### **Supplemental Online Content**

Nichetti F, Rota S, Ambrosini P, et al. NALIRIFOX vs FOLFIRINOX vs gemcitabine with nab-paclitaxel as first-line chemotherapy for metastatic pancreatic cancer: a systematic review and meta-analysis. *JAMA Netw Open.* 2024;7(1):e2350756. doi:10.1001/jamanetworkopen.2023.50756

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- **eFigure 2.** Reconstructed Kaplan-Meier Plots for Progression-Free Survival and Overall Survival According to First-Line Regimen With Follow-Up Censored at the Time of the Shortest Follow-Up Among Included Studies
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This supplemental material has been provided by the authors to give readers additional information about their work.

### Supplementary Methods:

1. Study selection guidelines

Date of search: September 12<sup>th</sup>, 2023

On **Pubmed** (http://www.ncbi.nlm.nih.gov/pubmed), the following query string was applied: '((2011/01/01:2023/06/01[Date - Publication])) AND ((clinicaltrial[Filter])))) AND (metastatic pancreatic cancer[MeSH Terms])'.

On **Embase** (https://www.embase.com/search/), the following query string was applied: `pancreatic:ti,ab,kw AND cancer:ti,ab,kw AND 'first line':ti,ab,kw AND 'phase 3':ti,ab,kw AND (2011:py OR 2012:py OR 2013:py OR 2015:py OR 2016:py OR 2017:py OR 2018:py OR 2019:py OR 2020:py OR 2021:py OR 2022:py OR 2023:py) AND ('adenocarcinoma'/dm OR 'pancreas adenocarcinoma'/dm OR 'pancreas metastasis'/dm) AND ('Article'/it OR 'Conference Abstract'/it)`.

On **Scopus** (https://www.scopus.com/search/), `( TITLE-ABS-KEY ( pancreatic AND cancer ) AND TITLE-ABS-KEY ( first-line ) AND TITLE-ABS-KEY ( phase AND iii ) OR TITLE-ABS-KEY ( phase 3 ) ) AND PUBYEAR > 2010`.

On **ESMO** meetings resource (<a href="https://oncologypro.esmo.org/">https://oncologypro.esmo.org/</a>), the keywords `phase 3` and `phase III` were searched after the following filters were applied:

- Pancreatic adenocarcinoma as Tumor Site;
- Meeting Resources as **Sections**.

On **ASCO** meetings resource (https://meetings.asco.org/abstracts-presentations/), the keywords `phase 3` and `phase III` were searched after the following filters were applied:

- ASCO annual meeting and Gastrointestinal Cancers Symposium as **Meeting**;
- Cancers 

  Gastrointestinal cancers 
  Pancreatic cancer as Topic.

All results were downloaded, checked for overlap between the different sources, and then hierarchically removed according to the following pre-specified criteria:

- 1) First, the study was removed if not concerning pancreatic cancer;
- 2) if yes, the study was removed if it was not a phase III clinical trial;
- 3) if yes, the study was removed if not concerning first-line treatment;
- 4) if yes, the study was removed if including Gem-NabP, FOLFIRINOX or NALIRIFOX, planned at standard dose density and intensity, at least as one treatment arm;
- 5) if yes, the study was removed if concerning first-line treatment of locally advanced, unresectable but not metastatic pancreatic cancer;
- 6) if yes, the study was removed if PFS and OS Kaplan Meier plots with number-at-risk tables were not available as main or supplementary figures.

#### 2. Statistical methods for individual patient data reconstruction and Cox regression analysis

The IPDfromKM was adopted to reconstruct time-to-event outcomes. IPDfromKM is a graphical algorithm that, starting from point coordinates of each step (i.e. censoring mark or event) and from at-risk-tables in a KM plot, allows to reconstruct individual patient survival data (months and censoring status). Reconstruction accuracy was assessed by a) comparing median OS and PFS (together with 95% confidence intervals, CIs) and hazard ratios (HRs, together with 95% CIs) to original publications; a +/-0.4 months (i.e. < 2 weeks) or +/-0.2 HR difference from the original papers was tolerated as acceptable in reconstruction; b) by inspecting the visual shape of plots and number-at-risk tables of extracted data compared with originals; c) Kolmogorov-Smirnov test and evaluation of root-mean-square error (RMSE) between estimated and read-in survival probabilities.

After applying this procedure to each KM plot of the included trials, patients from different trials treated with the same regimen were merged in unique groups, keeping the annotation of each patient's original trial.

Then, the impact of each arm was investigated with Cox regression models, keeping the NALIRIFOX group as a reference, and reported as hazard ratios (HRs) with 95% confidence intervals (CI). In each Cox model, the clinical trial of origin (e.g. NAPOLI-3, HALO, etc) was included as a random variable (i.e. 1|trial in the R language, using the coxme package) to take into account the potential difference due to patient's belonging to a specific clinical trial and the size of each trial. Further details can be found in the original IPDfromKM paper and in the coxme package manual. Results were validated using a frequentist network meta-analysis using the netmeta R package.

#### 3. List of R packages used for the analysis

Analyses were conducted using the R Statistical language (version 4.2.2; R Core Team, 2022) on macOS Catalina 10.15.7, using the packages

- gridExtra (version 2.3; Auguie B, 2017),
- easyPubMed (version 2.13; Fantini D, 2019),

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- effectsize (version 0.8.3; Ben-Shachar MS et al., 2020),
- epiDisplay (version 3.5.0.2; Chongsuvivatwong V, 2022),
- ggsignif (version 0.6.4; Constantin A, Patil I, 2021),
- janitor (version 2.2.0; Firke S, 2023),
- TrialSize (version 1.4; G.Zhang EZ;VQW;SC;H, 2020),
- Prodlim (version 2023.3.31; Gerds TA, 2023),
- lubridate (version 1.9.2; Grolemund G, Wickham H, 2011),
- Hmisc (version 5.1.0; Harrell Jr F, 2023),
- rms (version 6.7.0; Harrell Jr FE, 2023),
- gt (version 0.9.0; lannone R et al., 2023),
- readbitmap (version 0.1.5; Jefferis G, 2018),
- ehahelper (version 0.3.9999; Junkka J, 2020),
- ggpubr (version 0.6.0; Kassambara A, 2023),
- survminer (version 0.4.9; Kassambara A et al., 2021),
- IPDfromKM (version 0.1.10; Liu N, LeeJ, 2020),
- parameters (version 0.21.1; Lüdecke D et al., 2020),
- performance (version 0.10.4; Lüdecke D et al., 2021),
- easystats (version 0.6.0; Lüdecke D et al., 2022),
- see (version0.8.0; Lüdecke D et al., 2021),
- insight (version 0.19.2; Lüdecke D et al., 2019),
- bayestestR (version 0.13.1; Makowski D et al., 2019),
- modelbased (version 0.8.6; Makowski D et al., 2020),
- report (version 0.5.7; Makowski D et al., 2023),
- correlation (version 0.8.4; MakowskiD et al., 2022),
- tibble (version 3.2.1; Müller K, Wickham H, 2023),
- datawizard (version 0.7.1; Patil I et al., 2022),
- powerSurvEpi (version 0.1.3; Qiu W et al., 2021),
- foreign (version 0.8.84; R Core Team, 2022),

- broom (version 1.0.5; Robinson D et al., 2023),
- hrbrthemes (version 0.8.0; Rudis B, 2020),
- gtsummary (version 1.7.1; Sjoberg D et al., 2021),
- bdsmatrix (version 1.3.6; Therneau T, 2022),
- survival (version 3.5.5; Therneau T, 2023),
- coxme (version 2.2.18.1; Therneau TM, 2022),
- MASS (version 7.3.60; Venables WN, Ripley BD,2002),
- nnet (version 7.3.19; Venables WN, Ripley BD, 2002),
- ggplot2 (version 3.4.2; WickhamH, 2016),
- stringr (version 1.5.0; Wickham H, 2022),
- forcats (version 1.0.0; Wickham H, 2023),
- tidyverse (version 2.0.0; Wickham H et al., 2019),
- dplyr (version 1.1.2; Wickham H et al.,2023),
- purrr (version 1.0.1; Wickham H, Henry L, 2023),
- readr (version 2.1.4; Wickham H et al., 2023),
- tidyr (version 1.3.0; Wickham H et al., 2023),
- broom.mixed (version 0.2.9.4; Bolker B, Robinson D, 2022),
- Ime4 (version 1.1.33; Bates D et al., 2015),
- netmeta (version 2.8.2; Balduzzi S et al., 2023),
- meta (version 6.5.0; Balduzzi S et al., 2019).

# Supplementary Tables:

# Supplementary Table 1: Descriptive summary of included arms of selected clinical trials.

Characteristic	Detail	, <u></u>	NAPOLI-3 (Gem-NabP)	ACCORD 11 (FOLFIRINOX)	MPACT (Gem-NabP)	HALO (Gem-NabP)	RESOLVE (Gem-NabP)	AVENGER500 (FOLFIRINOX)	CanStem111P (Gem-NabP)
Sex	Female	180 (46.7%)	157 (40.6%)	65 (38.0%)	186 (43.2%)	85 (51.5%)	92 (43%)	102 (39%)	263 (46.2%)
Age	Median (min - max)	64 (20 - 85)	65 (36 - 82)	61 (25 - 76)	62 (27 - 86)	62.3 (\)	64 (32 - 85)	63 (29 - 75)	64 (57 - 70)
ECOG PS	0	160 (41.8%)	168 (43.4%)	64 (37.4%)	69 (16.1%)	79 (47.9%)	46 (22.0%)	126 (48.0%)	255 (44.8%)
	1	223 (58.0%)	219 (56.6%)	106 (61.9%)	328 (76.5%)	86 (52.1%)	154 (72.0%)*	136 (52.0%)	314 (55.2%)
CA 19-9		≥37*UNL in 83.8%	≥37*UNL in 81.7%	≥59*UNL in 41.5%	≥59*UNL in 51.9%	21.78 U/ml (mean)	\	≥59*UNL in 42%	≥59*UNL in 44.6%
Liver metastases	Yes	307 (80.2%)	311 (80.4%)	149 (87.6%)	365 (84.7%)	124 (75.2%)	172 (81%)	199 (76.0%)	446 (78.4%)
Median OS	months (95% confidence interval)	11.1 (10.0 - 12.1)	9.2 (8.3 - 10.6)	11.1 (9.0 - 13.1)	8.5 (7.9 - 9.5)	11.5 (9.0 - 12.5)	10.8 (8.9 - 11.7)	11.7 (10.1 - 13.2)	11.7 (10.7 - 12.7)
Median PFS	months (95% confidence interval)	7.4 (6.0 - 7.7)	5.6 (5.3 - 5.8)	6.4 (5.5 - 7.2)	5.5 (4.5 - 5.9)	7.1 (4.8 - 8.3)	6.01 (5.5 - 7.2)	8.0 (7.2 - 11.1)	6.1 (5.6 - 7.1)
Best Response	CR	1 (0.3%)	1 (0.3%)	1 (0.6%)	1 (0.2%)	1 (0.6%)	3 (1.4%)	\	6 (1.1%)
	PR	139 (41.5%)	159 (35.9%)	53 (31.0%)	98 (22.7%)	59 (35.7%)	87 (41.0%)	\	234 (41.9%)
	SD	101 (25.8%)	99 (26.0%)	66 (38.6%)	118 (27.4%)	54 (32.7%)	\	\	185 (33.1%)
	PD	56 (9.9%)	38 (14.5%)	26 (15.2%)	86 (19.9%)	22 (13.3%)		\	62 (11.1%)
	Not Evaluable	90 (22.5%)	86 (23.3%)	25 (14.6%)	128 (29.7%)	29 (17.6%)		\	72 (12.9%)
ORR	yes	41.8%	36.2%	31.6%	23.0%	36.3%	42.3%	34.0%	42.9%

	Not Evaluable	22.5%	23.3%	14.6%	29.7%	17.6%	\	\	12.8%
Grade ≥3 toxicity	Anemia	10.5%	17.8%	7.8%	13.1%	23.9%	16.9%	13.6%	19.7%
	Neutrophil count decreased	23.8%	38.0%	45.7%	37.8%	53.5%	34.9%	20.4%	22.5%
	Febrile Neutropenia	2.4%	2.4%	5.4%	3.3%	6.8%	1.4%	9.4%	6.3%
	Platelet count decreased	1.6%	6.1%	9.1%	12.8%	16.0%	9.9%	13.6%	\
	Diarrhea	20.3%	4.5%	12.7%	5.7%	\	9.0%	19.6%	4.9%
	Peripheal neuropathy	8.7%	7.9%	9.0%	16.6%	\	7.5%	\	\

\* 13 (6%) of patients in RESOLVE had Karnofsky = 70 (i.e. ECOG PS 2).

Abbreviations: CA 19-9: carbohydrate antigen 19.9; CR: complete response; ECOG: eastern ocooperative oncology group; Gem-NabP: gemcitabine plus Nab-Paclitaxel; NALIRIFOX: 5-fluorouracil, leucovorin, liposomal initiotecan and oxaliplatin; ORR: overall response rate; OS: overall survival; PFS: progression free survival; PD: progressive disease; PR: partial response; SD: stable disease; UNL: upper normal limit.

# **Supplementary Table 2**: Risk-of-Bias assessment

	D1	D2	D3	D4	D5	OVERALL
NAPOLI-3						
ACCORD11	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>	<b>②</b>
MPACT	<b>②</b>			<b>②</b>	<b>②</b>	
HALO				<b>②</b>	<b>②</b>	
AVENGER500						
RESOLVE	<b>②</b>	<b>②</b>		<b>②</b>	<b>②</b>	<b>Ø</b>
CanStem111P						

#### DOMAINS:

D1: Bias from the randomization process

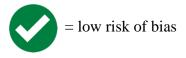
D2: Bias due to deviation from the intended intervention

D3: Bias due to the missing of outcome data

D4: Bias in measurement of the outcome

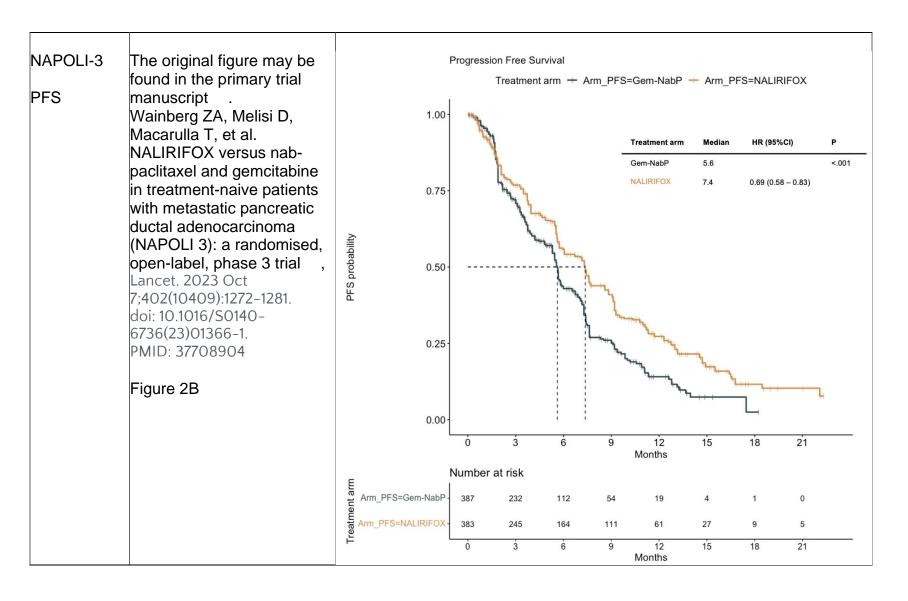
D5: Bias in selection of the reported result

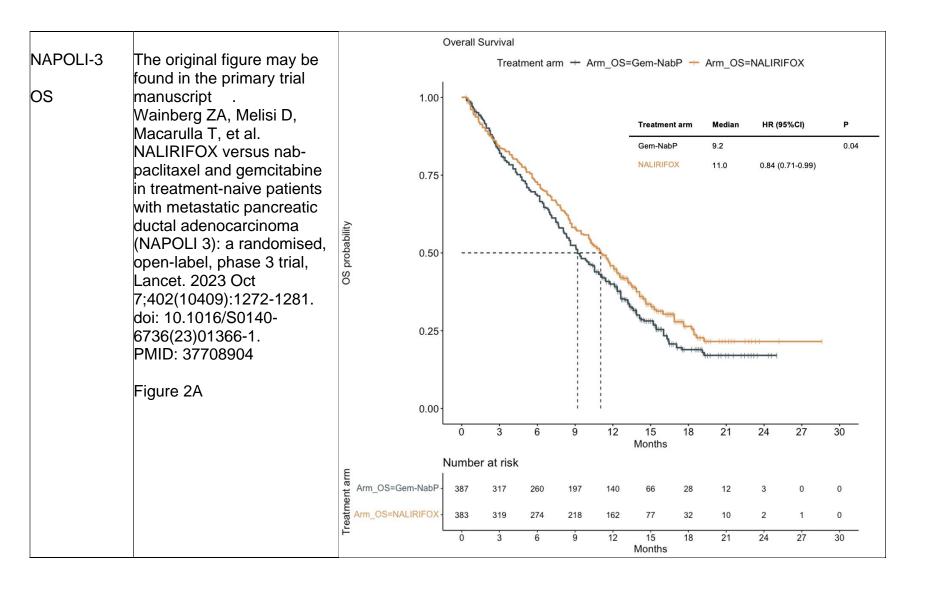
OVERALL: Overall Risk of Bias

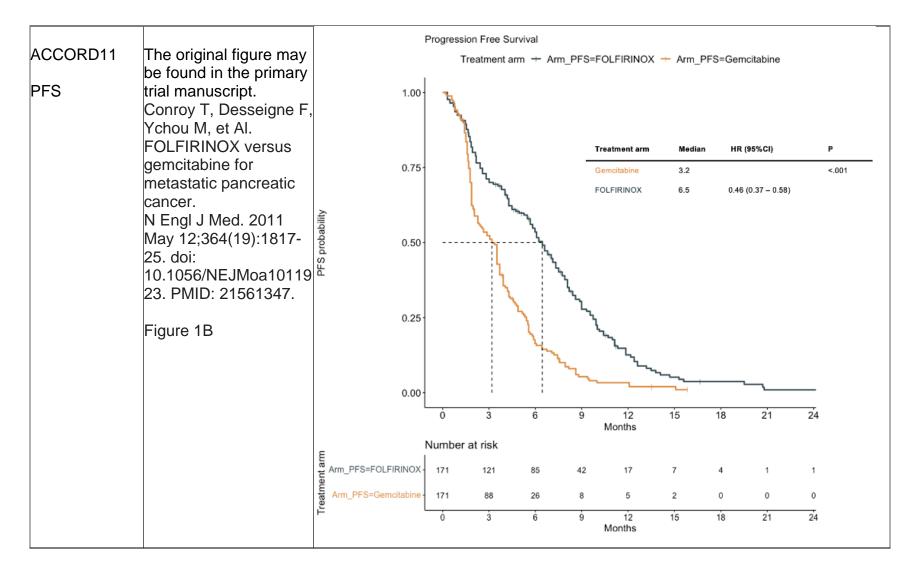


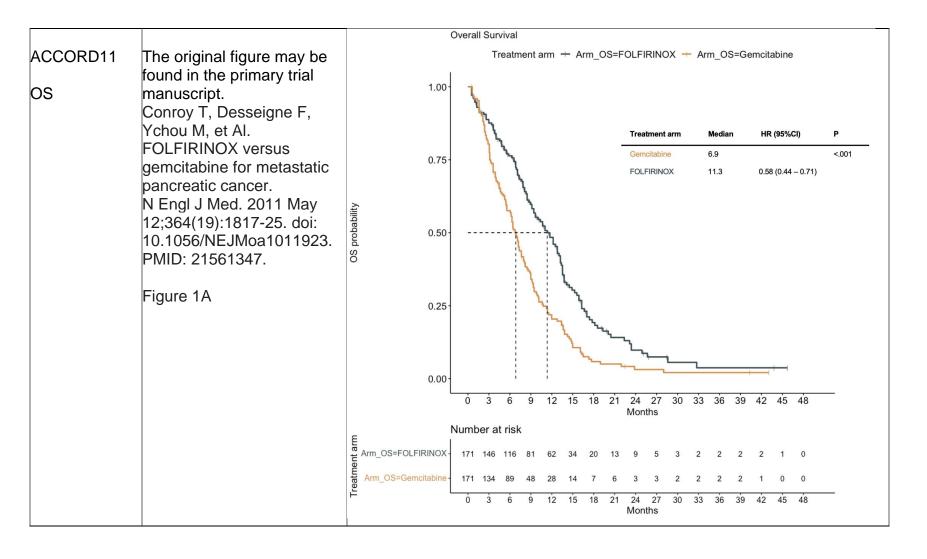
# Supplementary Table 3: Comparisons to original Kaplan Meier plots and survival outcomes.

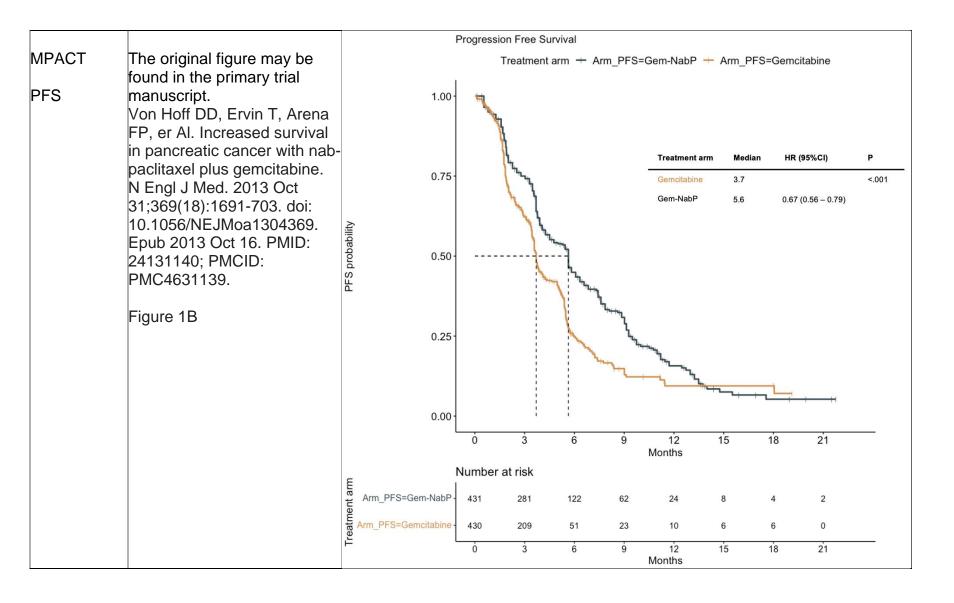
Trial, outcome, Original regimen	Reconstructed Kaplan Meier plots	
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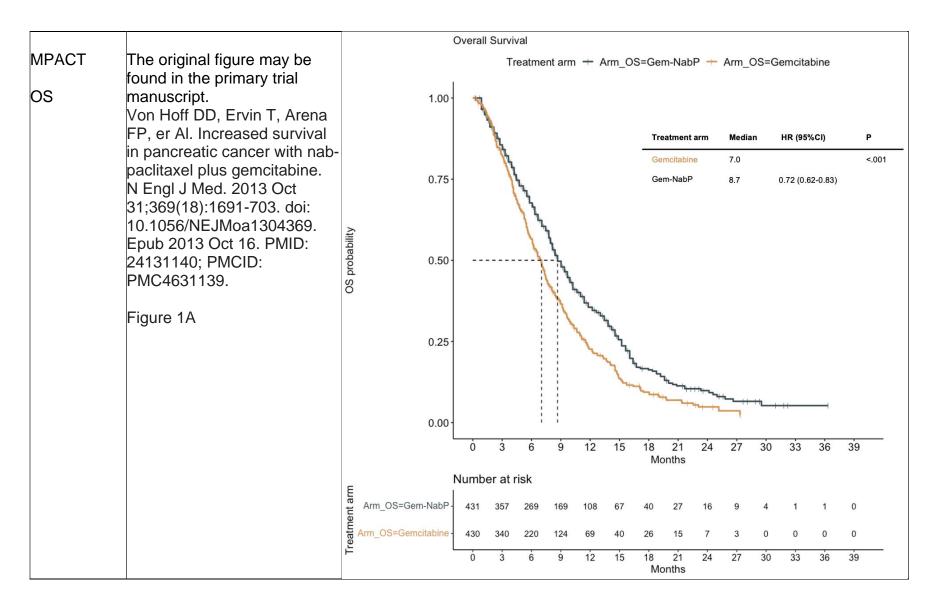


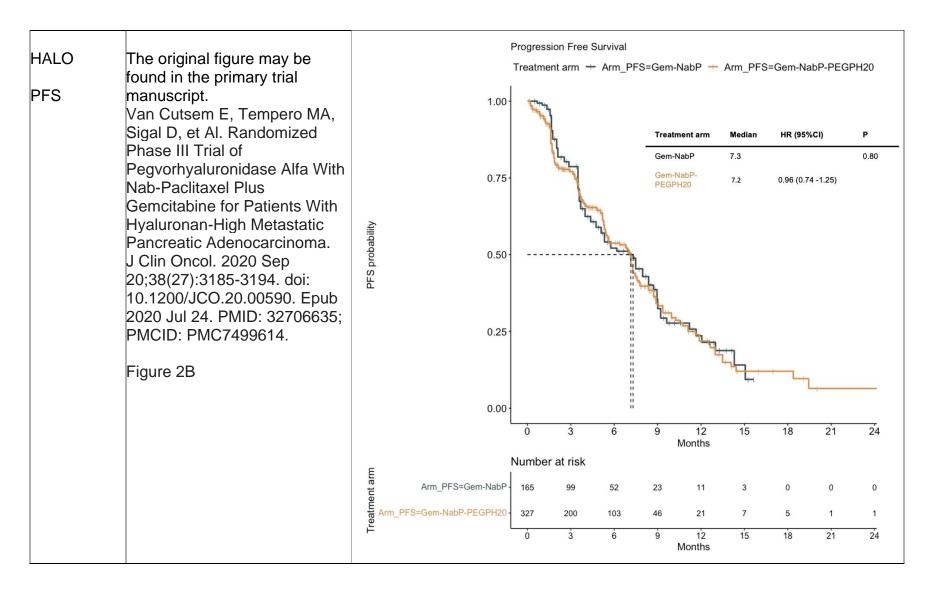


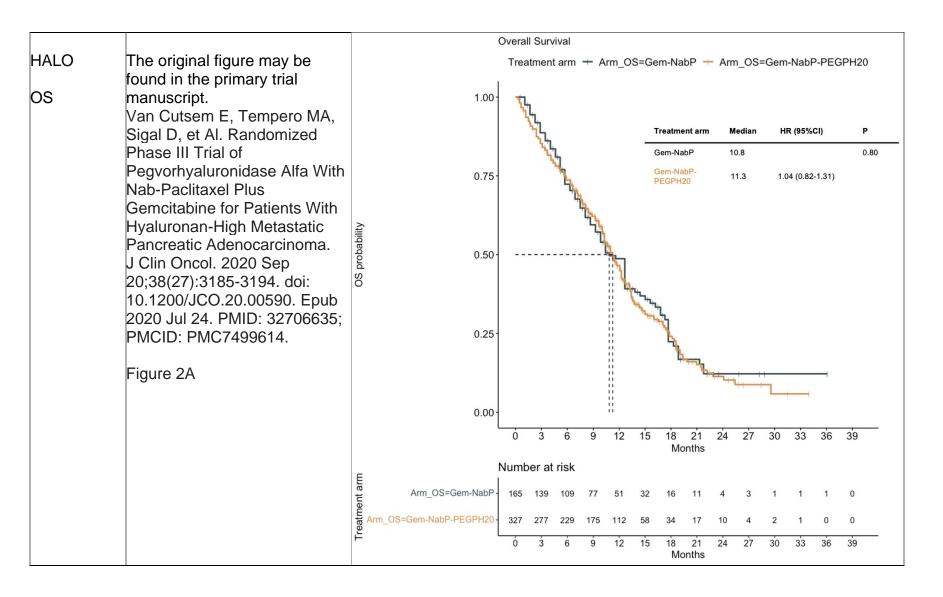


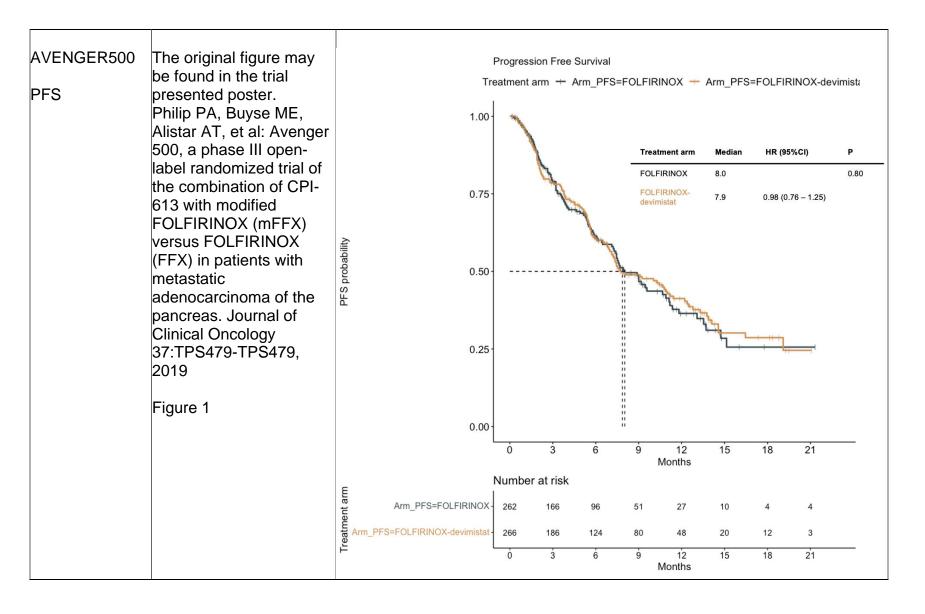


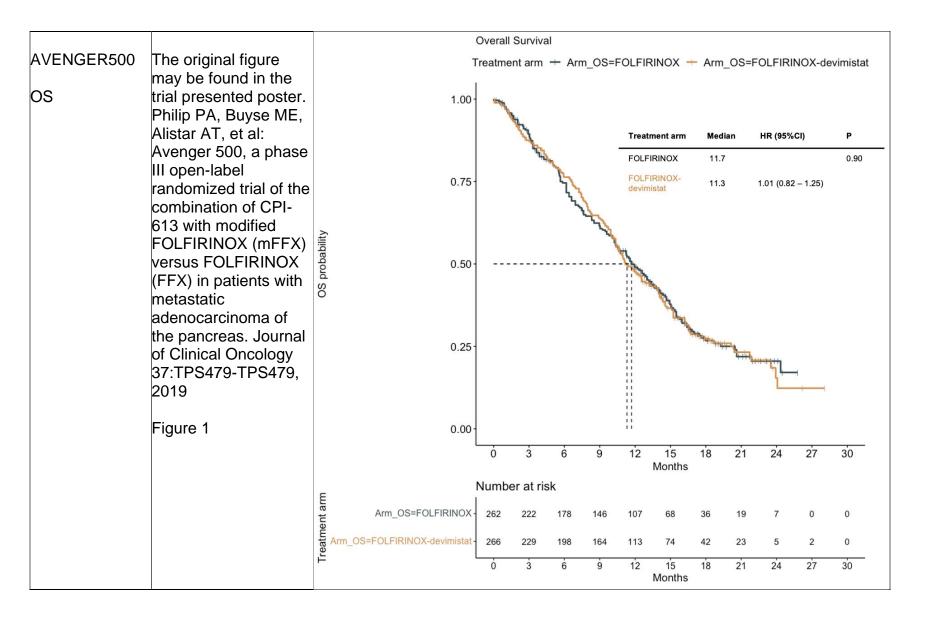


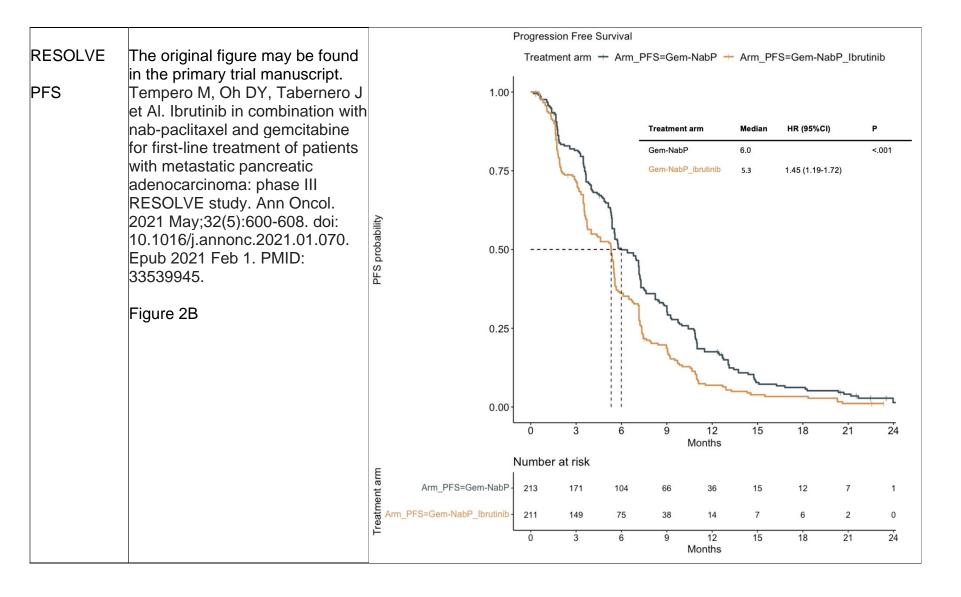


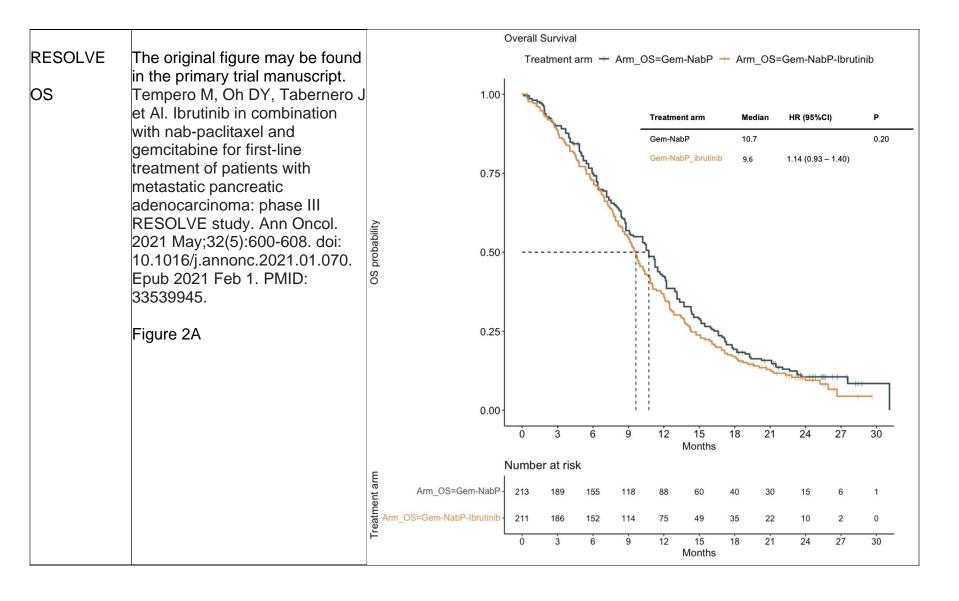


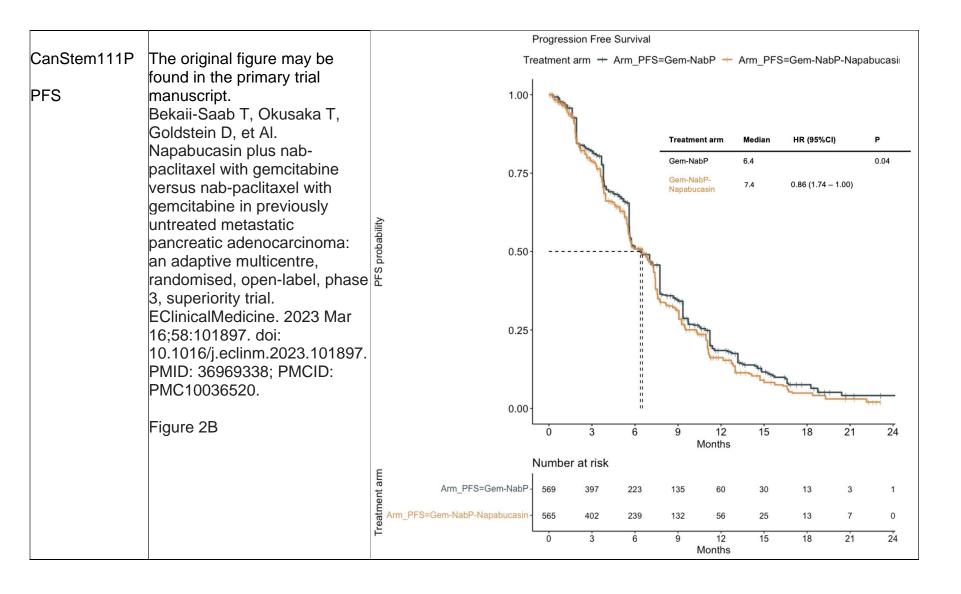


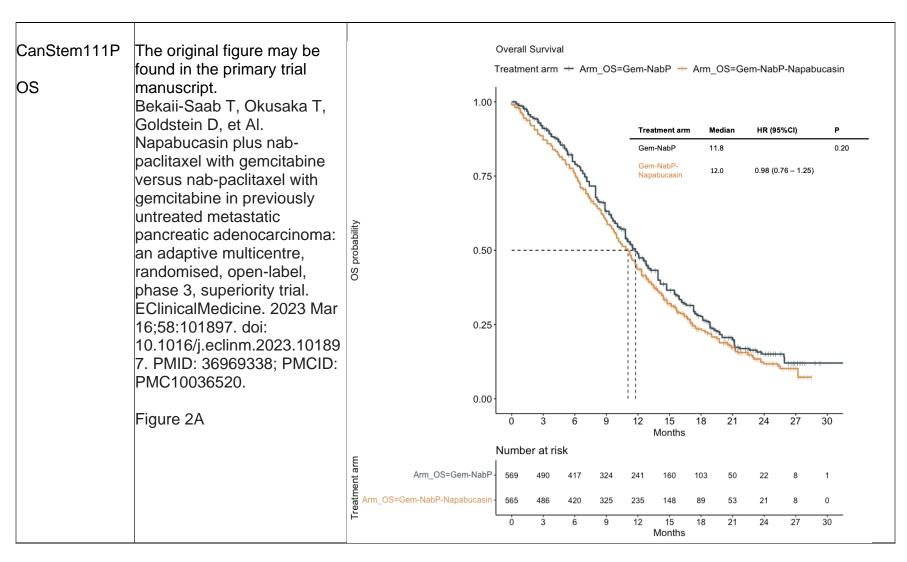












Abbreviations: CI: confidence interval; FOLFIRINOX: irinotecan + oxaliplatin + folinic acid + 5-fluoruracil; Gem-NabP: gemcitabine + NabPaclitaxel; HR: hazard ratio; NALIRIFOX: liposomal irinotecan + oxaliplatin + folinic acid + 5-fluoruracil.

Supplementary Table 4: Survival analysis and adjusted Cox regression models for overall survival and Progression Free Survival.

Overall Survival				
Treatment arm	n	Median (95%CI)	HR (95%CI)	р
NALIRIFOX	383	7.4 (6.1 - 7.7)	ref	
FOLFIRINOX	433	7.3 (6.5 - 7.9)	1.21 (0.86 - 1.70)	0.28
Gem-NabP	1765	5.7 (5.6 - 6.1)	1.45 (1.22 - 1.73) vs FOLFIRINOX 1.20 (0.88 - 1.64)	<.001 0.24
Progression Free	Survival			
NALIRIFOX	383	11.1 (10.1 - 12.3)	ref	
FOLFIRINOX	433	11.7 (10.4 - 13.0)	1.06 (0.81 - 1.39)	0.65
Gem-NabP	1765	10.4 (9.8 - 10.8)	1.18 (1.00 - 1.39) vs FOLFIRINOX	0.05
			1.11 (0.88 - 1.39)	0.37

Abbreviations: CI: confidence interval; FOLFIRINOX: 5-fluorouracil, leucovorin, irinotecan and oxaliplatin; Gem-NabP: gemcitabine plus Nab-Paclitaxel; HR: hazard ratio; NALIRIFOX: 5-fluorouracil, leucovorin, liposomal irinotecan and oxaliplatin;

### **Supplementary Table 5**: 6- and 12-months OS and PFS.

Treatment Arm	<b>6-months OS</b> % (95% CI)	<b>12-months OS</b> % (95% CI)	<b>p</b> *	<b>6-months PFS</b> % (95% CI)	<b>12-months PFS</b> % (95% CI)	p*
NALIRIFOX	73 (68 - 77)	46 (41 - 51)	0.30	56 (51 - 62)	27 (22 - 33)	0.02
FOLFIRINOX	75 (71 - 80)	49 (44 - 54)		58 (53 - 63)	23 (18 - 29)	
Gem-NabP	73 (71 - 75)	43 (40 - 45)		48 (45 - 50)	17 (15 - 19)	

<sup>\*</sup>Peto & Peto modification of Gehan-Wilcoxon test.

Abbreviations: CI: confidence interval; FOLFIRINOX: 5-fluorouracil, leucovorin, irinotecan and oxaliplatin; Gem-NabP: gemcitabine plus Nab-Paclitaxel; NALIRIFOX: 5-fluorouracil, leucovorin, liposomal irinotecan and oxaliplatin; OS: overall survival; PFS: progression-free survival.

Supplementary Table 6: Power analysis.

Outcome	Experimental Arm	Control Arm	Experimental Arm n° of patients	Control Arm n° of patients	HK	Power of upstream analyses	Total n° of patients (in 1:1 random) required to attain a power of 0.8
os	NALIRIFOX	FOLFIRINOX or Gem- NabP	383	2198	0.85	0.65	1714
os	NALIRIFOX	Gem-NabP	383	1765	0.85	0.64	1690
PFS	NALIRIFOX	FOLFIRINOX or Gem- NabP	383	2198	0.69	0.99	374
PFS	NALIRIFOX	Gem-NabP	383	1756	0.70	0.99	394
Outcome	Experimental Arm	Control Arm	Experimental Arm n° of patients	Control Arm n° of patients		Non-inferiority HR evaluable with 80% power	Total n° of patients (in 1:1 random) required to test non-inferiority
os	NALIRIFOX	FOLFIRINOX	383	433	1.02	1.23	1433
PFS	NALIRIFOX	FOLFIRINOX	383	433	0.95	1.23	287

Abbreviations: FOLFIRINOX: 5-fluorouracil, leucovorin, irinotecan and oxaliplatin; Gem-NabP: gemcitabine plus Nab-Paclitaxel; HR: hazard ratio; NALIRIFOX: 5-fluorouracil, leucovorin, liposomal irinotecan and oxaliplatin; OS: overall survival; PFS: progression-free survival.

### **Supplementary Table 7.** Results of logistic regression analysis for $G \ge 3$ toxicities according to pooled treatment regimens.

Toxicity	regimen	Rates (%)	Odds Ratio	conf.low	conf.high	p-value
Anemia	NALIRIFOX vs FOLFIRINOX	10.5 vs 11.2	0.99	0.56	1.75	0.97
	NALIRIFOX vs Gem-NabP	10.5 vs 18.8	0.55	0.37	0.82	0.003
	Gem-NabP vs FOLFIRINOX	18.0 vs 11.2	1.81	1.15	2.84	0.01
Neutrophil count decreased <sup>†</sup>	NALIRIFOX vs FOLFIRINOX	23.8 vs 30.8	0.66	0.28	1.55	0.34
	NALIRIFOX vs Gem-NabP	23.8 vs 34.6	0.51	0.37	0.70	<.001
	Gem-NabP vs FOLFIRINOX	34.6 vs 30.8	1.30	0.58	2.91	0.52
Febrile Neutropenia	NALIRIFOX vs FOLFIRINOX	2.4 vs 7.7	0.30	0.14	0.63	0.002
	NALIRIFOX vs Gem-NabP	2.4 vs 3.0	0.80	0.39	1.63	0.53
	Gem-NabP vs FOLFIRINOX	3.0 vs 7.7	0.37	0.24	0.59	<.001
Platelet count decreased*	NALIRIFOX vs FOLFIRINOX	1.6 vs 11.8	5.13	1.78	14.77	0.002
	NALIRIFOX vs Gem-NabP	1.6 vs 10.8	4.92	2.00	12.13	0.001
	Gem-NabP vs FOLFIRINOX	10.8 vs 11.8	1.04	0.57	1.91	0.89
Diarrhea*	NALIRIFOX vs FOLFIRINOX	20.3 vs 16.8	1.36	0.72	2.58	0.35
	NALIRIFOX vs Gem-NabP	20.3 vs 5.7	4.39	2.77	6.98	<.001
	Gem-NabP vs FOLFIRINOX	5.7 vs 16.8	0.32	0.20	0.51	<.001
Peripheal neuropathy*†	NALIRIFOX vs FOLFIRINOX	6.8 vs 9.0	0.90	0.35	2.32	0.83
	NALIRIFOX vs Gem-NabP	6.8 vs 12.1	0.70	0.41	1.18	0.18
	Gem-NabP vs FOLFIRINOX	12.1 vs 9.0	1.29	0.55	3.04	0.56
Vomit*	NALIRIFOX vs FOLFIRINOX	7.0 vs 14.5	0.45	0.25	0.81	0.007
	NALIRIFOX vs Gem-NabP	7.0 vs 2.4	3.12	1.60	6.05	0.001

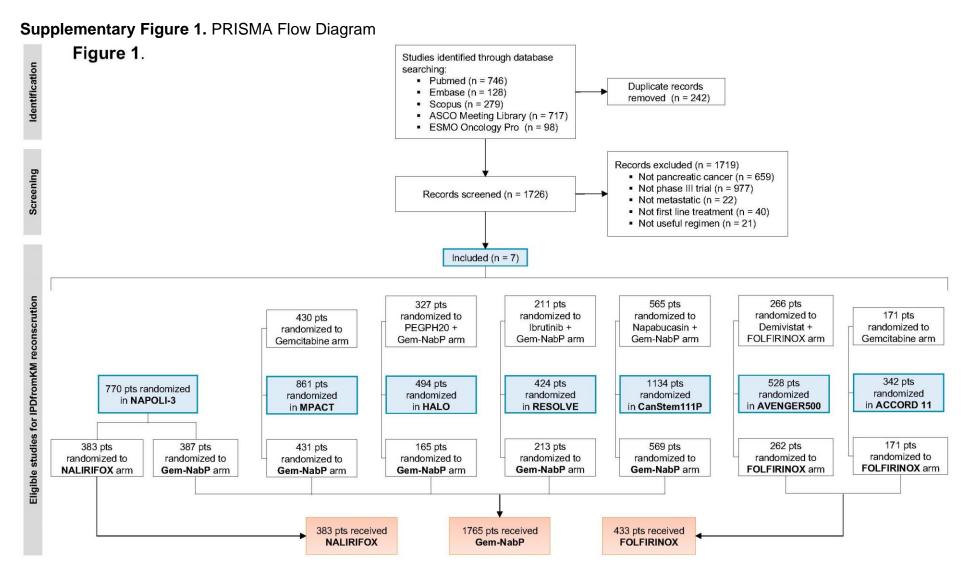
	Gem-NabP vs FOLFIRINOX	2.4 vs 14.5	0.14	0.07	0.28	<.001
Fatigue*†	NALIRIFOX vs FOLFIRINOX	15.1 vs 16.5	0.90	0.35	2.32	0.83
	NALIRIFOX vs Gem-NabP	15.1 vs 14.5	0.70	0.41	1.18	0.18
	Gem-NabP vs FOLFIRINOX	14.5 vs 16.5	1.29	0.55	3.04	0.56

<sup>\*</sup> The following toxicities were not detailed in all trials. In detail:

- Platelet count decreased and Fatigue rates were not available in CanStem111P trial results;
- Diarrhea rates were not available in HALO trial results;
- Peripheral neuropathy rates were not available in CanStem111P, HALO and AVENGER500 trial results;
- Vomit rates were not available in CanStem111P, MPACT, HALO and AVENGER500 trial results.
- † Equivalent terms reported separately in original reports were pooled before the analysis, including "Neutrophil count decreased" and "Neutropenia", "Peripheral neuropathy" and "Peripheral sensory neuropathy", and "Fatigue" and "Asthenia".

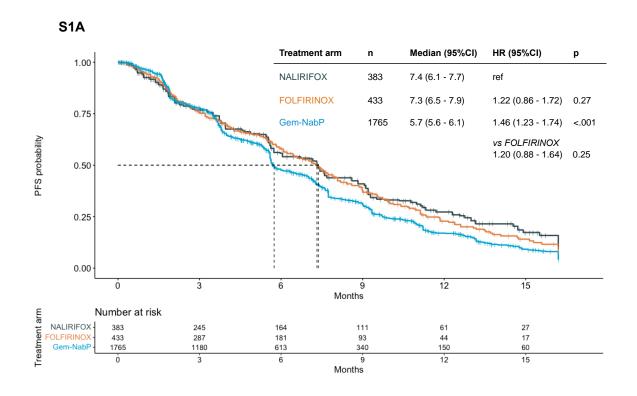
**Abbreviations:** conf.low/high= lower/upper bound of 95% confidence interval; FOLFIRINOX: irinotecan + oxaliplatin + folinic acid + 5-fluoruracil; Gem-NabP: gemcitabine + NabPaclitaxel; NALIRIFOX: liposomal irinotecan + oxaliplatin + folinic acid + 5-fluoruracil.

### Supplementary Figures

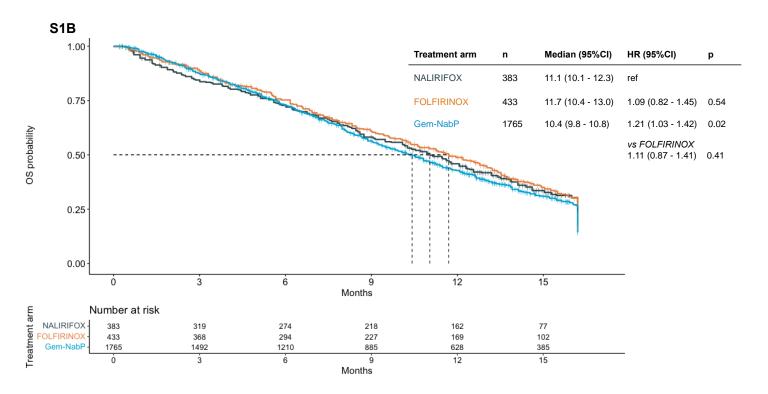


**Supplementary Figure 2A-B**. Reconstructed Kaplan-Meier plots for (A) Progression-Free Survival and (B) Overall Survival according to first line regimen with follow up censored at the time of the shortest follow up among included studies.

### Supplementary Figure 1 Part A.



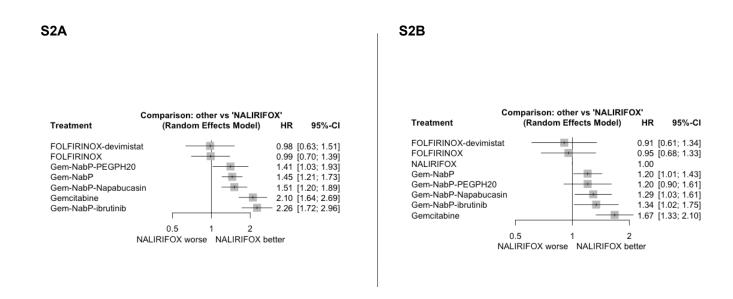
#### Supplementary Figure 1 Part B.



Abbreviations: CI: confidence interval; FOLFIRINOX: irinotecan + oxaliplatin + folinic acid + 5-fluoruracil; Gem-NabP: gemcitabine + NabPaclitaxel; HR: hazard ratio; NALIRIFOX: liposomal irinotecan + oxaliplatin + folinic acid + 5-fluoruracil.

**Supplementary Figure 3A-B**. Forest plots of Progression-Free Survival (S1B) and Overall Survival (S1B) in the network metaanalysis. NALIRIFOX is adopted as reference.

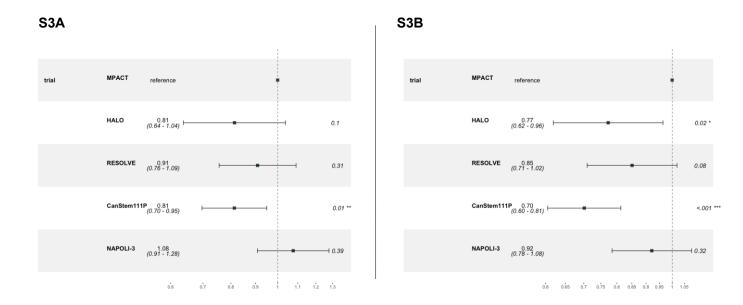
Supplementary Figure 2 Parts A-B.



Abbreviations: CI: confidence interval; FOLFIRINOX: irinotecan + oxaliplatin + folinic acid + 5-fluoruracil; Gem-NabP: gemcitabine + NabPaclitaxel; HR: hazard ratio; NALIRIFOX: liposomal irinotecan + oxaliplatin + folinic acid + 5-fluoruracil.

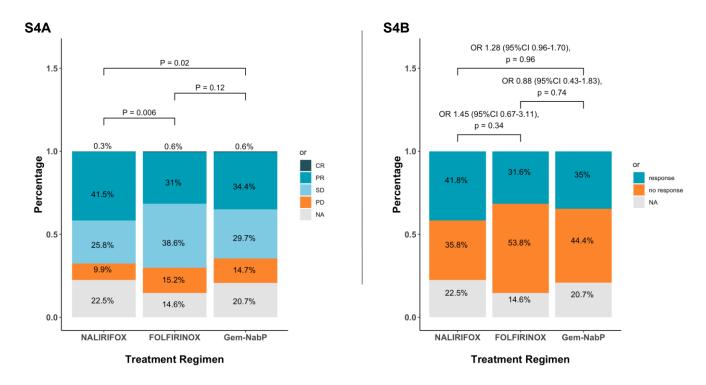
**Supplementary Figure 4A-B**. Forest plots of Progression-Free Survival (S1A) and Overall Survival (S1B) in patients treated with gemcitabine plus NabPaclitaxel according to the respective clinical trial.

Supplementary Figure 3 Parts A-B.



**Supplementary Figure 5A-B**. Barplots reporting best response (A) and overall response rate (B) according to the pooled treatment arms. Chi-squared tests pvalues are reported in (A), while OR (adjusted with clinical trials as random effect variable), together with corresponding 95%CI and p values are reported in (B).

#### Supplementary Figure 4 Part A-B.



Abbreviations: CI: confidence interval; CR: complete response; FOLFIRINOX: irinotecan + oxaliplatin + folinic acid + 5-fluoruracil; Gem-NabP: gemcitabine + NabPaclitaxel; HR: hazard ratio; NA: not available; NALIRIFOX: liposomal irinotecan + oxaliplatin + folinic acid + 5-fluoruracil; OR: odds ratio; PD: progressive disease; PR: partial response; SD: stable disease.