

## Appendix A: Table Summarizing Findings on Risk Factors and Outcomes

<b>Gangrene/ Perforation at POA surgery</b>	<b>Crude odds ratio</b>	<b>(95% CI)</b>	<b>P-value</b>
Age at index operation	0.99	0.98 to 1.01	0.981
Less than 1 month	(reference)	-	-
1 month to less than 1 year	0.83	0.18 to 3.88	0.816
1 year and older	0.75	0.20 to 2.83	0.671
Age at post-operative adhesion	0.99	0.98 to 1.01	0.839
Sex			
Male	(reference)	-	-
Female	1.56	0.54 to 4.50	0.411
Number of prior operations (before POA)	0.93	0.32 to 2.75	0.902
Index operation urgency			
Emergency	(reference)	-	-
Elective	0.79	0.23 to 2.70	0.712
Peritonitis at index operation	1.98	0.74 to 5.31	0.175
Stoma creation at index operation	2.00	0.68 to 5.89	0.208
Interval between index and POA (months)	0.99	0.98 to 1.01	0.487
Less than 1 month	(reference)	-	-
More than or equal to 1 month	0.77	0.21 to 2.78	0.693
<b>Resection at POA Surgery</b>	<b>Crude odds ratio</b>	<b>(95% CI)</b>	<b>P-value</b>
Age at index operation	0.99	0.98 to 1.01	0.678
Less than 1 month	(reference)	-	-
1 month to less than 1 year	0.83	0.18 to 3.88	0.816
1 year and older	0.75	0.20 to 2.83	0.671
Age at post-operative adhesion	0.99	0.98 to 1.01	0.839
Sex			
Male	(reference)	-	-
Female	1.56	0.54 to 4.50	0.411
Number of prior operations (before POA)	0.93	0.32 to 2.75	0.902
Index operation urgency			
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Elective	0.79	0.23 to 2.70	0.712
Peritonitis at index operation	1.98	0.74 to 5.31	0.175
Stoma creation at index operation	2.00	0.68 to 5.89	0.208
Interval between index and POA (months)	0.99	0.98 to 1.01	0.487
Less than 1 month	(reference)	-	-
More than or equal to 1 month	0.77	0.21 to 2.78	0.693
<b>Stoma Creation during POA Surgery</b>	<b>Crude odds ratio</b>	<b>(95% CI)</b>	<b>P-value</b>
Age at index operation	0.99	0.98 to 1.01	0.349
Less than 1 month	(reference)	-	-
1 month to less than 1 year	0.60	0.14 to 2.66	0.502
1 year and older	0.48	0.13 to 1.74	0.265
Age at post-operative adhesion	0.99	0.98 to 1.01	0.185
Sex			
Male	(reference)	-	-
Female	1.89	0.67 to 5.32	0.226
Number of prior operations (before POA)	0.89	0.30 to 2.65	0.840
Index operation urgency			
Emergency	(reference)	-	-
Elective	0.74	0.22 to 2.49	0.622
Peritonitis at index operation	1.38	0.52 to 3.64	0.517
Interval between index and POA (months)	0.98	0.95 to 1.01	0.143
Less than 1 month	(reference)	-	-
More than or equal to 1 month	2.15	0.44 to 10.51	0.344

<b>Morbidity</b>	<b>Crude odds ratio</b>	<b>(95% CI)</b>	<b>P-value</b>
Age at index operation	0.99	0.97 to 1.01	0.094
Less than 1 month	(reference)	-	-
1 month to less than 1 year	0.65	0.11 to 3.80	0.630
1 year and older	0.22	0.04 to 1.26	0.090
Age at post-operative adhesion	0.99	0.97 to 1.01	0.058
Sex			
Male	(reference)	-	-
Female	0.32	0.04 to 2.71	0.296
Number of prior operations (before POA)	1.33	0.39 to 4.53	0.647
Index operation urgency			
Emergency	(reference)	-	-
Elective	1.02	0.19 to 5.32	0.985
Peritonitis at index operation	1.25	0.31 to 5.01	0.753
<b>Stoma creation at index operation</b>	<b>5.16</b>	<b>1.24 to 21.41</b>	<b>0.024</b>
Interval between index and POA (months)	0.98	0.95 to 1.02	0.405
Less than 1 month	(reference)	-	-
More than or equal to 1 month	1.63	0.19 to 14.13	0.660
<b>Presence of gangrene or perforation at POA surgery</b>	<b>42.46</b>	<b>4.89 to 368.8</b>	<b>0.001</b>
<b>Resection during POA surgery</b>	<b>5.16</b>	<b>1.24 to 21.41</b>	<b>0.024</b>
<b>Stoma creation at POA surgery</b>	<b>5.16</b>	<b>1.24 to 21.41</b>	<b>0.024</b>
<b>Mortality</b>	<b>Crude odds ratio</b>	<b>(95% CI)</b>	<b>P-value</b>
Age at index operation	0.93	0.84 to 1.04	0.192
Less than 1 month	(reference)	-	-
<b>1 month to less than 1 year</b>	<b>0.09</b>	<b>0.01 to 0.93</b>	<b>0.044</b>
<b>1 year and older</b>	<b>0.04</b>	<b>0.01 to 0.34</b>	<b>0.004</b>
Age at post-operative adhesion	0.95	0.90 to 1.01	0.079
Sex			
Male	(reference)	-	-
Female	1.13	0.20 to 6.24	0.891
Number of prior operations (before POA)	-	-	-
Index operation urgency			
Emergency	(reference)	-	-
Elective	0.57	0.06 to 5.03	0.613
Peritonitis at index operation	0.23	0.03 to 2.03	0.187
<b>Stoma creation at index operation</b>	<b>5.25</b>	<b>1.07 to 25.74</b>	<b>0.041</b>
Interval between index and POA (months)	0.98	0.93 to 1.03	0.386
Less than 1 month	(reference)	-	-
More than or equal to 1 month	-	-	-
<b>Presence of gangrene or perforation at POA surgery</b>	<b>5.25</b>	<b>1.07 to 25.74</b>	<b>0.041</b>
<b>Resection during POA surgery</b>	<b>5.25</b>	<b>1.07 to 25.74</b>	<b>0.041</b>
<b>Stoma creation at POA surgery</b>	<b>5.25</b>	<b>1.07 to 25.74</b>	<b>0.041</b>
<b>Prolonged Length of Stay (&gt;/= 10 days)</b>	<b>Crude odds ratio</b>	<b>(95% CI)</b>	<b>P-value</b>
Age at index operation	<b>0.9944</b>	<b>0.98 to 1.00</b>	<b>0.043</b>
Less than 1 month	(reference)	-	-
1 month to less than 1 year	0.41	0.09 to 1.94	0.261
1 year and older	0.32	0.08 to 1.28	0.106
Age at post-operative adhesion	0.9926	0.98 to 1.00	<b>0.007</b>
Sex			
Male	(reference)	-	-
Female	0.80	0.31 to 2.04	0.637
Number of prior operations (before POA)	1.20	0.47 to 3.04	0.702
Index operation urgency			
Emergency	(reference)	-	-

Elective	0.50	0.18 to 1.37	0.178
Peritonitis at index operation	0.69	0.29 to 1.62	0.393
Stoma creation at index operation	2.11	0.73 to 6.06	0.168
Interval between index and POA (months)	0.99	0.98 to 1.01	0.159
Less than 1 month	(reference)	-	-
More than or equal to 1 month	0.78	0.24 to 2.56	0.679
Presence of gangrene or perforation at POA surgery	2.11	0.73 to 6.06	0.168
Resection during POA surgery	2.85	0.94 to 8.65	0.064
Stoma creation at index operation	2.11	0.73 to 6.06	0.168