

Randomized Phase III trial of *nab*-Paclitaxel plus Gemcitabine vs Gemcitabine Alone as Adjuvant Therapy for Patients with Resected Pancreatic Cancer: AFACT

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INTRODUCTION

- The goals of adjuvant therapy are to reduce relapse and improve survival following surgical resection¹
- There are few ongoing trials of adjuvant therapy in pancreatic cancer (PC; Table 1)²

Table 1. Select Phase III Trials of Adjuvant Therapy in PC^a

Trial No.	Treatment	Estimated Enrollment
NCT01013649 ^b	Gem ± Eri or radiotherapy with Cape or 5-FU	N ≈ 950
NCT01526135	Gem vs mFOLFIRINOX ^c	N ≈ 490
NCT01150630 ^b	Neoadjuvant and adjuvant Gem ± Cis, Epi, and Cape vs adjuvant Gem	N ≈ 370
NCT02355119	FOLFOXIRI	N ≈ 310

^a Search terms: "adjuvant therapy" and "pancreatic cancer"; interventional; phase III; open. ^b Phase II/III. ^c Modified: oxaliplatin 85 mg/m², irinotecan 150 mg/m², leucovorin 400 mg/m², 5-FU 1200 mg/m²/day (no bolus), q2w × 24 weeks.

- In the European Union and the United States, there are few adjuvant treatment recommendations
 - According to ESMO guidelines, Gem and 5-FU are category IA recommendations³
 - According to NCCN guidelines, Gem or 5-FU leucovorin are category 1 recommendations⁴
- Recurrence rates with adjuvant Gem were 76% and 81% in 2 phase III trials, suggesting a need for improved therapies^{5,6}
- In the phase III MPACT trial in patients with metastatic PC, greater efficacy was observed with *nab*-P + Gem than with Gem alone^{7,8}
 - Median OS: 8.7 vs 6.6 months (HR 0.72; 95% CI, 0.62 - 0.83; *P* < 0.001)⁸
 - Median PFS: 5.5 vs 3.7 months (HR 0.69; 95% CI, 0.58 - 0.82; *P* < 0.001)⁷
 - ORR⁷
 - By independent review: 23% vs 7%; *P* < 0.001
 - By investigator review: 29% vs 8%; *P* < 0.001
- Based on the findings from the MPACT trial, the AFACT trial will compare *nab*-P + Gem with Gem alone in patients with resected PC

nab-P is a registered trademark of Celgene Corporation.

OBJECTIVES

Primary

- Compare DFS between patients randomized to *nab*-P + Gem vs Gem alone

Secondary

- Assess OS between patients randomized to *nab*-P + Gem vs Gem alone
- Assess safety and tolerability of the 2 treatment regimens

Exploratory

- Evaluate tumor markers to assess molecular heterogeneity
- Evaluate the effect of *nab*-P + Gem vs Gem alone on patients' quality of life

ENDPOINTS

Primary

- Independently assessed DFS (defined as the time from randomization to disease recurrence or death, whichever is earlier)

Secondary

- OS, safety

Exploratory

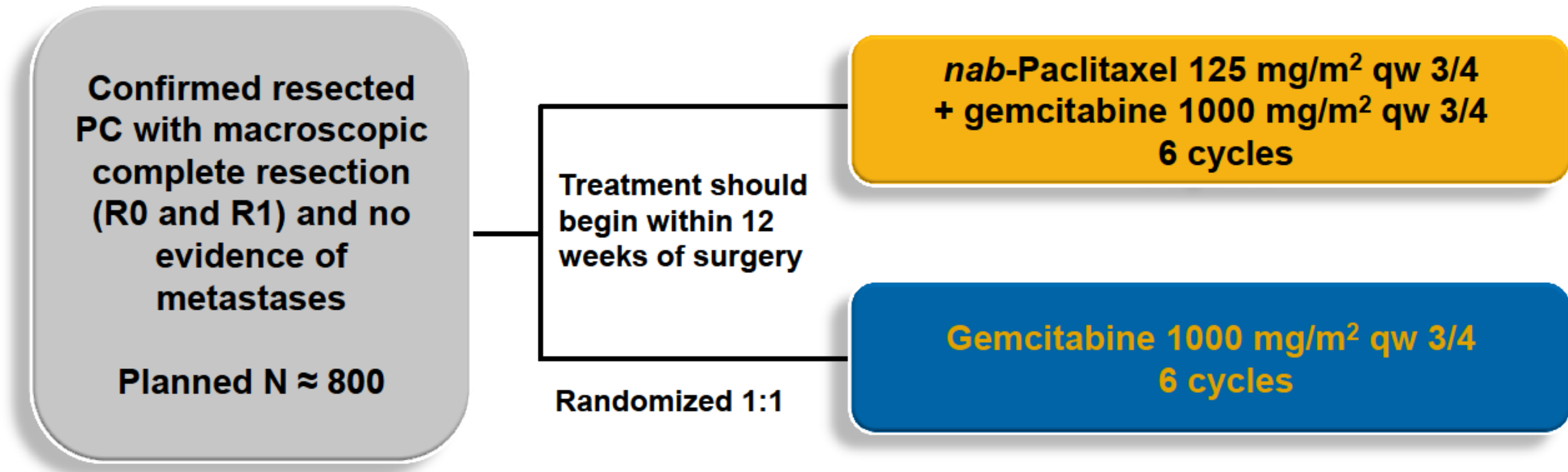
- Molecular profiling of tumor tissue to correlate tumor heterogeneity with clinical outcome
- Quality of life as measured by the EORTC QLQ-C30 and QLQ-PAN26

5-FU, 5-fluorouracil; CA19-9, carbohydrate antigen 19-9; Cape, capecitabine; Cis, cisplatin; CT, computed tomography; DFS, disease-free survival; ECOG PS, Eastern Cooperative Oncology Group performance status; EORTC, European Organisation for Research and Treatment of Cancer; Epi, epirubicin; Eri, erlotinib; ESMO, European Society for Medical Oncology; FOLFIRINOX, leucovorin, 5-FU, irinotecan, oxaliplatin; FOLFOXIRI, leucovorin, 5-FU, oxaliplatin, irinotecan; Gem, gemcitabine; HIV, human immunodeficiency virus; HR, hazard ratio; LN, lymph node; M, metastasis; MRI, magnetic resonance imaging; N, node; NCCN, National Comprehensive Cancer Network; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; q2w, every 2 weeks; QLQ, Quality of Life Questionnaire; qw 3/4, first 3 of 4 weeks; T, tumor.

STUDY DESIGN

apact TM

Adjuvant Pancreatic Adenocarcinoma Clinical Trial
albumin-bound paclitaxel (ABI-007) + gemcitabine
ClinicalTrials.gov NCT01964430



Stratification factors: resection status (R0 vs R1); nodal status (LN+ vs LN-); geographic region (North America vs Europe vs Australia vs Asia Pacific).

METHODS

Key Inclusion Criteria

- Histologically confirmed resected pancreatic adenocarcinoma with macroscopic complete resection (R0 and R1)
- Surgical staging: T1-3, N0-1, M0
- No prior neoadjuvant treatment or radiation therapy for pancreatic adenocarcinoma
- Able to begin treatment ≤ 12 weeks after resection
- Age ≥ 18 years
- ECOG PS ≤ 1
- Acceptable hematology and blood chemistry parameters
- CA19-9 < 100 U/mL assessed within 14 days of randomization

Key Exclusion Criteria

- Tumors of mixed origin
- Presence or history of metastatic PC
- Any other malignancy within 5 years of randomization, excluding adequately treated in situ cervical, uterine, or nonmelanomatous skin cancer
 - Treatment should have been completed > 6 months before randomization
- Active infection(s) requiring systemic therapy
- History of hypersensitivity to study drugs or their excipients
- Known history of hepatitis B or C or HIV infection or use of medications that could increase the risk of neutropenia

STATISTICAL ANALYSIS

- In 2 separate randomized phase III studies, the median DFS values for patients with surgically resected PC who received adjuvant Gem therapy were 13.4 months and 14.3 months^{9,10}
- The planned enrollment of ≈ 800 patients in this trial was selected based on the following assumptions:
 - Gem will result in a median DFS of 14 months
 - nab*-P + Gem will result in a median DFS of 19 months, representing an HR of 0.74
- At least 489 DFS events from 800 patients would allow 90% power to detect an HR of 0.74 at a 2-sided significance level of 0.05
- Two interim efficacy analyses are planned:
 - The first will assess futility after 163 DFS events
 - The second will assess both futility and superiority after 342 DFS events or the enrollment of 800 patients (whichever is later)
- One interim safety analysis is planned after 100 patients are treated (≥ 2 cycles)

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DISCLOSURES

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Dose Modifications

- Two dose reductions are allowed for hematologic and other toxicities (Table 2)
- Patients will be discontinued from the study if > 2 dose reductions are required

Table 2. Dose Reductions

Dose Level ^a	<i>nab</i> -P, mg/m ²	Gem, mg/m ²
Starting dose	125	1000
-1	100	800
-2	75	600

^a Dose reductions may or may not be concomitant in the *nab*-P + Gem arm.

Patient Follow-Up

- DFS
 - CT/MRI scans will be performed at screening, every 8 weeks for the first 24 weeks, every 12 weeks for the first 3 years, then every 24 weeks until disease recurrence for up to 5 years from the last treatment
 - Patients who discontinue treatment in the absence of disease recurrence should undergo repeat imaging until disease recurrence, death, or the start of new therapy
- Posttreatment OS will be monitored every 3 months until death, withdrawal of consent, or the end of the study
- A data monitoring committee is in place for this trial

CONCLUSIONS

- AFACT (N ≈ 800) will determine whether *nab*-P + Gem is superior to Gem alone as adjuvant therapy in patients with resected pancreatic adenocarcinoma
- Primary endpoint is DFS
- This study may identify an effective treatment regimen for adjuvant PC
- This study will establish 1 of the largest collections of primary tumor tissue from patients with pancreatic adenocarcinoma for molecular analyses
- Current enrollment is 377 patients

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