) and 53% (8/15) (p=0.053), respectively). There were no relevant differences regarding surgical procedures, but there was a slightly longer duration of surgery (210 vs 223 vs 240 minutes), higher blood loss (195 vs 275 vs 350 ml), higher rate of infections (16 vs 17 vs 47%) in group A vs B vs C. Rate of relaparotomy was low in all cohorts (0%, 6%, and 7%, resp.). Higher CA125 levels were associated with shorter OS in the entire population (median OS: group A 59 months vs group B 48 months, HR 1.26 (95%CI: 0.92-1.71) versus group C 35 months. HR 2.05 (95% CI: 1.33-3.16); log-rank p=0.002). Similarly, in the chemotherapy alone arm (median OS: group A 53 months vs group B 48 months, HR 1.24 (95% CI: 0.81-1.90) versus group C 35 months, HR 1.90 (95% CI: 1.09-3.30)) and in the surgical arm (median OS: group A 61 months vs group B 52 months, HR 1.32 (95% CI: 0.84-2.05) versus group C 35 months, HR 2.06 (95% CI: 1.00-4.26)). Median OS in group C from surgical arm favoured complete resection compared to incomplete resection (HR 0.22 (95% CI: 0.04-1.31); log-rank p=0.049).

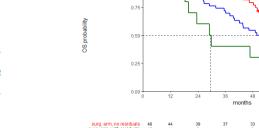
Surgical details	CA125 < 35	CA125 = 35-350	CA125 > 35	Total	
	Pts (%)	Pts (%)	Pts (%)	Pts (%)	
n	58	103	15	176	
Peritonectomy	20 (34%)	39 (38%)	3 (20%)	62 (35%)	
Splenectomy	7 (12%)	15 (15%)	1 (7%)	23 (13%)	
Partial hepatectomy	2 (3%)	5 (5%)	1 (7%)	8 (5%)	
Large bowel resection	12 (21%)	23 (22%)	4 (27%)	39 (22%)	
Stoma diversion					
temporary	2 (3%)	4 (4%)	0 (0%)	6 (3%)	
permanent	2 (3%)	4 (4%)	0 (0%)	6 (3%)	
Surgical treatment burden	Pts (%)	Pts (%)	Pts (%)	Pts (%)	
Duration (min; median, IQR)	210 (124-300)	223 (176-290)	240 (111-372)	222 (150-300)	
Blood loss (ml; median, IQR)	195 (50-400)	275 (50-500)	350 (84-800)	250 (50-500)	
RBC transfusion rate	7 (12%)	20 (19%)	3 (10%)	30 (17%)	
post-OP fever > 38.5°C	2 (3%)	4 (4%)	2 (13%)	8 (5%)	
Infections requiring antibiotic treatment	9 (16%)	17 (17%)	7 (47%)	33 (19%)	
Re-laparotomy rate	0 (0%)	6 (6%)	1 (7%)	7 (4%)	
Surgical outcome	Pts (%)	Pts (%)	Pts (%)	Pts (%)	
30 days mortality	0 -	0 -	0 -	0 -	
90 days mortality	0 -	0 -	0 -	0 -	
Incomplete resection					
 Residual disease > 10 mm 	3 (5%)	12 (12%)	4 (27%)	19 (11%)	
 Residual disease 1- 10 mm 	6 (10%)	12 (12%)	2 (13%)	20 (11%)	
 missing 	1 (2%)	5 (5%)	1 (7%)	7 (4%)	
Macroscopic complete	48 (83%)	74 (72%)	8 (53%)	130 (74%)	

Conclusion

CA 125 levels at the time of relapse are associated with overall survival independent of treatment strategy

In this AGO score preselected population, the benefit from complete resection is independent from CA125.

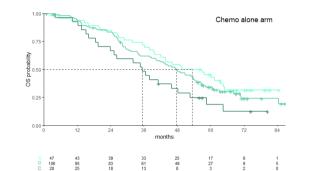




surg, arm, with residuals

1.00

OS by surgical outcome



months

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07

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60 111

ENG

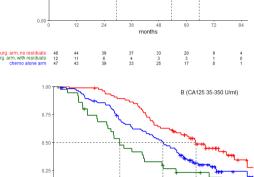
GCIG

Surgery arm

MITC

seco

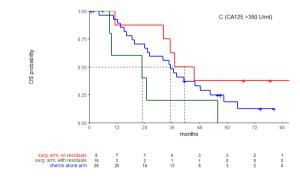
NSGO-CTU



24

months

A (CA125 <35 U/ml)



Reference																	

Contact Information

Harter et al. N Engl J Med 2021;385:2123-31



Poster presentation at European Society of Medical Oncology, Paris Corresponding Author: Fabrice Lecuru fabrice.lecuru@curie.fr





