

Supplementary table 1. Univariable and multivariable analyses of total postoperative complication rate after backward elimination by forcing the inclusion of clinically relevant POAP

Variable	Univariable		Multivariable	
	Odds ratio (95% confidence interval)	<i>P</i> value	Odds ratio (95% confidence interval)	<i>P</i> value
Clinically relevant POAP	0.888 (0.520-1.516)	0.662	0.897 (0.517-1.555)	0.697
Age	1.015 (0.988-1.044)	0.280		
Sex	0.867 (0.518-1.453)	0.589		
BMI	0.954 (0.877-1.036)	0.264		
ASA score (Ref: I)		0.151		0.141
	II	1.383 (0.617-3.159)	0.432	1.440 (0.637-3.318)
	III	3.125 (0.959-11.130)	0.066	3.238 (0.988-11.597)
Preoperative CEA	1.001 (1.000-1.002)	0.163		
Preoperative CA19-9	0.999 (0.262-3.820)	0.998		
Preoperative biliary / pancreatic drainage	0.883 (0.532-1.460)	0.627	0.871 (0.518-1.462)	0.602
Preoperative cholangitis	0.891 (0.480-1.657)	0.715		
ERAS group	0.907 (0.549-1.497)	0.701		
Preoperative pancreatic duct size	0.982 (0.866-1.112)	0.771		
Pancreatic texture	0.806 (0.468-1.382)	0.435		
Pancreaticojejunostomy method	1.358 (0.591-3.246)	0.477		
Tumor location (Ref: Pancreas)		0.718		
	Ampulla of Vater	0.686 (0.332-1.400)	0.302	
	Distal common bile duct	1.034 (0.570-1.884)	0.913	
	Duodenum	1.118 (0.367-3.572)	0.845	
Cancer	1.001 (0.560-1.783)	0.996		
Resection margin status	1.484 (0.601-3.881)	0.400		

Supplementary table 2. Univariable and multivariable analyses of severe complications (Clavien-Dindo \geq IIIa) rate after backward elimination by forcing the inclusion of clinically relevant POAP

Variable	Univariable		Multivariable	
	Odds ratio (95% confidence interval)	<i>P</i> value	Odds ratio (95% confidence interval)	<i>P</i> value
Clinically relevant POAP	0.788 (0.295-1.899)	0.611	0.854 (0.306-2.182)	0.750
Age	1.034 (0.987-1.089)	0.178		
Sex	0.477 (0.168-1.179)	0.130	0.331 (0.104-0.939)	0.046
BMI	1.003 (0.872-1.146)	0.971		
ASA score (Ref: I)		0.044		
	II	NA*		0.989
	III	NA*		0.990
Preoperative CEA	1.000 (0.998-1.002)	0.866		
Preoperative CA19-9	0.661 (0.066-5.778)	0.717	0.205 (0.013-2.757)	0.242
Preoperative biliary / pancreatic drainage	0.735 (0.317-1.692)	0.467	0.601 (0.242-1.456)	0.261
Preoperative cholangitis	0.705 (0.199-1.962)	0.540		
ERAS group	1.569 (0.683-3.752)	0.294		
Preoperative pancreatic duct size	1.018 (0.805-1.208)	0.856		
Pancreaticojejunostomy method	1.233 (0.277-3.940)	0.749		
Pancreatic texture	0.811 (0.343-2.013)	0.637		
Tumor location (Ref: Pancreas)		0.570		
	Ampulla of Vater	0.385 (0.059-1.453)		0.220
	Distal common bile duct	0.856 (0.312-2.148)		0.748
	Duodenum	0.564 (0.030-3.160)		0.594
Cancer	1.390 (0.534-4.330)	0.529		
Resection margin status	3.125 (0.945-8.976)	0.043	3.507 (1.020-10.742)	0.033

* The results could not be calculated due to the existence of zero cells.

Supplementary table 3. Univariable and multivariable analyses of CR-POPF rate after backward elimination by forcing the inclusion of clinically relevant POAP

Variable	Univariable		Multivariable	
	Odds ratio (95% confidence interval)	<i>P</i> value	Odds ratio (95% confidence interval)	<i>P</i> value
Clinically relevant POAP	0.785 (0.244-2.165)	0.656	0.758 (0.216-2.364)	0.644
Age	1.064 (1.003-1.137)	0.051	1.072 (1.006-1.152)	0.043
Sex	0.301 (0.068-0.944)	0.063	0.268 (0.058-0.905)	0.053
BMI	1.017 (0.866-1.186)	0.838		
ASA score (Ref: I)		0.110		
	II	NA*		0.990
	III	NA*		0.990
Preoperative CEA	1.002 (1.000-1.003)	0.016		
Preoperative CA19-9	4.822 (0.414-48.984)	0.192		
Preoperative biliary / pancreatic drainage	3.095 (1.073-11.175)	0.052		
Preoperative cholangitis	0.750 (0.169-2.388)	0.660	0.384 (0.078-1.367)	0.178
ERAS group	0.359 (0.112-0.985)	0.059	0.364 (0.106-1.082)	0.082
Preoperative pancreatic duct size	0.832 (0.555-1.099)	0.298		
Pancreaticojejunostomy method	1.114 (0.169-4.260)	0.890		
Pancreatic texture	0.993 (0.370-2.949)	0.990		
Tumor location (Ref: Pancreas)		0.011		
	Ampulla of Vater	1.263 (0.176-6.125)		0.785
	Distal common bile duct	4.714 (1.633-15.56)		0.006
	Duodenum	NA*		0.989
Cancer	1.746 (0.552-7.726)	0.392		
Resection margin status	3.462 (0.906-10.956)	0.045	2.995 (0.704-11.121)	0.111

* The results could not be calculated due to the existence of zero cells.

Supplementary table 4. Univariable and multivariable analyses of total postoperative complication rate after backward elimination by forcing the inclusion of clinically relevant POAP after excluding patients with high preoperative amylase levels

Variable	Univariable		Multivariable	
	Odds ratio (95% confidence interval)	<i>P</i> value	Odds ratio (95% confidence interval)	<i>P</i> value
Clinically relevant POAP	0.595 (0.504-1.481)	0.595	0.875 (0.502-1.523)	0.653
Age	1.016 (0.988-1.044)	0.275		
Sex	0.847 (0.504-1.423)	0.531		
BMI	0.961 (0.884-1.044)	0.352		
ASA score (Ref: I)		0.149		0.138
	II	1.371 (0.611-3.134)	1.434 (0.634-3.308)	0.388
	III	3.125 (0.959-11.130)	3.254 (0.993-11.657)	0.058
Preoperative CEA	1.001 (1.000-1.002)	0.200		
Preoperative CA19-9	1.015 (0.265-3.897)	0.983		
Preoperative biliary / pancreatic drainage	0.871 (0.524-1.444)	0.593	0.863 (0.511-1.451)	0.578
Preoperative cholangitis	0.899 (0.483-1.672)	0.735		
ERAS group	0.890 (0.537-1.473)	0.650		
Preoperative pancreatic duct size	0.982 (0.866-1.112)	0.768		
Pancreatic texture	0.818 (0.471-1.411)	0.472		
Pancreaticojejunostomy method	1.266 (0.543-3.054)	0.588		
Tumor location (Ref: Pancreas)		0.731		
	Ampulla of Vater	0.684 (0.331-1.398)	0.299	
	Distal common bile duct	1.003 (0.550-1.834)	0.992	
	Duodenum	1.114 (0.366-3.565)	0.849	
Cancer	0.993 (0.555-1.769)	0.980		
Resection margin status	1.579 (0.611-4.383)	0.356		

Supplementary table 5. Univariable and multivariable analyses of severe complications (Clavien-Dindo \geq IIIa) after backward elimination by forcing the inclusion of clinically relevant POAP after excluding patients with high preoperative amylase levels

Variable	Univariable		Multivariable	
	Odds ratio (95% Confidence interval)	<i>P</i> value	Odds ratio (95% Confidence interval)	<i>P</i> value
Clinically relevant POAP	0.789 (0.295-1.900)	0.612	0.819 (0.295-2.067)	0.684
Age	1.034 (0.987-1.089)	0.180	1.036 (0.985-1.096)	0.187
Sex	0.475 (0.168-1.175)	0.128	0.419 (0.144-1.058)	0.081
BMI	1.002 (0.872-1.146)	0.974		
ASA score (Ref: I)		0.042		
	II	NA*		0.989
	III	NA*		0.990
Preoperative CEA	1.000 (0.998-1.002)	0.822		
Preoperative CA19-9	0.655 (0.066-5.703)	0.710		
Preoperative biliary / pancreatic drainage	0.754 (0.325-1.735)	0.504	0.594 (0.238-1.447)	0.253
Preoperative cholangitis	0.693 (0.195-1.929)	0.520		
ERAS group	1.556 (0.677-3.722)	0.304		
Preoperative pancreatic duct size	1.017 (0.805-1.207)	0.862		
Pancreaticojejunostomy method	0.776 (0.328-1.930)	0.571		
Pancreatic texture	1.279 (0.286-4.104)	0.708		
Tumor location (Ref: Pancreas)		0.552		
	Ampulla of Vater	0.379 (0.058-1.427)		0.211
	Distal common bile duct	0.854 (0.311-2.147)		0.746
	Duodenum	0.554 (0.029-3.103)		0.582
Cancer	1.416 (0.544-4.411)	0.506		
Resection margin status	3.554 (1.062-10.413)	0.026	3.999 (1.144-12.558)	0.021

* The results could not be calculated due to the existence of zero cells.

Supplementary table 6. Univariable and multivariable analyses of CR-POPF after backward elimination by forcing the inclusion of clinically relevant POAP after excluding patients with high preoperative amylase levels

Variable	Univariable		Multivariable	
	Odds ratio (95% confidence interval)	<i>P</i> value	Odds ratio (95% confidence interval)	<i>P</i> value
Clinically relevant POAP	0.785 (0.244-2.167)	0.657	0.667 (0.184-2.135)	0.510
Age	1.064 (1.003-1.137)	0.051	1.082 (1.010-1.170)	0.035
Sex	0.300 (0.068-0.941)	0.063	0.198 (0.040-0.710)	0.023
BMI	1.016 (0.865-1.186)	0.839	1.171 (0.961-1.432)	0.116
ASA score (Ref: I)		0.108		
	II	NA*		0.990
	III	NA*		0.990
Preoperative CEA	1.002 (1.000-1.003)	0.014		
Preoperative CA19-9	4.744 (0.409-48.042)	0.195		
Preoperative biliary / pancreatic drainage	3.174 (1.099-11.462)	0.047		
Preoperative cholangitis	0.738 (0.166-2.349)	0.641	0.317 (0.060-1.191)	0.123
ERAS group	0.355 (0.111-0.976)	0.056	0.309 (0.083-0.967)	0.056
Preoperative pancreatic duct size	0.833 (0.557-1.099)	0.298		
Pancreaticojejunostomy method	0.953 (0.355-2.832)	0.926		
Pancreatic texture	1.153 (0.175-4.425)	0.855		
Tumor location (Ref: Pancreas)		0.011		
	Ampulla of Vater	1.242 (0.173-6.024)		0.800
	Distal common bile duct	4.720 (1.633-15.590)		0.006
	Duodenum	NA*		0.989
Cancer	1.777 (0.562-7.867)	0.377		
Resection margin status	3.905 (1.013-12.553)	0.030	4.821 (1.044-20.618)	0.034

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