

**Supplementary Table 1 Univariate analysis of patient and procedure-related determinants of bile leak (*n* = 55, 5.7%) in patients undergoing resection of metastatic neuroendocrine tumors to the liver**

<b>Variable</b>	<b>Odds ratio</b>	<b>95% CI</b>	<b>P value</b>
Intraoperative ablation	0.76	0.41, 1.41	0.38
Age	0.98	0.96, 1.00	0.089
Sex	1.16	0.67, 2.01	0.59
Race group			
Black/ African American	0.38	0.09, 1.60	0.19
Other	0.90	0.21, 3.86	0.88
Not reported	0.91	0.44, 1.92	0.81
Ethnic group			
Hispanic	0.97	0.23, 4.17	0.97
Not reported	0.84	0.37 1.89	0.67
Wound classification			
I	2.02	0.62, 6.63	0.24
II	4.39	1.00, 19.25	0.050
III/IV	4.17	0.39, 44.80	0.24
BMI	0.98	0.94, 1.03	0.41
Obese (BMI>30)	1.18	0.68, 2.06	0.56
Diabetes	0.44	0.17, 1.13	0.089
Steroid Use	0.97	0.23, 4.13	0.96
Operative approach			
Any MIS	0.62	0.24, 1.58	0.31
Unplanned open	1.44	0.42, 4.85	0.56
Neoadjuvant chemotherapy			
Pre op systemic	1.64	0.71, 3.78	0.25
All other	1.26	0.55, 2.88	0.59
Number of mets resected			
3 - 4	0.52	0.21, 1.28	0.16
5 - 6	0.95	0.36, 2.54	0.92

7 - 8	0.51	0.12, 2.19	0.36
> 8	1.36	0.64, 2.89	0.42
Size of lesion			
2-5 cm	1.30	0.60, 2.81	0.50
> 5cm	2.15	1.00, 4.65	0.050
Extent of resection			
Total left lobectomy	0.89	0.26, 3.07	0.85
Trisegmentectomy	1.32	0.41, 4.23	0.64
Partial lobectomy	0.79	0.36, 1.73	0.55

CI: Confidence interval; MIS: Minimally invasive surgery; \* indicates significance at  $p < 0.05$  level.

**Supplementary Table 2 Univariate analysis of patient and procedure-related determinants of readmission ( $n = 107, 11.7\%$ ) in patients undergoing resection of metastatic neuroendocrine tumors to the liver**

Variable	Odds ratio	95% CI	P value
Intraoperative ablation	1.05	0.68, 1.62	0.83
Age	0.97	0.95, 0.98	<b>&lt;0.001*</b>
Sex	1.21	0.81, 1.82	0.35
Race group			
Black/African American	0.80	0.37, 1.71	0.56
Other	0.67	0.20, 2.24	0.52
Not reported	0.70	0.39, 1.27	0.25
Ethnic group			
Hispanic	1.85	0.79, 4.34	0.16
Not reported	0.51	0.25, 1.04	0.066
Wound classification			
I	1.12	0.56, 2.22	0.75
II	2.49	0.93, 6.64	0.069
III/IV	2.69	0.49, 14.72	0.26
BMI	1.01	0.97, 1.04	0.77
Obese (BMI>30)	1.42	0.94, 2.13	0.94

Diabetes	1.08	0.64, 1.81	0.78
Steroid Use	1.00	0.35, 2.90	1.00
Operative approach			
Any MIS	0.86	0.47, 1.59	0.64
Unplanned open	1.61	0.65, 3.97	0.30
Neoadjuvant chemotherapy			
Pre op systemic	1.55	0.82, 2.93	0.17
All other	0.97	0.50, 1.88	0.92
Number of mets resected			
3 - 4	0.76	0.43, 1.34	0.34
5 - 6	0.76	0.35, 1.67	0.50
7 - 8	0.63	0.24, 1.65	0.35
> 8	1.03	0.56, 1.89	0.93
Size of lesion			
2-5 cm	0.89	0.55, 1.44	0.63
> 5cm	0.79	0.46, 1.37	0.41
Extent of resection			
Total left lobectomy	1.74	0.70, 4.34	0.24
Trisegmentectomy	1.36	0.50, 3.71	0.55
Partial lobectomy	1.22	0.63, 2.37	0.56

CI: Confidence interval; MIS: Minimally invasive surgery; \* indicates significance at  $p < 0.05$ .

**Supplementary Table 3 Univariate analysis of patient and procedure-related determinants of significant bleeding ( $n = 150, 15.5\%$ ) in patients undergoing resection of metastatic neuroendocrine tumors to the liver**

Variable	Odds ratio	95% CI	P value
Intraoperative ablation	0.59	0.39, 0.89	<b>0.011*</b>
Age	0.99	0.97, 1.00	0.14
Sex	1.41	0.99, 2.00	0.057
Race group			
Black/ African American	1.5	0.85, 2.66	0.17

Other	1.91	0.87, 4.18	0.11
Not reported	0.91	0.55, 1.49	0.70
Ethnic group			
Hispanic	1.30	0.56, 3.04	0.54
Not reported	0.88	0.53, 1.46	0.62
Wound classification			
I	1.22	0.66, 2.25	0.53
II	3.38	1.43, 8.01	<b>0.006*</b>
III/IV	3.5	0.78, 15.73	0.10
BMI			
Obese (BMI>30)	0.76	0.52, 1.10	0.15
Diabetes	1.20	0.77, 1.86	0.42
Steroid Use	1.59	0.71, 3.55	0.26
Operative approach			
Any MIS	0.45	0.24, 0.86	<b>0.015*</b>
Unplanned open	1.21	0.52, 2.83	0.66
Neoadjuvant chemotherapy			
Pre op systemic	2.55	1.52, 4.27	<b>&lt;0.001*</b>
All other	1.37	0.80, 2.34	0.25
Number of mets resected			
3 - 4	0.78	0.46, 1.30	0.34
5 - 6	0.59	0.27, 1.27	0.18
7 - 8	0.94	0.44, 2.00	0.88
> 8	1.53	0.93, 2.53	0.097
Size of lesion			
2-5 cm	2.56	1.33, 4.92	<b>0.005*</b>
> 5cm	8.05	4.25, 15.22	<b>&lt;0.001*</b>
Extent of resection			
Total left lobectomy	0.79	0.38, 1.66	0.534
Trisegmentectomy	0.95	0.45, 2.01	0.89
Partial lobectomy	0.50	0.31, 0.81	<b>0.005*</b>

CI: Confidence interval; MIS: Minimally invasive surgery; \* indicates significance at  $p < 0.05$ .

**Supplementary Table 4 Univariate analysis of patient and procedure-related determinants of organ space surgical site infection ( $n = 78$ , 8.1%) in patients undergoing resection of metastatic neuroendocrine tumors to the liver**

Variable	Odds ratio	95% CI	P value
Intraoperative ablation	1.45	0.90, 2.33	0.13
Age	0.99	0.97, 1.01	0.39
Sex	0.96	0.61, 1.53	0.88
Race group			
Black/African American	0.57	0.20, 1.60	0.29
Other	1.00	0.30, 3.38	0.99
Not reported	1.05	0.57, 1.94	0.87
Ethnic group			
Hispanic	3.97	1.79, 8.81	<b>0.001*</b>
Not reported	0.71	0.33, 1.51	0.37
Wound classification			
I	1.21	0.54, 2.71	0.65
II	1.82	0.55, 6.10	0.33
III/IV	1.73	0.19, 15.88	0.63
BMI	0.99	0.96, 1.03	0.74
Obese (BMI>30)	1.09	0.68, 1.76	0.71
Diabetes	1.33	0.76, 2.34	0.33
Steroid Use	1.89	0.71, 5.02	0.20
Operative approach			
Any MIS	0.41	0.16, 1.03	0.058
Unplanned open	1.32	0.45, 3.83	0.62
Neoadjuvant chemotherapy			
Pre op systemic	1.86	0.93, 3.70	0.077
All other	0.99	0.46, 2.14	0.99
Number of mets resected			

3 – 4	0.73	0.35, 1.50	0.39
5 – 6	0.78	0.30, 2.06	0.62
7 – 8	1.32	0.53, 3.27	0.56
> 8	2.16	1.18, 3.98	<b>0.013*</b>
Size of lesion			
2-5 cm	1.20	0.67, 2.14	0.53
> 5cm	0.88	0.45, 1.72	0.71
Extent of resection			
Total left lobectomy	2.22	0.71, 6.89	0.17
Trisegmentectomy	0.68	0.13, 3.47	0.64
Partial lobectomy	1.82	0.77, 4.30	0.17

CI: Confidence interval; MIS: Minimally invasive surgery; \* indicates significance at  $p < 0.05$ .

**Supplementary Table 5 Univariate analysis of patient and procedure-related determinants of any surgical site infection ( $n = 117, 12.1\%$ ) in patients undergoing resection of metastatic neuroendocrine tumors to the liver**

Variable	Odds ratio	95% CI	P value
Intraoperative ablation	1.14	0.75, 1.72	0.54
Age	0.99	0.97, 1.00	0.13
Sex	0.98	0.67, 1.45	0.93
Race group			
Black/ African American	0.47	0.19, 1.20	0.12
Other	0.91	0.31, 2.64	0.86
Not reported	1.34	0.82, 2.17	0.24
Ethnic group			
Hispanic	2.68	1.22, 5.89	<b>0.014*</b>
Not reported	1.38	0.83, 2.32	0.21
Wound classification			
I	1.16	0.60, 2.25	0.65
II	1.64	0.59, 4.57	0.34

III/IV	1.06	0.12, 9.26	0.96
BMI	1.02	0.99, 1.05	0.18
Obese (BMI>30)	1.40	0.95, 2.07	0.092
Diabetes	1.31	0.81, 2.11	0.27
Steroid Use	1.48	0.60, 3.62	0.40
Operative approach			
Any MIS	0.36	0.16, 0.80	<b>0.012*</b>
Unplanned open	1.06	0.40, 2.79	0.91
Neoadjuvant chemotherapy			
Pre op systemic	1.20	0.63, 2.29	0.58
All other	0.66	0.32, 1.35	0.25
Number of mets resected			
3 - 4	1.15	0.67, 1.96	0.61
5 - 6	1.12	0.54, 2.30	0.77
7 - 8	1.05	0.45, 2.42	0.92
> 8	1.84	1.06, 3.19	<b>0.029*</b>
Size of lesion			
2-5 cm	1.42	0.86, 2.34	0.17
> 5cm	1.18	0.68, 2.06	0.56
Extent of resection			
Total left lobectomy	1.12	0.44, 2.85	0.82
Trisegmentectomy	0.61	0.19, 2.00	0.41
Partial lobectomy	1.20	0.65, 2.23	0.56

CI: Confidence interval; MIS: Minimally invasive surgery; \* indicates significance at p<0.05.