

Appendix 1. Wound Complication Subtypes (Secondary Endpoint)

	NPWT (n=254)	Standard Gauze (n=251)	OR (90% CI)
Wound Infection	16 (6)	17 (7)	1.08 (0.60-1.96)
Wound Separation	30 (12)	25 (10)	0.83 (0.51-1.32)
Wound Seroma	11 (4)	14 (6)	1.30 (0.66-2.61)
Wound Hematoma	2 (0.8)	1 (0.4)	0.50 (0.04-3.56)

Data are presented as counts n (%)

npwt=negative pressure wound therapy; or = odds ratio (gauze vs npwt [reference]); ci=confidence interval

Appendix 2. Post-hoc Analysis of Association of Clinicopathologic Factors With Wound Complication

	No wound complication (n=420)	Wound complication (n=85)	P
Age, years	61 (20-87)	61 (32-85)	0.87
<i>Missing data (N)</i>	4	0	
BMI, kg/m²	26 (17-60)	32 (17-56)	<0.001
Morbidly obese			<0.001
BMI <40 kg/m ²	401 (95)	72 (85)	
BMI ≥40 kg/m ²	19 (5)	13 (15)	
Preoperative hemoglobin, g/dL	12.0 (7.5-16.4)	12.3 (7.6-15.6)	0.51
<i>Missing data (N)</i>	3	0	
Preoperative serum albumin, g/dL	4.1 (1.3-5.3)	4.1 (0.9-4.6)	0.09
<i>Missing data (N)</i>	8	0	
Hypertension	134 (32)	37 (44)	0.059
<i>Missing data (N)</i>	5	0	
Diabetes mellitus	41 (10)	15 (18)	0.056
<i>Missing data (N)</i>	4	0	
Vascular disease	12 (3)	7 (8)	0.028
<i>Missing data (N)</i>	4	0	
Pulmonary disease	35 (8)	10 (12)	0.30
<i>Missing data (N)</i>	4	0	
Smoking history			0.66
Never	248 (60)	47 (55)	
Current	18 (4)	3 (3.5)	
Former	149 (36)	35 (41)	
<i>Missing data (N)</i>	5	0	
Current alcohol use	202 (49)	38 (46)	0.63
<i>Missing data (N)</i>	8	2	
Prior abdominal surgery			0.86
Laparotomy	205 (77)	42 (79)	
Minimally invasive	60 (23)	11 (21)	
<i>Missing data (N)</i>	155	32	
Prior radiation therapy use	9 (2)	6 (7)	0.028
<i>Missing data (N)</i>	5	0	

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Prior chemotherapy use	139 (34)	25 (29)	0.53
Missing data (N)	6	0	
Cancer diagnosis*			<0.001
Ovarian cancer	355 (86)	55 (68)	
Non-ovarian cancer	59 (14)	26 (32)	
Missing data (N)	6	4	
Presence of ascites	71 (17)	18 (21)	0.35
Missing data (N)	4	0	
Bowel resection performed	148 (35)	36 (42)	0.27
Missing data (N)	3	0	
Operative time, min	269 (56-786)	272 (76-701)	0.71
Missing data (N)	4	0	
EBL, mL	300 (5-3300)	400 (25-3200)	0.46
Missing data (N)	4	0	
Transfusion given	60 (14)	17 (20)	0.19
Missing data (N)	5	0	
Wound classification			0.86
Clean	23 (5.5)	4 (5)	
Clean-contaminated	386 (93)	79 (93)	
Contaminated/Dirty	7 (2)	2 (2)	
Missing data (N)	4	0	

Hypothesis-generating analyses without correction for repeated testing.

Data represented as median (range) or n (% of the column total)

Only the “yes” counts shown for variables with “yes/no” counts

*Benign cases not included due to small number (n=10)

BMI=body mass index; EBL=estimated blood loss

Appendix 3. Post-hoc Logistic Regression Analysis to Predict Primary Objective of Wound Complication

	Univariate OR (95% CI)	Multivariate OR (95% CI)
Age, years*	1.0 (0.98-1.02)	
BMI, kg/m²*	1.11 (1.07-1.14)	1.10 (1.06-1.14)
Morbidly obese BMI <40 kg/m ² BMI ≥40 kg/m ²	referent 3.81 (1.77-8.00)	
Preoperative hemoglobin, g/dL*	1.03 (0.91-1.18)	
Preoperative serum albumin, g/dL*	0.64 (0.40-1.05)	
Hypertension (yes vs. no)	1.62(1.00-2.60)	0.99 (0.57-1.69)
Diabetes mellitus (yes vs. no)	1.96 (1.00-3.67)	1.34 (0.63-2.76)
Vascular disease (yes vs. no)	3.02 (1.09-7.76)	1.72 (0.54-4.96)
Pulmonary disease	1.45 (0.66-2.96)	
Smoking history Never Current Former	referent 0.88 (0.20-2.73) 1.24 (0.76-2.00)	
Current alcohol use (yes vs. no)	0.88 (0.55-1.41)	
Prior abdominal surgery Laparotomy Minimally invasive	referent 0.89 (0.42-1.79)	
Prior radiation therapy use (yes vs. no)	3.43 (1.12-9.77)	2.27 (0.64-7.48)
Prior chemotherapy use (yes vs. no)	0.82 (0.49-1.36)	
Cancer diagnosis Ovarian cancer Non-ovarian cancer	referent 2.84 (1.64-4.86)	referent 1.77 (0.94-3.24)
Presence of ascites (yes vs. no)	1.31 (0.71-2.29)	
Bowel resection performed (yes vs. no)	1.34 (0.83-2.14)	
Operative time (10 min increase)	1.01 (0.99-1.02)	
EBL (1000 mL increase)	1.34 (0.81-2.12)	
Transfusion given (yes vs. no)	1.48 (0.79-2.64)	
Wound classification Clean Clean-contaminated Contaminated/Dirty	referent 1.18 (0.44-4.10) 1.64 (0.20-10.5)	

Continuous BMI (1 unit increase) used in multivariate model as more informative

Multivariate model N=489

*based on 1 unit increase

BMI=body mass index

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