

**Table S1.** Operative and post-operative details for debulked patients

Characteristic	Overall (n = 158)	Arm A PDS (n = 84)	Arm B NACT-IDS (n = 74)	P
	N.(%)	N. (%)	N. (%)	
Type of Surgery				
Diaphragm	102 (64.6)	81 (96.4)	21 (28.4)	<b>&lt;0.0001</b>
IO thoracic drainage	10 (6.3)	9 (10.7)	1 (1.4)	<b>0.016</b>
Pancreatic tail	5 (3.3)	5 (6.3)	0 (0)	<b>0.033</b>
Splenectomy	61 (38.6)	54 (64.3)	7 (9.5)	<b>&lt;0.0001</b>
Liver resection	25 (15.8)	20 (23.8)	5 (6.8)	<b>0.003</b>
Celiac Nodes	11 (7)	10 (11.9)	1 (1.4)	<b>0.009</b>
Bowel resection	85 (53.8)	71 (84.5)	14 (18.9)	<b>&lt;0.0001</b>
Single	62 (39.2)	52 (61.9)	10 (13.5)	
Multiple	23 (14.6)	19 (22.6)	4 (5.4)	
Oostomy	51 (32.3)	44 (52.4)	7 (9.5)	<b>&lt;0.0001</b>
Estimated blood loss >750 ml	76 (48.1)	42 (50)	34 (45.9)	0.611
Mean hospital stay, d (SD)	11 (9.5)	14.8 (11.3)	6.7 (3.9)	<b>&lt;0.0001</b>

NOTE: Bold font highlight statistically significant differences.

Abbreviations: PDS, Primary debulking surgery; NACT, neoadjuvant chemotherapy; IDS, interval debulking surgery

**Table S2.** Details of post-operative major complications.

Characteristic	Overall	Arm A	Arm B	P
	(n = 158)	PDS (n = 84)	NACT-IDS (n = 74)	
	N.(%)	N. (%)	N. (%)	
<b>Early (<math>\leq 30</math> days) **</b>				
All patients	46 (29.1)	39 (46.4)	7 (9.5)	<b>&lt;0.0001</b>
All events	269 (100)	177 (65.8)	92 (34.2)	
Major events	53 (19.7)	46 (25.9)	7 (7.6)	<b>&lt;0.0001*</b>
Grade III	47 (17.5)	40 (22.6)	7 (7.6)	<b>0.002</b>
Pleural effusion	27 (10.0)	26 (14.7)	1 (1.1)	
Re-laparotomy	6 (2.2)	4 (2.3)	2 (2.1)	
Pancreatic fistula	3 (1.1)	3 (1.7)	1 (1.1)	
Intrabdominal collection drainedpa	3 (1.1)	2 (1.1)	0 (0)	
Wound dehiescence treated with V.A.C.® therapy	2 (0.7)	2 (1.1)	0 (0)	
Respiratory failure	2 (0.7)	1 (0.6)	1 (1.1)	
Biliary fistula	1 (0.4)	1 (0.6)	0 (0)	
Embolization	1 (0.4)	1 (0.6)	0 (0)	
Gastric bleeding	1 (0.4)	0 (0)	1 (1.1)	
Deiescence of the surgical wound	1 (0.4)	0 (0)	1 (1.1)	
Grade IV	3 (1.1)	3 (1.7)	0 (0)	0.209
Organ failure	2 (0.7)	2 (1.1)	0 (0)	
Organ resection	1 (0.4)	1 (0.6)	0 (0)	
Grade V	3 (1.1)	3 (1.7)	0 (0)	0.209
<b>Late (1-6 months)</b>				
All patients	11 (7.0)	10 (11.9)	1 (1.4)	<b>0.009</b>
All events	35 (100)	31 (88.6)	4 (11.4)	
Major events	14 (40.0)	13 (41.9)	1 (25.0)	0.515*
Grade III	7 (20.0)	6 (19.3)	1 (25.0)	0.791
Pleuric effusion	4 (11.4)	3 (9.8)	1 (25.0)	
Abdominal collection	1 (2.9)	1 (3.3)	0 (0)	
Grade IV	3 (8.6)	3 (9.7)	0 (0)	0.588
Cognitive impairment	1 (2.9)	1 (3.3)	0 (0)	
Multiorgan failure	1 (2.9)	1 (3.3)	0 (0)	
Respiratory failure	1 (2.9)	1 (3.3)	0 (0)	
Grade V	4 (11.4)	4 (12.9)	0 (0)	0.455

\* Major (Grade 3, 4 and 5) vs minor (Grade 1 and 2) complications[Strong VE, Selby LV, Sovel M, Disa JJ, Hoskins W, Dematteo R, Scardino P, Jaques DP. Development and assessment of Memorial Sloan Kettering Cancer Center's Surgical Secondary Events grading system. *Ann Surg Oncol.* 2015 Apr;22(4):1061-7].

\*\*In case of multiple procedure for single complication only last procedure has been considered.

NOTE: Bold font highlights statistically significant differences.

Rates are calculated on All events.

**Table S3.** Characteristic of patients dead for surgical complications

ID	Age (years)	ECOG	Body mass Index (kg/m <sup>2</sup> )	More than 3 comorbidities	Surgical complexity score	Cause of death	early/late
1	72	0	25.0	Yes	3	Heart failure	early
2	67	1	21.8	Yes	3	Respiratory failure	early
3	74	2	21.8	Yes	3	Hemorrhagic shock	early
4	40	2	19.9	No	3	Sepsis	late
5	54	1	18.4	No	3	Respiratory failure	late
6	60	1	19.9	No	3	Multiorgan failure	late
7	55	1	34.6	No	3	Multiorgan failure	late