Supplementary

Study		FOLFIR	INOX	GA					
Study	RPC	BRPC	LAPC or unresectable	RPC	BRPC	LAPC or unresectable			
Wolfe et al., 2020	0%	67.30%	32.70%	0%	67.30%	25%			
Macedo <i>et al.</i> , 2019	21.90%	43.20%	30.60%	23.10%	52.70%	15.40%			
Dhir <i>et al.</i> , 2018	21%	79%	0%	40.80%	59.20%	0%			
Chapman <i>et al.</i> , 2018	0%	68.70%	31.30%	0%	59.50%	40.50%			
Perri <i>et al.</i> , 2020	32%	31%	37%	45%	23%	32%			
Weniger et al., 2020	NA	NA	NA	NA	NA	NA			
Gage <i>et al.</i> , 2019	NA	NA	NA	NA	NA	NA			
Napolitano <i>et al.</i> , 2019	NA	NA	NA	NA	NA	NA			

Table S1 The percentage of patients with different resectability across included studies

GA, gemcitabine and nab-paclitaxel; RPC, resectable pancreatic cancer; BRPC, borderline resectable pancreatic cancer; LAPC, locally advanced pancreatic cancer.

Table S2 Compare positive lymph nodes between two groups

	Lymph nodes positive									
Study	FOL	FIRINOX	GA							
	Numbers	N1 percentage	Numbers	N1 percentage						
Wolfe <i>et al.</i> , 2020	1.3 (0–7)		2.9 (0–11)							
Macedo et al., 2019	1 (0–2)		1 (0–3)							
Dhir <i>et al.</i> , 2018		56%		71.70%						
Chapman <i>et al.</i> , 2018		49%		51%						
Perri <i>et al.</i> , 2020	_	-	_	-						
Weniger <i>et al.</i> , 2020		78.20%		51.20%						
Gage et al., 2019	_	-	_	-						
Napolitano <i>et al.</i> , 2019	_	-	_	-						

*, means the difference is statistically significant. GA, gemcitabine and nab-paclitaxel.

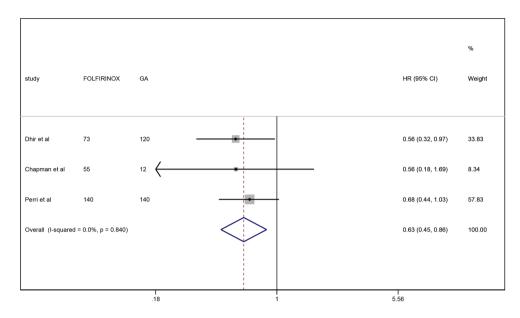


Figure S1 Forest plot showing the confounding factor-adjusted HR for the overall survival interval of patients who received preoperative FOLFIRINOX versus GA.

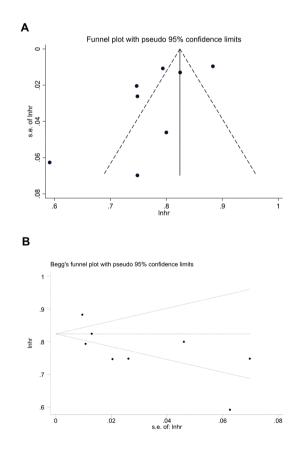


Figure S2 Publication bias detection. (A) Funnel graph. (B) Begg's test.

Α	FOLFIRINOX GA				Odds Ratio	Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	CI M-H, Fixed, 95% CI
Chapman et al, 2018	0	55	1	12	3.5%	0.07 [0.00, 1.80]] ←
Dhir et al, 2018	30	73	37	120	23.7%	1.57 [0.85, 2.87]	j +=-
Gage et al, 2019	37	105	27	175	18.9%	2.98 [1.68, 5.29]] – – –
Macedo et al, 2019	74	183	30	91	34.3%	1.38 [0.81, 2.34]	」
Weniger, 2020	32	103	13	32	19.7%	0.66 [0.29, 1.50]]
Total (95% CI)		519		430	100.0%	1.54 [1.14, 2.08]	◆
Total events	173		108				
Heterogeneity: Chi ² = 1	2.88, df =	4 (P = 0	.01); l² =	69%			
Test for overall effect: 2	Z = 2.82 (P	= 0.005	5)				0.01 0.1 1 10 100

	FOLFIRINOX GA			GA Odds Ratio				(Odds Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C		М-Н	<u>, Fixed, 95%</u>		
Dhir et al, 2018	27	73	37	120	29.3%	1.32 [0.71, 2.43]			_+∎		
Gage et al, 2019	33	105	27	175	23.1%	2.51 [1.40, 4.49]				-	
Macedo et al, 2019	55	183	30	91	46.6%	0.87 [0.51, 1.50]					
Weniger, 2020	17	103	0	32	1.0%	13.15 [0.77, 225.06]				•	
Total (95% Cl)		464		418	100.0%	1.51 [1.09, 2.09]			•		
Total events	132		94								
Heterogeneity: Chi ² = 9 Test for overall effect: 2				8%			⊢ 0.01	0.1	1	10	100

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	FOLFIR	INOX	GA			Odds Ratio	Odds Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl	
Chapman et al, 2018	0	55	1	12	3.1%	0.07 [0.00, 1.80]	←	
Dhir et al, 2018	30	73	37	120	24.7%	1.57 [0.85, 2.87]	+	
Gage et al, 2019	37	105	27	175	25.4%	2.98 [1.68, 5.29]		
Macedo et al, 2019	74	183	30	91	26.3%	1.38 [0.81, 2.34]	+	
Weniger, 2020	32	103	13	32	20.5%	0.66 [0.29, 1.50]		
Total (95% CI)		519		430	100.0%	1.36 [0.74, 2.48]	•	
Total events	173		108					
Heterogeneity: Tau ² = 0	.29; Chi² =	= 12.88,	df = 4 (P	= 0.01)	; I² = 69%			
Test for overall effect: Z	= 0.99 (P	= 0.32)					0.01 0.1 1 10	100

	FOLFIRINOX GA			Odds Ratio				Odds Ratio)		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		М-Н,	Random, 9	5% CI	
Dhir et al, 2018	27	73	37	120	30.8%	1.32 [0.71, 2.43]			_+∎		
Gage et al, 2019	33	105	27	175	31.7%	2.51 [1.40, 4.49]				_	
Macedo et al, 2019	55	183	30	91	32.8%	0.87 [0.51, 1.50]					
Weniger, 2020	17	103	0	32	4.7%	13.15 [0.77, 225.06]			+		
Total (95% CI)		464		418	100.0%	1.58 [0.82, 3.04]					
Total events	132		94								
Heterogeneity: Tau ² = Test for overall effect:			•	= 0.03)	; I² = 68%		⊢ 0.01	0.1	1	10	100

Figure S3 Comparison of four- and five-year survival probability between patients who received preoperative FOLFIRINOX versus GA. (A) Fixed effect model. (B) Random effect model.

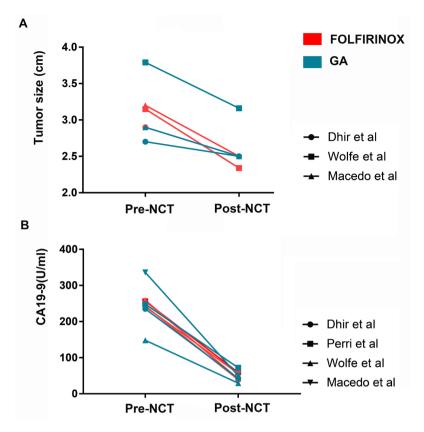


Figure S4 Qualitative analysis presented a similar trend in the variation in (A) tumour size and (B) CA19-9 level between patients who were preoperatively treated with FOLFIRINOX versus GA.