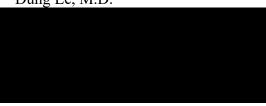
# Cover Page for Protocol – J1847

| NCT Number:             | NCT03535727                              |
|-------------------------|------------------------------------------|
| Official title of study | A Phase I/II Study of Gemcitabine, Nab-  |
|                         | paclitaxel, Capecitabine, Cisplatin, and |
|                         | Irinotecan (GAX-CI) in Combination in    |
|                         | Metastatic Pancreatic Cancer             |
| Document Date:          | April 8, 2022                            |

# TITLE: A phase I/II study of gemcitabine, nab-paclitaxel, capecitabine, cisplatin, and irinotecan (GAX-CI) in combination in metastatic pancreatic cancer

**Protocol #:** J1847, IRB00167664

**Principal Investigator:** Dung Le, M.D.



**Commercial Agents:** Gemcitabine

Nab-paclitaxel Capecitabine Cisplatin Irinotecan

Protocol Type / Version # / Version Date: Original/ Version 1/ March 27, 2018

Original/ Version 1.1/ April 11, 2018 Original/ Version 1.2/ April 19, 2018 Amendment 1/ Version 2.0/ June 20, 2018 Amendment 2/ Version 3.0/ October 2, 2018 Amendment 3/ Version 4.0/ July 30, 2019 Amendment 4/ Version 5.0/ September 26, 2019

Amendment 4/ Version 5.0/ September 20, 2 Amendment 5/ Version 6.0/ January 2, 2020 Amendment 6/ Version 7.0/ June 17, 2020 Amendment 7/ Version 8.0/ April 8, 2021 Amendment 8/ Version 9.0/April 08, 2022

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#### 1. OBJECTIVES

#### 1.1. Primary Objectives

**Part 1:** The primary objective of the phase I portion is to assess safety of the combination of gemcitabine, nab-paclitaxel, capecitabine, cisplatin, and irinotecan (GAX-CI) in patients with untreated metastatic pancreatic adenocarcinoma (PDA) and to determine the maximally tolerated dose (MTD) or the recommended dose for phase II of the combination.

**Part 2:** The primary objective of the phase II portion is to assess the efficacy of the combination of gemcitabine, nab-paclitaxel, capecitabine, cisplatin, and irinotecan (GAX-CI) in patients with untreated metastatic PDA based on the progression free survival (PFS).

#### 1.2. Secondary Objectives

1.2.1 **Part 2**: Continue to assess the safety of GAX-CI in patients with untreated metastatic PDA.

#### 1.3 Exploratory Objectives

- 1.3.1 **Part 2**: To estimate the response rate (RR), disease control rate (DCR), and overall survival (OS) of the combination of gemcitabine, nab-paclitaxel, capecitabine, cisplatin, and irinotecan (GAX-CI) in patients with untreated metastatic PDA.
- 1.3.2 To assess tumor burden dynamics using both standard protein biomarkers such as CA19-9 and CEA and exploratory biomarkers such as circulating tumor DNA.
- 1.3.3 To assess baseline characteristics of the patients enrolled and correlate these molecular and clinicopathologic criteria with treatment response and toxicity.
- 1.3.4 To evaluate molecular determinants of response using next generation sequencing and other sequencing techniques.

#### 1.4 Study Design

This is a two-part, single-institution, open-label, dose-escalation, phase 1/2 study to evaluate the clinical activity of gemcitabine, nab-paclitaxel, capecitabine, cisplatin, and irinotecan (GAX-CI) in patients with metastatic pancreatic cancer.

Part 1 of the study is a 3 + 3 dose escalation study designed to evaluate the maximally tolerated dose (MTD), dose limiting toxicities (DLTs), and safety of increasing doses of nab-paclitaxel (Abraxane®) in combination with GX-CI. There will be two cohorts of dose escalations. The two cohorts differ based on the treatment cycle length (28 days for Cohort 1 and 21 days for Cohort 2). Dose finding study will be conducted for the 2 cohorts separately. Dose escalation will start with Cohort 1. Enrollment for Cohort 2 dose level 1 may start once dose level 2 of Cohort 1 is shown to be safe and does not exceed MTD. Dose levels 3-5 (if MTD is not reached), or any dose levels

lower than MTD, may enroll a total of 6 patients with amendment 2, for preliminary assessment of tumor response per RECIST 1.1. The recommended dose for phase 2 portion may be a dose level at or lower than MTD, and will be determined based on the review of the safety and tumor response data. Criteria for DLTs and dose escalations are defined in **Section 4.3**.

Part 2 is an expansion cohort study for the evaluation of efficacy once the MTD or RDP2 has been determined. A dose level from Cohort 1 and/or Cohort 2 may be chosen for expansion once safety and efficacy have been evaluated in the first 6 patients in that dose level. If enrollment in an expansion cohort occurs at the same time as dose escalation, enrollment into the dose escalation will take priority. Due to the COVID 19 situation, version 7 of the protocol is amended to hold enrollment into cohort 2 until cohort 1 is complete to decrease the number of in person visits required of the patients. The primary endpoint of Part 2 will be PFS. The treatment regimen would be considered of insufficient activity for further study in this population if the PFS rate at 6 months is 44% or less, and the minimum required level of efficacy that would warrant further study with the proposed regimen is a 65% PFS rate at 6 months (Section 12).

#### 2. BACKGROUND

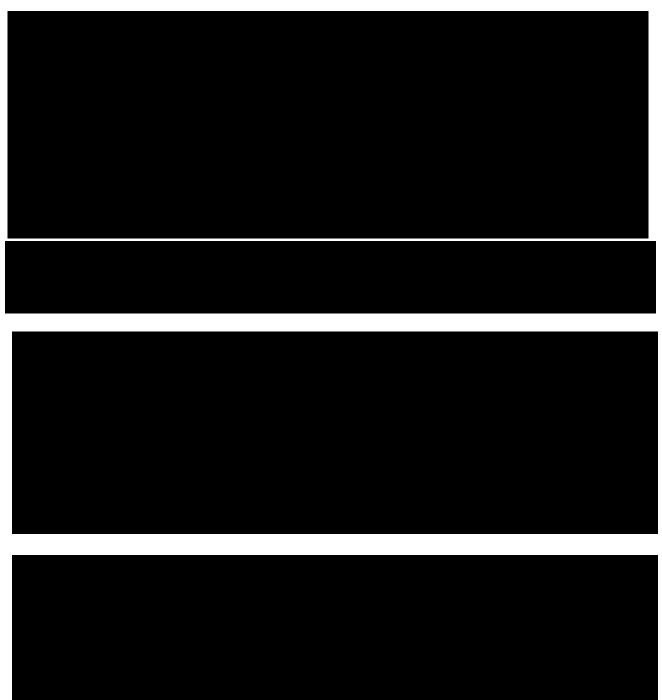
#### 2.1 Study Disease

In 2018, there was an estimated 55,440 new cases of pancreatic cancer diagnosed in the United States<sup>1</sup>. Generally, most new cases of pancreatic cancer are advanced with extensive tumor growth usually due to the lack of symptoms during the early stages of the disease. As a result, few patients are considered candidates for surgical resection. Patients with advanced pancreatic cancer are usually treated with chemotherapy in an effort to improve survival and alleviate symptoms. Median survival time ranges from 4 to 6 months in patients with metastatic disease. With treatment, survival has improved to 6 to 11 months<sup>2,3</sup>. Overall, the 5-year survival rate is about 8% for all stages combined and decreases to 3% for patients with metastatic pancreatic cancer<sup>1</sup>. Currently, there are a few standard therapy options for patients. Single agent gemcitabine was FDA approved based on a comparative study between gemcitabine and 5-FU. Gemcitabine produced significant improvement in disease-related symptoms and prolonged survival (1-year survival: 18% versus 2%, respectively)<sup>4</sup>. Subsequently, the oral tyrosine kinase inhibitor, erlotinib, was approved in combination with gemcitabine based on a slight increase in median survival over gemcitabine alone (6.24 months compared to 5.91 months)<sup>5</sup>. A randomized phase III study performed in France comparing FOLFIRINOX (5-FU/irinotecan/oxaliplatin) to gemcitabine resulted in an improvement in survival of 6.8 months versus 11.1 months<sup>2</sup>. While this regimen is being used, there are still concerns about its potential toxicity in a North American population and is being reserved for the most fit patients. Nab-paclitaxel is approved in combination for gemcitabine with a median survival of 8.5 months compared to 6.7 months with gemcitabine alone<sup>6</sup>. Therapies for patients with metastatic pancreatic cancer are urgently needed.

#### 2.2 Rationale

Combination chemotherapy is now extending the lives of those with metastatic pancreatic cancer, however, overall survival (OS) remains less than 1 year<sup>2,6</sup>. In most cases, responses and prolonged survival are limited by the emergence of resistance mutations that render even triplet chemotherapy

ineffective<sup>2,7,8</sup>. Increasing the number of agents in a therapeutic cocktail could, in theory, improve outcomes and create a scenario where the emergence of solitary resistance mutations would no longer result in loss of efficacy. This hypotheses is supported by mathematical modeling that evaluates the number of tumor cells at treatment onset and evolution of mutations to predict the response to single versus dual versus multi-agent therapy<sup>8,9</sup>. These models predict that patients with high tumor burden and monotherapy are unlikely to have a prolonged response. The converse is true as well. Patients with lower burden disease and multi-agent therapy are more likely to have durable responses.



#### 3. PATIENT SELECTION

#### 3.1 Eligibility Criteria

- 1. Subjects must have histologically or cytologically confirmed untreated metastatic pancreatic adenocarcinoma. Subjects with islet cell neoplasms are excluded. Subjects with mixed histology will be excluded.
- 2. Subject has one or more tumors measurable by CT scan using RECIST 1.1 criteria. MRI is acceptable if a CT scan is contraindicated.
- 3. Male or non-pregnant and non-lactating female of age >18 years.
- 4. ECOG performance status ≤1 (**Appendix A**). ECOG 0 indicates that the patient is fully active and able to carry on all pre-disease activities without restriction; and, ECOG 1 indicates that the patient is restricted in physically strenuous activity but is ambulatory and able to carry out work of a light or sedentary nature.
- 5. Subjects must have adequate organ and marrow function as defined below:

Absolute Neutrophil Count ≥1,500/mcL
 Platelets ≥100 x 10<sup>9</sup>/L
 Hemoglobin ≥8 g/dL

- Total Bilirubin within normal institutional limits (≤1.5 X ULN if

resolving biliary obstruction)

- Alkaline phosphatase  $\leq 5 \text{ X ULN}$ 

- AST(SGOT)/ALT(SGPT)  $\leq 2.5 \text{ x ULN} (\leq 5 \text{ X ULN for subjects with})$ 

documented liver metastases)

- Creatinine within normal limits (creatinine clearance  $\geq$ 60

mL/min/1.73 m<sup>2</sup> for subjects with creatinine

levels above institutional normal.)

- 6. Women of child-bearing potential and men must agree to use adequate contraception (hormonal or barrier method of birth control; abstinence) prior to study entry and for the duration of study participation. Should a woman become pregnant or suspect she is pregnant while she or her partner is participating in this study, she should inform her treating physician immediately.
- 7. Ability to understand and the willingness to sign a written informed consent document.

#### 3.2 Exclusion Criteria

- 1. Patients who will be considered for surgery are ineligible.
- 2. Subjects who have had any prior chemotherapy for pancreatic cancer or prior chemotherapy

within 5 years of enrollment for other cancer diagnoses.

- 3. Subjects who have had radiotherapy for pancreatic cancer.
- 4. Age  $\geq$  76 years
- 5. Subjects who are receiving or have received any other investigational agents within 28 days prior to Day 1 of treatment in this study.
- 6. Subject has undergone major surgery, other than diagnostic surgery (i.e. surgery done to obtain a biopsy for diagnosis or an aborted Whipple), within 28 days prior to Day 1 of treatment in this study.
- 7. Subject has known brain metastases.
- 8. History of hypersensitivity or allergic reactions attributed to compounds of similar chemical or biologic composition to gemcitabine, nab-paclitaxel, capecitabine, cisplatin, or irinotecan.
- 9. Uncontrolled intercurrent illness including, but not limited to, uncontrolled infection, symptomatic congestive heart failure, unstable angina pectoris, cardiac arrhythmia, or psychiatric illness/social situations that would limit compliance with study requirements.
- 10. Subject has serious medical risk factors involving any of the major organ systems such that the Investigator considers it unsafe for the subject to receive an experimental research drug.
- 11. Subject has a known history of infection with HIV, hepatitis B, or hepatitis C.
- 12. Subject is pregnant or breast feeding.
- 13. Subject is unwilling or unable to comply with study procedures.
- 14. Subject with clinically significant wound.

#### 3.3 Inclusion of Women and Minorities

Both men and women of all races and ethnic groups are eligible for this trial.

#### 4. TREATMENT PLAN

#### 4.1 Agent Administration

Treatment will be administered on an outpatient basis. The description of the regimen is further described in **Table 2**. Reported adverse events and potential risks are described in **Section 6**. Appropriate dose modifications are described in **Section 5**. No investigational or commercial agents or therapies other than those described below may be administered with the intent to treat the subject's malignancy. The phase I portion of this study will evaluate up to 6 dose levels and 2

dosing schedules of the regimen to determine the MTD or the recommended dose for the Phase 2 portion of the study. The recommended dose for the Phase 2 portion of the trial will be determined according to toxicity and efficacy based on objective response per **Section 4.3**.

**Table 1:** Dose Levels

| Dose Escalation Schedule |                     |                     |                                 |                                         |    |                    |                           |
|--------------------------|---------------------|---------------------|---------------------------------|-----------------------------------------|----|--------------------|---------------------------|
|                          |                     | Dose*               |                                 |                                         |    |                    |                           |
| Cohort                   | Dose<br>Level       | Gemcitabine (mg/m²) | Nab-<br>paclitaxel<br>(mg/m²)** | Capecitabine (mg BID) Cisplatin (mg/m²) |    | Irinotecan (mg/m²) | Cycle<br>Length<br>(Days) |
|                          | Level -1<br>(N=3-6) | 500                 | 20                              | 500                                     | 20 | 20                 | 28                        |
|                          | Level 1 (N=3-6)     | 500                 | 40                              | 500                                     | 20 | 20                 | 28                        |
| Cohort                   | Level 2<br>(N=3-6)  | 500                 | 60                              | 500                                     | 20 | 20                 | 28                        |
| 1                        | Level 3<br>(N=6)    | 500                 | 80                              | 500                                     | 20 | 20                 | 28                        |
|                          | Level 4<br>(N=6)    | 500                 | 100                             | 500                                     | 20 | 20                 | 28                        |
|                          | Level 5<br>(N=6)*** | 500                 | 125                             | 500                                     | 20 | 20                 | 28                        |
|                          | Level -1<br>(N=3-6) | 500                 | 20                              | 500                                     | 20 | 20                 | 21                        |
| Cohort<br>2              | Level 1<br>(N=3-6)  | 500                 | 40                              | 500                                     | 20 | 20                 | 21                        |
|                          | Level 2<br>(N=3-6)  | 500                 | 60                              | 500                                     | 20 | 20                 | 21                        |
|                          | Level 3<br>(N=6)    | 500                 | 80                              | 500                                     | 20 | 20                 | 21                        |

<sup>\*</sup>Doses are stated as exact dose in units (e.g., mg/m², mcg/kg, etc.) rather than as a percentage.

<sup>\*\*</sup>Doses may be rounded to the nearest whole and half-vial size (50 and 100 mg) and within 10% of the patient's ordered dose.

<sup>\*\*\*</sup> Dose Level 5 will only be initiated if 4 out of 6 patients in Dose Level 4 do not have SD, PR, or CR by RECIST 1.1.

Table 2: Regimen Description

| Agent         | Suggested pre and/or post medications    | Route                | Schedule        | Cycle<br>Length             |
|---------------|------------------------------------------|----------------------|-----------------|-----------------------------|
|               | 5-HT3 antagonist IV + fosaprepitant IV   |                      | Cohort 1:       |                             |
| Nab-          | + 12mg decadron IV.                      | IV over 30 minutes*  | Days 1 and 15   |                             |
| paclitaxel    | Post IV meds: 8 mg oral BID decadron     |                      | Cohort 2:       |                             |
|               | and 5-HT3 antagonist for 1-3 days.       |                      | Days 4 and 11   |                             |
|               |                                          |                      | Cohort 1:       |                             |
| Gemcitabine   | See nab-paclitaxel                       | IV over 30 minutes*  | Days 1 and 15   |                             |
| Genicitabilie | See nao-pacitiaxei                       | IV over 30 minutes*  | Cohort 2:       |                             |
|               |                                          |                      | Days 4 and 11   | Cohort 1:                   |
|               |                                          |                      | Cohort 1:       | 28 days                     |
| Capecitabine  | 5-HT3 antagonist oral or                 | PO BID               | Days 1-7, 15-21 | 26 days                     |
| Capecitabilie | prochlorperazine oral prn                | LO DID               | Cohort 2:       | <u>Cohort 2:</u><br>21 days |
|               |                                          |                      | Days 1-14       |                             |
|               |                                          |                      | Cohort 1:       | 21 days                     |
| Cisplatin     | Normal saling 500cc IV are and post      | IV over 60 minutes*  | Days 1 and 15   |                             |
| Cispiatiii    | Normal saline 500cc IV pre and post      |                      | Cohort 2:       |                             |
|               |                                          |                      | Days 4 and 11   |                             |
|               |                                          |                      | Cohort 1:       |                             |
| Irinotecan    | Atropine should be immediately           | IV over 30 minutes*  | Days 1 and 15   |                             |
| irmotecan     | available for anti-cholinergic reactions | 1 v over 30 minutes* | Cohort 2:       |                             |
|               |                                          |                      | Days 4 and 11   |                             |

<sup>\*</sup>Infusion times are approximate (+/- 15 minutes) and may need to be adjusted based on patient tolerability

The subject will be requested to maintain a medication diary of each dose of capecitabine (Appendix B and C). The medication diary will be returned to the study team at the end of each cycle.

#### 4.1.1 Other Considerations

The order of administration of the IV chemotherapeutic agents is nab-paclitaxel followed by gemcitabine followed by cisplatin followed by irinotecan. The hydration for cisplatin should occur pre and post infusion as standard of care for 30-60 minutes.

Capecitabine tablets should be swallowed with water within 30 minutes after eating. Capecitabine can have an effect on warfarin or coumadin and phenytoin metabolism.

#### 4.2 Continuation of Therapy

Subjects will be evaluated during the treatment period to determine if continued treatment is appropriate. If, at any time during treatment the evaluation criteria are not met, GAX–CI can be held or the dose adjusted. Suggested dose modification criteria are in **Section 5**.

To continue therapy, subjects must meet the following criteria (exceptions should be approved by the principal investigator):

#### Cohort 1

| • | Absolute Neutrophil Count               | ≥1000/mcL                                                          |
|---|-----------------------------------------|--------------------------------------------------------------------|
| • | Platelets                               | $\geq 70 \times 10^9 / L$                                          |
| • | Hemoglobin                              | $\geq$ 7 g/dL                                                      |
| • | Total Bilirubin                         | $\leq$ 2 x ULN                                                     |
| • | AST(SGOT)/ALT(SGPT)                     | ≤ 5 X ULN                                                          |
| • | Creatinine                              | $\leq$ 1.5 x ULN                                                   |
|   | (creatinine clearance ≥50 mL/min/1.73 m | <sup>2</sup> for subjects with creatinine levels $> 1.5 \text{ x}$ |
|   | ULN.)                                   |                                                                    |

#### Cohort 2

| • | Absolute Neutrophil Count                            | Day 4 of cycle: ≥1000/mcL                                          |
|---|------------------------------------------------------|--------------------------------------------------------------------|
|   |                                                      | Day 11 of cycle: ≥900/mcL                                          |
| • | Platelets                                            | Day 4 of cycle: $\geq 80 \times 10^9 / L$                          |
|   |                                                      | Day 11 of cycle: $\ge 70 \times 10^9 / L$                          |
| • | Hemoglobin                                           | $\geq$ 7 g/dL                                                      |
| • | Total Bilirubin                                      | $\leq 2 \text{ x ULN}$                                             |
| • | AST(SGOT)/ALT(SGPT)                                  | ≤ 5 X ULN                                                          |
| • | Creatinine                                           | $\leq$ 1.5 x ULN                                                   |
|   | (creatinine clearance ≥50 mL/min/1.73 m <sup>2</sup> | <sup>2</sup> for subjects with creatinine levels $> 1.5 \text{ x}$ |
|   | ULN)                                                 |                                                                    |

#### 4.3 Definition of a Dose Limiting Toxicity (DLT)

The dose-limiting toxicity (DLT) for the combination in this study will be defined as one or more of the following possibly or probably related toxicities within the first cycle of treatment according to the NCI Common Toxicity Criteria for Adverse Events (CTCAE), Version 5:

- Any Grade 3 or higher toxicity possibly or probably related to the study drug, with the exception of:
  - Grade 3 anemia that resolves to ≤grade 2 within 7 days. Subjects should have repeat labs within 7 days to document resolution.
  - Grade 3 thrombocytopenia without clinically significant bleeding that resolves to ≤grade 2 within 7 days. Subjects should have repeat labs within 7 days to document resolution.
  - Grade 3 or 4 neutropenia that resolves to ≤grade 2 within 7 days. Subjects should have repeat labs within 7 days to document resolution.
  - Grade 3 or 4 leucopenia/lymphopenia.
  - Grade 3 nausea, vomiting, or diarrhea that resolves to ≤grade 2 within 72 hours.

- Grade 3 or 4 asymptomatic laboratory values that resolve to ≤ grade 2 within 7 days. Subjects should have repeat labs within 7 days to document resolution.
- Grade 3 dermatologic AEs that are considered mild in severity but only considered grade 3 because of >30% body surface involvement.
- Grade 3 fatigue lasting less than 72 hours.

DLTs will be evaluated for 28 days in Cohort 1 and 21 days in Cohort 2 (1 cycle length). Management and dose modifications are outlined in **Section 5**. Dose escalation will proceed within each dose level using a 3+3 design according to **Table 3** to determine the MTD of GAX-CI. MTD is defined as the dose level in which 0 or 1 of 6 patients experiences a dose limiting toxicity with the next higher dose having at least 2 of 3 or 2 of 6 patients experiencing a DLT. Dose levels 3-5 (if MTD is not reached), or any dose levels lower than MTD, may enroll a total of 6 patients to assess tumor response per RECIST 1.1, in order to determine the recommended dose for Phase 2 expansion. The recommended dose for phase 2 portion may be a dose level at or lower than MTD, and will be determined based on the safety and tumor response data. If, however, the MTD is not chosen for expansion, then the PI will formally review the toxicity data with the other treating physicians before moving forward.

**Table 3: DLT Criteria** 

| Number of Patients<br>with DLT at a Give<br>Dose Level    | Dose Escalation Decision Rule                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 out of 3                                                | • Enter 3 patients at the next higher dose level                                                                                                                                                                                                                                                                                                                |
| 1 out of 3                                                | <ul> <li>Enter 3 more patients at this dose level</li> <li>If ≤ 1 of 6 subjects in this cohort experience a DLT, proceed to the next higher dose level</li> <li>If ≥ 2 of 6 subjects in this cohort experience a DLT, this dose level exceeded the MTD and dose escalation will be stopped. 3 subjects will be entered at the next lower dose level.</li> </ul> |
| $\geq$ 2 out of 3 or 6                                    | This dose level exceeded the MTD and dose escalation will be stopped. 3 additional patients will be entered at the next lower dose level.                                                                                                                                                                                                                       |
| ≤ 1 of 6 (and the next higher level has exceeded the MTD) | This is the MTD. At least 6 patients must be entered at the MTD level to determine the dose to be used in Part 2 of this study.                                                                                                                                                                                                                                 |

Note: The PI has the discretion to expand at the current dose level or move to other dose levels to complete and expand that level if there are no safety concerns.

Dose escalation will be conducted for the 2 cohorts separately. Dose escalation will start with Cohort 1. Enrollment for Cohort 2 dose level 1 may start once dose level 2 of Cohort 1 is shown to be safe and does not exceed MTD.

Dose escalation to Dose Level 5 will only be initiated if 4 out of 6 patients in Dose Level 4 do not have SD, PR, or CR by RECIST 1.1.

Any dose level lower than MTD, or the highest dose level tested if MTD is not reached, may enroll a total of 6 patients to assess tumor response per RECIST 1.1.

#### 4.4 General Concomitant Medication and Supportive Care Guidelines

The concurrent use of all other drugs, over-the-counter medications, or alternative therapies must be documented. The Principal Investigator should be alerted if the subject is taking warfarin, coumadin, or phenytoin. These drugs are not contra-indicated but should be monitored closely while on capecitabine.

Subjects may not enroll in any other therapeutic clinical protocol or therapeutic investigational trial while enrolled in this study. Irradiation may be allowed during the study. Administration of other chemotherapy, immunotherapy, or anti-tumor hormonal therapy during the study is not allowed.

Supportive care, including but not limited to anti-emetic medications, may be administered at the discretion of the Principal Investigator or Co-Investigators. Concurrent treatment with bisphosphonates is allowed. All concomitant treatments, including blood and blood products, must be reported on the case report form (CRF). Erythropoietin, G-CSF, or Neulasta may be administered at the discretion of the Principal Investigator or Co-Investigators.

#### 4.5 **Duration of Therapy**

In the absence of treatment delays due to adverse event(s), treatment may continue indefinitely or until one of the following criteria applies:

- Disease progression: Subjects may be allowed to continue treatment if the Principal Investigator feels that the subject is receiving benefit (e.g. a mixed response). However, subjects who continue on study with progressive disease by RECIST should be taken off study after determination of continued disease progression on the next study scan.
- Intercurrent illness that prevents further administration of treatment,
- Unacceptable adverse event(s),
- Subject decides to withdraw from the study, or
- General or specific changes in the subject's condition render the subject unacceptable for further treatment in the judgment of the investigator.

#### 4.6 **Duration of Follow Up**

Subjects will be followed for adverse events for a minimum of 28 days after the last dose of study drug or death, whichever occurs first. Survival status will be collected every 3 months (+/- 3 weeks). Subsequent therapies and responses may be collected. Subjects removed from study for unacceptable adverse event(s) will be followed until resolution or stabilization of the adverse event or death.

Subjects who discontinued study treatment without documented disease progression should continue to be monitored for disease status by radiologic imaging. Standard of care scans will be collected until: 1) start of a new antineoplastic therapy (information of the new cancer therapy will be collected), 2) disease progression, 3) death, 4) withdrawal of consent, or 5) study closure, whichever occurs first.

#### 4.7 Criteria for Removal from Study

Subjects will be removed from study when any of the criteria listed in **Section 4.5** applies. The reason for study removal and the date the subject was removed must be documented in the Case Report Form.

#### 5. DOSING DELAYS/DOSE MODIFICATIONS

Allowance of chemotherapy breaks of greater than 2 weeks will be decided on a case-by-case basis by the principal investigator. When the delay is due to toxicity, then the next cycle may begin with a dose reduction.

If the delay is due to personal reasons, there will be no dose reductions. Any treatment delays beyond the protocol allowed window must be approved by the principal investigator.

Some discretion is left up to the investigators to account for patients who may be doing exceptionally well and request a longer break from therapy or may need a little extra time for clinical and laboratory status to recover. Dose reductions will be managed based on **Table 4**. Additional dose reductions (depending on starting dose) are up to the discretion of the principal investigator. Given that there are certain toxicities that are typically associated with capecitabine (for example palmar-plantar erythrodysesthesia syndrome), investigators may choose to hold the capecitabine and decrease within a cycle (300mg po bid and 150mg po bid). In subsequent cycles, the capecitabine will continue at the lower dose but the other agents do not need to be decreased to a lower dose level unless deemed necessary due to another adverse event. For example, if a subject on DL1 (Level 0) develops grade 2 palmar-plantar erythrodysesthesia syndrome during cycle 1, the capecitabine can be held until  $\leq$  grade 1 and restarted at a lower dose. The capecitabine period, however, should not be more than the original 7 or 14 day period. The subject should receive the next cycle at DL1 (Level 0) except for the capecitabine would remain at the lower dose unless deemed necessary to use DL-1 due to another adverse event. Capecitabine dose reductions can be done independently of the dose reductions for the IV chemotherapy agents.

If patients experience bone marrow toxicity at dose level 3 in Cohort 2, patients may change the treatment schedule to the Cohort 1 schedule with a cycle length of 28 days after Cycle 6.

 Table 4: Dose Reduction

| Dose | Level    | Gemcitabine (mg/m²) | Nab-<br>paclitaxel<br>(mg/m²) | Capecitabine (mg po bid) | Cisplatin (mg/m²) | Irinotecan (mg/m²) |
|------|----------|---------------------|-------------------------------|--------------------------|-------------------|--------------------|
| DL-1 | Level 0  | 500                 | 20                            | 500                      | 20                | 20                 |
|      | Level 0  | 500                 | 40                            | 500                      | 20                | 20                 |
|      | Level -1 | 500                 | 40                            | 500                      | 20                | 0                  |
| DL1  | Level -2 | 500                 | 40                            | 500                      | 0                 | 0                  |
|      | Level -3 | 500                 | 0                             | 500                      | 0                 | 0                  |
|      | Level -4 | 500                 | 0                             | 0                        | 0                 | 0                  |
|      | Level 0  | 500                 | 60                            | 500                      | 20                | 20                 |
|      | Level -1 | 500                 | 40                            | 500                      | 20                | 20                 |
| DI 2 | Level -2 | 500                 | 40                            | 500                      | 20                | 0                  |
| DL2  | Level -3 | 500                 | 40                            | 500                      | 0                 | 0                  |
|      | Level -4 | 500                 | 0                             | 500                      | 0                 | 0                  |
|      | Level -5 | 500                 | 0                             | 0                        | 0                 | 0                  |
|      | Level 0  | 500                 | 80                            | 500                      | 20                | 20                 |
|      | Level -1 | 500                 | 60                            | 500                      | 20                | 20                 |
|      | Level -2 | 500                 | 40                            | 500                      | 20                | 20                 |
| DL3  | Level -3 | 500                 | 40                            | 500                      | 20                | 0                  |
|      | Level -4 | 500                 | 40                            | 500                      | 0                 | 0                  |
|      | Level -5 | 500                 | 0                             | 500                      | 0                 | 0                  |
|      | Level -6 | 500                 | 0                             | 0                        | 0                 | 0                  |
|      | Level 0  | 500                 | 100                           | 500                      | 20                | 20                 |
|      | Level -1 | 500                 | 80                            | 500                      | 20                | 20                 |
|      | Level -2 | 500                 | 60                            | 500                      | 20                | 20                 |
| DI 4 | Level -3 | 500                 | 40                            | 500                      | 20                | 20                 |
| DL4  | Level -4 | 500                 | 40                            | 500                      | 20                | 0                  |
|      | Level -5 | 500                 | 40                            | 500                      | 0                 | 0                  |
|      | Level -6 | 500                 | 0                             | 500                      | 0                 | 0                  |
|      | Level -7 | 500                 | 0                             | 0                        | 0                 | 0                  |
|      | Level 0  | 500                 | 125                           | 500                      | 20                | 20                 |
|      | Level -1 | 500                 | 100                           | 500                      | 20                | 20                 |
|      | Level -2 | 500                 | 80                            | 500                      | 20                | 20                 |
|      | Level -3 | 500                 | 60                            | 500                      | 20                | 20                 |
| DL 5 | Level -4 | 500                 | 40                            | 500                      | 20                | 20                 |
|      | Level -5 | 500                 | 40                            | 500                      | 20                | 0                  |
|      | Level -6 | 500                 | 40                            | 500                      | 0                 | 0                  |
|      | Level -7 | 500                 | 0                             | 500                      | 0                 | 0                  |
|      | Level -8 | 500                 | 0                             | 0                        | 0                 | 0                  |

# 5.1 Suggested Dose Modifications for Other Non-Hematologic Toxicity

Dose modifications are suggestions, but the final decision is left to the discretion of the Principal Investigator or Co-Investigator.

| <b>Event Name</b>     | Nausea                                                              |
|-----------------------|---------------------------------------------------------------------|
| <b>Grade of Event</b> | Management/Next Dose                                                |
| ≤ Grade 1             | No change in dose                                                   |
| Grade 2               | No change in dose                                                   |
| Grade 3               | Hold until ≤ Grade 2. Resume at one dose level lower, if indicated. |
| Recommended ma        | nagement: antiemetics.                                              |

| <b>Event Name</b>     | Vomiting                                                            |
|-----------------------|---------------------------------------------------------------------|
| <b>Grade of Event</b> | Management/Next Dose                                                |
| ≤ Grade 1             | No change in dose                                                   |
| Grade 2               | No change in dose                                                   |
| Grade 3-4             | Hold until < Grade 2. Resume at one dose level lower, if indicated. |
| Recommended ma        | nagement: antiemetics.                                              |

| <b>Event Name</b>                                           | Event Name Diarrhea                                                                 |  |  |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
| <b>Grade of Event</b>                                       | Management/Next Dose                                                                |  |  |
| ≤ Grade 1                                                   | No change in dose                                                                   |  |  |
| Grade 2                                                     | No change in dose                                                                   |  |  |
| Grade 3-4                                                   | Hold until < Grade 2. Resume at one dose level lower, if indicated.                 |  |  |
| Recommended management: Loperamide anti-diarrheal therapy   |                                                                                     |  |  |
| Dosage schedule:                                            | Dosage schedule: 4 mg at first onset, followed by 2 mg with each loose motion until |  |  |
| diarrhea-free for 12 hours (maximum dosage: 16 mg/24 hours) |                                                                                     |  |  |
| Adjunct anti-diarrh                                         | neal therapy is permitted and should be recorded when used.                         |  |  |

| <b>Event Name</b>     | Peripheral Neuropathy                                               |
|-----------------------|---------------------------------------------------------------------|
| <b>Grade of Event</b> | Management/Next Dose                                                |
| ≤ Grade 1             | No change in dose                                                   |
| Grade 2               | No change in dose                                                   |
| Grade 3-4             | Hold until ≤ Grade 2. Resume at one dose level lower, if indicated. |
| Recommended ma        | nagement: consider medications for neuropathy.                      |

| <b>Event Name</b>     | Fatigue                                                             |
|-----------------------|---------------------------------------------------------------------|
| <b>Grade of Event</b> | Management/Next Dose                                                |
| ≤ Grade 1             | No change in dose                                                   |
| Grade 2               | No change in dose                                                   |
| Grade 3               | Hold until ≤ Grade 2. Resume at one dose level lower, if indicated. |

| <b>Event Name</b>                                    | Palmar-plantar erythrodysesthesia syndrome                                                                                      |  |  |  |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>Grade of Event</b>                                | Management/Next Dose                                                                                                            |  |  |  |
| ≤ Grade 1                                            | No change in dose                                                                                                               |  |  |  |
| Grade 2                                              | Hold capecitabine until ≤ Grade 1. Resume at capecitabine 300mg po bid. For 2 <sup>nd</sup> occurrence, resume at 150mg po bid. |  |  |  |
| Grade 3                                              | Hold capecitabine until ≤ Grade 1. Resume at capecitabine 300mg po bid. For 2 <sup>nd</sup> occurrence, resume at 150mg po bid. |  |  |  |
| Recommended management: moisturizers to intact skin. |                                                                                                                                 |  |  |  |

# 5.2 Suggested Dose Modifications for Hematologic Toxicity

# Cohort 1

| Event Name Neutropenia                  |                                                          |  |  |  |
|-----------------------------------------|----------------------------------------------------------|--|--|--|
| Laboratory Value                        | Management/Next Dose                                     |  |  |  |
| Day 1 and 15 of cycle:                  | Hold until $\geq$ 1000, no change in dose. Resume at one |  |  |  |
| <1000/mcL                               | dose level lower, if indicated. Transient grade 3        |  |  |  |
|                                         | neutropenia may occur during days 15-28 of a cycle.      |  |  |  |
| The use of growth factors is permitted. |                                                          |  |  |  |

| Event Name                                                                | Thrombocytopenia                                         |  |  |  |  |
|---------------------------------------------------------------------------|----------------------------------------------------------|--|--|--|--|
| Laboratory Value                                                          | Management/Next Dose                                     |  |  |  |  |
| Day 1 and 15 of cycle: $<70 \text{ x}$                                    | Hold until ≥70, no change in dose                        |  |  |  |  |
| $10^{9}/L$                                                                |                                                          |  |  |  |  |
| Grade 3-4                                                                 | Hold until $\geq$ 70. Resume at one dose level lower, if |  |  |  |  |
|                                                                           | indicated.                                               |  |  |  |  |
| A platelet goal of 50K should be considered for those on anticoagulation. |                                                          |  |  |  |  |

# Cohort 2

| Event Name                      | Neutropenia                                                                                                                          |  |  |  |  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Laboratory Value                | Management/Next Dose                                                                                                                 |  |  |  |  |
| Day 4 of cycle: <1000/mcL       | Hold until $\geq$ 1000, no change in dose                                                                                            |  |  |  |  |
| Day 11 of cycle: <900/mcL       | Hold until ≥900. Resume at one dose level lower, if indicated. Transient grade 3 neutropenia may occur during days 15-21 of a cycle. |  |  |  |  |
| The use of growth factors is po | ermitted.                                                                                                                            |  |  |  |  |

| <b>Event Name</b>                                                         | Thrombocytopenia                                         |  |  |  |  |
|---------------------------------------------------------------------------|----------------------------------------------------------|--|--|--|--|
| Laboratory Value                                                          | Management/Next Dose                                     |  |  |  |  |
| Day 4 of cycle: $< 80 \times 10^9 / L$                                    | Hold until $\geq$ 80, no change in dose                  |  |  |  |  |
| Day 11 of cycle: $<70 \times 10^9/L$                                      | Hold until ≥70, no change in dose                        |  |  |  |  |
| Grade 3-4                                                                 | Hold until $\geq$ 70. Resume at one dose level lower, if |  |  |  |  |
|                                                                           | indicated.                                               |  |  |  |  |
| A platelet goal of 50K should be considered for those on anticoagulation. |                                                          |  |  |  |  |

#### 6. ADVERSE EVENTS: LIST AND REPORTING REQUIREMENTS

This study will use the descriptions and grading scales found in the revised National Cancer Institute Common Terminology Criteria for Adverse Events (CTCAE) Version 5.0 for adverse event reporting.

#### 6.1 Definitions

#### 6.1.1 Adverse Event (AE)

Adverse event is defined as any undesirable sign, symptom or medical condition occurring after starting the study drug (or therapy) even if the event is not considered to be related to the study. An undesirable medical condition can be symptoms (e.g., nausea, chest pain), signs (e.g., tachycardia, enlarged liver) or the abnormal results of an investigation (e.g., laboratory findings, electrocardiogram). Medical conditions/diseases present before starting the study treatment are only considered adverse events if they worsen after starting the study treatment (any procedures specified in the protocol). Adverse events occurring before starting the study treatment but after signing the informed consent form will not be recorded. Abnormal laboratory values or test results constitute adverse events only if they induce clinical signs or symptoms or require therapy.

#### **6.1.2** Serious Adverse Event (SAE)

A serious adverse event is an undesirable sign, symptom or medical condition which:

- Results in death
- Is life threatening (defined as an event in which the subject was at risk of death at the time of the event; it does not refer to an event which hypothetically might have caused death if it were more severe)
- Requires inpatient hospitalization or causes prolongation of existing hospitalization (see note below for exceptions)  $\geq$  24 hours
- Results in persistent or significant disability/incapacity
- Is a congenital anomaly/birth defect (note: reports of congenital anomalies/birth defects must also be reported on the Pregnancy Supplemental Form)
- Is an important medical event (defined as a medical event(s) that may not be immediately life-threatening or result in death or hospitalization but, based upon appropriate medical and scientific judgment, may jeopardize the subject or may require intervention [e.g., medical, surgical] to prevent one of the other serious outcomes listed in the definition above.). Examples of such events include, but are not limited to, intensive treatment in an emergency room or at home for allergic bronchospasm; blood dyscrasias or convulsions that do not result in hospitalization.)
- Is a new cancer (that is not a condition of the study)
- Is associated with an overdose

Events **not** considered to be serious adverse events are hospitalizations for the:

- Admissions as per protocol for a planned medical/surgical procedure or to facilitate a procedure
- Routine health assessment requiring admission for baseline/trending of health status (e.g., routine colonoscopy)
- Medical/surgical admission for purpose other than remedying ill health state and was planned prior to entry into the study. Appropriate documentation is required in these cases
- Admission encountered for another life circumstance that carries no bearing on health status and requires no medical/surgical intervention (e.g., lack of housing, economic inadequacy, care-giver respite, family circumstances, administrative).
- Admissions for monitoring of treatment-related infusion reactions that do not otherwise meet the criteria for a SAE.

#### 6.2 Relationship

The relationship of an AE to the administration of the study drug is to be assessed by the investigator according to the following definitions:

- No (unrelated, not related, no relation): The time course between the administration of study drug and the occurrence or worsening of the adverse event rules out a causal relationship and another cause (concomitant drugs, therapies, complications, etc.) is suspected.
- Yes (related): The time course between the administration of study drug and the occurrence or worsening of the adverse event is consistent with a causal relationship and no other cause (concomitant drugs, therapies, complications, etc.) can be identified.

The following factors should also be considered:

- The temporal sequence from study drug administration The event should occur after the study drug is given. The length of time from study drug exposure to event should be evaluated in the clinical context of the event.
- Underlying, concomitant, intercurrent diseases Each report should be evaluated in the context of the natural history and course of the disease being treated and any other disease the subject may have.
- Concomitant medication The other medications the subject is taking or the treatment the subject receives should be examined to determine whether any of them might be recognized to cause the event in question.
- Known response pattern for this class of study drug Clinical and/or preclinical data may indicate whether a particular response is likely to be a class effect.
- Exposure to physical and/or mental stresses The exposure to stress might induce adverse changes in the recipient and provide a logical and better explanation for the event.
- The pharmacology and pharmacokinetics of the study drug The known pharmacologic properties (absorption, distribution, metabolism, and excretion) of the study drug should be considered.

#### 6.3 Expectedness

<u>Unexpected adverse event</u>: An adverse event, which varies in nature, intensity or frequency from information on the investigational drug/agent provided in the Investigator's Brochure, package insert or safety reports. Any adverse event that is not included in the informed consent is considered "unexpected".

Expected (known) adverse event: An adverse event, which has been reported in the Investigator's Brochure. An adverse event is considered "expected", only if it is included in the informed consent document as a risk.

### 6.4 Reporting

Information about all adverse events, whether volunteered by the subject, discovered by investigator questioning, or detected through physical examination, laboratory test or other means, will be collected, recorded, and followed as appropriate.

All adverse events experienced by subjects will be collected and reported from the first dose of the investigational combination (GAX-CI), throughout the study, and will only be followed for 30 days unless related to the investigational agent.

Subjects who have an ongoing adverse event related to the study procedures and/or medication(s) may continue to be periodically contacted by a member of the study staff until the event is resolved or determined to be irreversible by the investigator.

#### **6.4.1 Routine Adverse Event Reporting**

If an ongoing AE changes in its intensity or in its perceived relationship to investigational product, a new AE entry for the event should be completed. Adverse events should be followed to resolution or stabilization, or reported as SAEs if they become serious. Follow-up is also required for AEs that cause interruption or discontinuation of investigational product, or those that are present at the end of study participation. Subjects with AEs at study completion should receive post-treatment follow-up as appropriate.

All identified non-serious AEs must be recorded and described on the appropriate Adverse Event Case Report Form (CRF).

#### **6.4.2** Laboratory Test Abnormalities

Laboratory abnormalities present at the screening visit will be recorded as pre-treatment signs and symptoms. After study treatment administration, all grade 3 and 4 clinical laboratory results that represent an increase in severity from baseline will be reported as adverse events. A grade 1 or 2 clinical laboratory abnormality should be reported as an adverse event only if it is considered clinically significant by the investigator.

In addition, the following laboratory abnormalities should also be captured on the AE CRF

page or SAE Reporting Form (**Appendix D**) as appropriate:

- Any laboratory test result that is clinically significant or meets the definition of an SAE
- Any laboratory abnormality that required the subject to have the investigational product discontinued or interrupted
- Any laboratory abnormality that required the subject to receive specific corrective therapy

It is expected that wherever possible, the clinical, rather than the laboratory term would be used by the reporting investigator (e.g., anemia versus low hemoglobin value).

#### **6.4.3 Serious Adverse Event Reporting**

All SAEs (including deaths) occurring from the first dose of the study drug through 30 days after the last dose of study drug will be collected and recorded on the Adverse Event Case Report Form (CRF) and SAE Reporting Form (**Appendix D**).

SAEs will be reported to the Johns Hopkins Medicine IRB per institutional guidelines.

Adverse events that are serious, unexpected, and assessed by the investigator to be related to the study drug will be reported <u>within 24 hours</u> of becoming aware of the event occurrence to the post-marketing departments of the drug manufacturers (contact pharmacy to verify the manufacturer).

After the initial SAE report, the investigator is required to proactively follow each subject and provide further information in regards to the subject's condition.

All AE(s) and SAE(s) will be followed until:

- Resolution
- The condition stabilizes
- The event is otherwise explained
- The subject is lost to follow-up
- Death

#### 6.4.4 Overdose

An overdose is defined as the accidental or intentional ingestion of any dose of a product that is considered both excessive and medically important. All occurrences of overdose must be reported as an SAE.

#### 6.4.5 Pregnancy

Sexually active women of child bearing potential (WOCBP) must use an effective method of birth control during the course of the study, in a manner such that risk of failure is minimized.

Prior to study enrollment, WOCBP must be advised of the importance of avoiding pregnancy during study participation and the potential risk factors for an unintentional pregnancy. The subject must sign an informed consent form documenting this discussion.

ALL WOCBP MUST HAVE A NEGATIVE SERUM PREGNANCY TEST 7 DAYS PRIOR TO RECEIVING INVESTIGATIONAL PRODUCT. All WOCBP should be instructed to contact the investigator immediately if they suspect they may be pregnant (e.g., missed or late menstrual period) at any time during study participation.

If, following initiation of the investigational product, it is subsequently discovered that a study subject is pregnant or may have been pregnant at the time of the investigational product exposure, including during at least 6 half-lives after product administration, the investigational product will be permanently discontinued in an appropriate manner. Exceptions to the investigational product discontinuation may be considered for life-threatening conditions only after consultation with the sponsor or as otherwise specified in this protocol. The investigator must immediately notify the sponsor of this event, record the pregnancy on the SAE form. Initial information on a pregnancy must be reported immediately to the sponsor and the outcome information provided once the outcome is known. Forward these forms to the sponsor according to SAE reporting procedures.

Protocol-required procedures for study discontinuation and follow-up must be performed on the subject unless contraindicated by pregnancy (e.g., x-rays studies). Other appropriate pregnancy follow-up procedures should be considered if indicated. Follow-up information regarding the course of the pregnancy, including perinatal and neonatal outcome must be reported. Infants should be followed for a minimum of 8 weeks.

#### **6.4.6** Other Safety Considerations

Any significant changes noted during interim or final physical examinations, electrocardiograms, x-rays, and any other potential safety assessments, whether or not these procedures are required by protocol, should also be recorded on the appropriate non-serious AE or SAE page of the CRF.

#### 7. PHARMACEUTICAL INFORMATION

#### 7.1 Nab-paclitaxel (Abraxane)

For complete details on drug administration, storage, clinical pharmacology, and the human pharmacokinetics of nab-paclitaxel please see the nab-paclitaxel prescribing information.

#### **Description, Formulation, and Storage**

Nab-paclitaxel (albumin-bound form of paclitaxel) a microtubule inhibitor that promotes the assembly of microtubules from tubulin dimers and stabilizes microtubules by preventing depolymerization. This stability results in the inhibition of the normal dynamic reorganization of J1847, Version 9.0, April 8, 2022

the microtubule network that is essential for vital interphase and mitotic cellular functions. Paclitaxel induces abnormal arrays or "bundles" of microtubules throughout the cell cycle and multiple asters of microtubules during mitosis.

Nab-paclitaxel is a white to yellow, sterile, lyophilized powder for reconstitution with 20 mL of 0.9% Sodium Chloride Injection, USP prior to intravenous infusion. Each single-use vial contains 100 mg of paclitaxel (bound to human albumin) and approximately 900 mg of human albumin (containing sodium caprylate and sodium acetyltryptophanate). Each milliliter (mL) of reconstituted suspension contains 5 mg paclitaxel. Nab-paclitaxel is free of solvents.

Nab-paclitaxel should be stored between 20 and 25°C (68°F-77°F) in a secure and dry place. Retain in the original package to protect from bright light. Neither freezing nor refrigeration adversely affects the stability of the product.

#### **Preparation and Administration**

Nab-paclitaxel reconstitution, preparation, and administration should be completed according to the manufacturer's recommendation.

Nab-paclitaxel may be administered on an outpatient basis. Nab-paclitaxel should be administered on day 1 and 15 for patients in Cohort 1 and day 4 and 11 for patients in Cohort 2 of each cycle by intravenous infusion over 30 minutes. Infusion times are approximate and may need to be adjusted based on patient tolerability.

Nab-paclitaxel doses may be rounded to the nearest whole and half-vial size (50 and 100 mg) and within 10% of the patient's ordered dose.

Reconstituted nab-paclitaxel in the vial should be used immediately, but may be refrigerated at 2°C to 8°C (36°F to 46°F) for a maximum of 8 hours if necessary. If not used immediately, each vial of reconstituted suspension should be replaced in the original carton to protect it from bright light. Discard any unused portion.

The suspension for infusion when prepared as recommended in an infusion bag should be used immediately but may be stored at ambient temperature (approximately 25°C) and lighting conditions for up to 4 hours. Discard any unused portion.

#### **Toxicities of Nab-paclitaxel**

Please see the nab-paclitaxel prescription information for more details on the known precautions, warnings, and adverse reactions of nab-paclitaxel. The most common adverse reactions (≥ 20%) in metastatic pancreas cancer patients are neutropenia, fatigue, peripheral neuropathy, nausea, alopecia, peripheral edema, diarrhea, pyrexia, vomiting, decreased appetite, rash, and dehydration. Fetal harm can occur when administered to a pregnant woman. Women of childbearing potential should be advised not to become pregnant when receiving nab-paclitaxel.

#### **Subject Care Implications**

The metabolism of paclitaxel is catalyzed by CYP2C8 and CYP3A4. In the absence of formal clinical drug interaction studies, caution should be exercised when administering nab-paclitaxel concomitantly with medicines known to inhibit (e.g., ketoconazole and other imidazole antifungals, erythromycin, fluoxetine, gemfibrozil, cimetidine, ritonavir, saquinavir, indinavir, and nelfinavir) or induce (e.g., rifampicin, carbamazepine, phenytoin, efavirenz, and nevirapine) either CYP2C8 or CYP3A4.

#### 7.2 Gemcitabine

For complete details on preparation instructions, storage, clinical pharmacology, a comprehensive list of adverse events and the human pharmacokinetics of Gemcitabine, please see the Gemcitabine prescribing information.

#### **Description, Formulation, and Storage**

Gemcitabine (difluorodeoxycytidine) is a pyrimidine antimetabolite, which is an analogue of deoxycytidine. It was initially synthesized as a potential antiviral drug but selected for anticancer development because of its activity in *in-vivo* and *in vitro* tumors. Gemcitabine is approved for the treatment of patients with pancreatic cancer and will be obtained commercially. Gemcitabine is commercially supplied as a powder for reconstitution in 200 mg and 1 gm vials.

Intact vials containing sterile powder are stored at room temperature (20° to 25°C) (68° to 77°F). Gemcitabine solutions are stable for 24 hours at controlled room temperature of 20° to 25°C (68° to 77°F). Do not refrigerate as crystallization can occur. The diluted solution should be clear and colorless to light straw-colored solution

#### **Preparation and Administration**

Reconstitute the 200 mg vial with 5 mL 0.9% NaCl and the 1 g vial with 25 mL 0.9%NaCl. The resulting solution is approximately 38 mg/mL, but the concentration varies. It is suggested that when the desired dose is less than the entire vial, the entire volume be drawn up into a syringe in order to determine the actual concentration. Then the desired amount should be measured and diluted in 0.9%NaCl for infusion. Reconstituted solution should be further diluted in 100 ml NS for intravenous infusion.

In this study, Gemcitabine may be administered on an outpatient basis. Gemcitabine should be administered on day 1 and 15 for patients in Cohort 1 and day 4 and 11 for patients in Cohort 2 of each cycle by intravenous infusion over 30 minutes following the nab-paclitaxel infusion. Infusion times are approximate and may need to be adjusted based on patient tolerability.

#### **Toxicities of Gemcitabine**

Please see the Gemcitabine prescribing information for more details on the known precautions, warnings, and adverse reactions of Gemcitabine. Gemcitabine can suppress bone marrow function as manifested by leukopenia, thrombocytopenia and anemia, and myelosuppression is usually the dose-limiting toxicity. Subjects should be monitored for myelosuppression during therapy. J1847, Version 9.0, April 8, 2022

Hemolytic-Uremic Syndrome (HUS) has been reported rarely with the use of Gemcitabine. Gemcitabine is a Pregnancy Category D drug. Gemcitabine can cause fetal harm when administered to a pregnant woman. Gemcitabine is embryotoxic causing fetal malformations (cleft palate, incomplete ossification) at doses of 1.5 mg/kg/day in mice (about 1/200 the recommended human dose on a mg/m² basis). Gemcitabine is fetotoxic causing fetal malformations (fused pulmonary artery, absence of gall bladder) at doses of 0.1 mg/kg/day in rabbits (about 1/600 the recommended human dose on a mg/m² basis). Embryotoxicity was characterized by decreased fetal viability, reduced live litter sizes, and developmental delays. There are no studies of Gemcitabine in pregnant women. If Gemcitabine is used during pregnancy, or if the subject becomes pregnant while taking Gemcitabine, the subject should be apprised of the potential hazard to the fetus.

#### 7.3 Capecitabine

For complete details on drug administration, storage, clinical pharmacology, and the human pharmacokinetics of capecitabine, please see the capecitabine prescribing information.

#### **Description, Formulation, and Storage**

Capecitabine is a fluoropyrimidinecarbamate with antineoplastic activity. It is an orally administered systemic prodrug of 5'-deoxy-5-fluorouridine (5'-DFUR) which is converted to 5-fluorouracil. Normal cells, as well as tumor cells metabolize 5- Fluorouracil into 5-fluoro-2'-deoxyuridine monophosphate (FdUMP) and 5-fluorouridine triphosphate (FUTP). Both are metabolites that cause cell injury by two different mechanisms. FdUMP and the folate factor, N5-10-methylenetetrahydrofolate, bind to thymidylate synthase (TS) to inhibit the formation of thymidylate. This deficiency of thymidylate causes cell cycle division to halt. This is because thymidalate is necessary for thymidine triphosphate production, which is essential for DNA synthesis. FUTP works by incorporating itself into transcription in place of uridine triphosphate therefore interfering with RNA transcription and protein synthesis.

Capecitabine is supplied as either 150 mg or 500 mg peach to light peach, oblong, film-coated, biconvex tablets for oral administration.

Capecitabine will be provided as an outpatient prescription. Capecitabine should be stored at 25°C (77°F); excursions permitted to 15° to 30°C (59° to 86°F). Keep tightly closed.

#### **Dosing and Administration of Capecitabine**

Capecitabine will be administered on an outpatient basis. Capecitabine will be given by oral administration twice daily on days 1-7 and 15-21 for patient in Cohort 1 and on days 1-14 for patient in Cohort 2 of each cycle. Capecitabine tablets should be taken within 30 minutes after the end of a meal and swallowed with water.

#### **Toxicities of Capecitabine**

Please see the capecitabine prescribing information for more details on the known precautions,

warnings, and adverse reactions of capecitabine. The most common side effects of capecitabine are diarrhea, nausea, vomiting, stomatitis, abdominal pain, upset stomach, constipation, loss of appetite, dehydration, hand-and-foot syndrome (palms of the hands or soles of the feet tingle, become numb, painful, swollen or red), rash, dry, itchy or discolored skin, nail problems, hair loss, tiredness, weakness, dizziness, headache, fever, pain (including chest, back, joint, and muscle pain), trouble sleeping, and taste problems. Capecitabine is a Pregnancy Category D drug. Women of childbearing potential should be advised to avoid becoming pregnant while receiving treatment with capecitabine. If capecitabine is used during pregnancy, or if the subject becomes pregnant while taking capecitabine, the subject should be apprised of the potential hazard to the fetus.

#### 7.4 Cisplatin

For complete details on drug administration, storage, clinical pharmacology, and the human pharmacokinetics of Cisplatin, please see the Cisplatin prescribing information.

#### **Description, Formulation, and Storage**

Cisplatin (cis-diamminedichloroplatinum) is a heavy metal complex containing a central atom of platinum surrounded by two chloride atoms and two ammonia molecules in the cis position. Cisplatin inhibits DNA synthesis by forming inter- and intra-strand crosslinks. Other possible mechanisms include chelation of DNA and binding to cell membranes thereby stimulating immune mechanisms.

Cisplatin Injection is a sterile aqueous solution, available commercially in 50, 100 and 200 mL multiple dose vials, each mL containing 1 mg of cisplatin and 9 mg sodium chloride in water for injection. HCl and/or sodium hydroxide added to adjust pH to 3.5 to 4.5.

Intact vials should be stored at room temperature and be protected from light. Solutions diluted in 0.9% or 0.45% NaCl to a concentration of 0.05-2mg/mL are stable for up to 72 hours at room temperature and protected from light.

#### **Preparation and Administration**

Unopened vials of dry powder are stable for the lot life indicated on the package when stored at room temperature (25° C, 77° F). The reconstituted solution is stable for 20 hours at room temperature (25° C, 77° F). Solution removed from the amber vial should be protected from light if it is not to be used within six hours. Once reconstituted, the solution should be kept at room temperature (25° C, 77° F). If the reconstituted solution is refrigerated a precipitate will form.

Cisplatin may be administered on an outpatient basis. Cisplatin should be administered on day 1 and 15 for patients in Cohort 1 and day 4 and 11 for patients in Cohort 2 of each cycle by intravenous infusion over 60 minutes following the gemcitabine infusion. Infusion times are approximate and may need to be adjusted based on patient tolerability. Cisplatin should be administered in 250 mL NaCl, following intravenous hydration with at least 500 ml of normal saline. 500ml of normal saline may also be administered after cisplatin. Needles, syringes,

catheters, or IV administration sets containing aluminum parts should not be used, as contact with cisplatin yields a black precipitate.

#### **Toxicities of Cisplatin**

Please see the Cisplatin prescribing information for more details on the known precautions, warnings, and adverse reactions of Cisplatin. Common side effects include myelosuppression, nausea, vomiting, anorexia, elevation of BUN and creatinine, hyperuricemia, renal tubular damage, rare cardiac abnormalities, taste alteration, peripheral neuropathy, seizures, anaphylactoid and urticarial reactions (acute), rash, fatigue, otoxicity including hearing loss or tinnitus, and loss of muscle function. Cisplatin can cause fetal harm when administered to a pregnant woman. Cisplatin is mutagenic in bacteria and produces chromosome aberrations in animal cells in tissue culture. In mice, cisplatin is teratogenic and embryotoxic. If this drug is used during pregnancy or if the subject becomes pregnant while taking this drug, the subject should be apprised of the potential hazard to the fetus. Subjects should be advised to avoid becoming pregnant.

#### 7.5 Irinotecan

For complete details on drug administration, storage, clinical pharmacology, and the human pharmacokinetics of Irinotecan, please see the Irinotecan prescribing information.

#### **Description, Formulation, and Storage**

Irinotecan is a derivative of camptothecin. Camptothecins interact specifically with the enzyme topoisomerase I, which relieves torsional strain in DNA by inducing reversible single-strand breaks. Irinotecan and its active metabolite SN-38 bind to the topoisomerase IDNA complex and prevent re-ligation of these single-strand breaks. Current research suggests that the cytotoxicity of irinotecan is due to double-strand DNA damage produced during DNA synthesis when replication enzymes interact with the ternary complex formed by topoisomerase I, DNA, and either irinotecan or SN-38. Mammalian cells cannot efficiently repair these double-strand breaks.

Irinotecan is a sterile, pale yellow, clear, aqueous solution. It is available in three single-dose sizes in brown glass vials: 2 mL-fill vials contain 40 mg irinotecan hydrochloride, 5 mL-fill vials contain 100 mg irinotecan hydrochloride, and 15 mL-fill vials contain 300 mg irinotecan hydrochloride. Each milliliter of solution contains 20 mg of irinotecan hydrochloride (on the basis of the trihydrate salt), 45 mg of sorbitol, NF, and 0.9 mg of lactic acid, USP. The pH of the solution has been adjusted to 3.5 (range, 3.0 to 3.8) with sodium hydroxide or hydrochloric acid.

Store at controlled room temperature 15° to 30°C (59° to 86°F). Protect from light. It is recommended that the vial should remain in the carton until the time of use.

#### **Preparation and Administration**

Dilute irinotecan with 5% Dextrose Injection, USP (D5W), or 0.9% Sodium Chloride Injection, USP, prior to intravenous infusion. The solution is physically and chemically stable for up to 24 hours at room temperature and in ambient fluorescent lighting. Solutions diluted in 5% dextrose

Injection, USP, and stored at refrigerated temperatures (approximately 2° to 8°C, 36° to 46°F), and protected from light are physically and chemically stable for 48 hours. Refrigeration of admixtures using 0.9% Sodium Chloride Injection, USP, is not recommended due to a low and sporadic incidence of visible particulates. Freezing irinotecan and admixtures of irinotecan may result in precipitation of the drug and should be avoided.

The irinotecan injection solution should be used immediately after reconstitution as it contains no antibacterial preservative. Irinotecan may be administered on an outpatient basis and should be administered on day 1 and 15 for patients in Cohort 1 and day 4 and 11 for patients in Cohort 2 of each cycle by intravenous infusion over 30 minutes following the Cisplatin infusion. Infusion times are approximate and may need to be adjusted based on patient tolerability.

#### **Toxicities of Irinotecan**

Please see the Irinotecan prescribing information for more details on the known precautions, warnings, and adverse reactions of Irinotecan. Common adverse reactions ( $\geq$ 30%) observed in combination therapy clinical studies are: nausea, vomiting, abdominal pain, diarrhea, constipation, anorexia, mucositis, neutropenia, leukopenia (including lymphocytopenia), anemia, thrombocytopenia, asthenia, pain, fever, infection, abnormal bilirubin, alopecia. Common adverse reactions ( $\geq$ 30%) observed in single agent therapy clinical studies are: nausea, vomiting, abdominal pain, diarrhea, constipation, anorexia, neutropenia, leukopenia (including lymphocytopenia), anemia, asthenia, fever, body weight decreasing, alopecia.

#### **Subject Care Implications**

Irinotecan and its active metabolite, SN-38, are metabolized via the human cytochrome P450 3A4 isoenzyme (CYP3A4) and uridine diphosphate-glucuronosyl transferase 1A1 (UGT1A1), respectively. Patients receiving concomitant ketoconazole, a CYP3A4 and UGT1A1 inhibitor, have increased exposure to irinotecan and its active metabolite SN-38. Co-administration of Irinotecan with other inhibitors of CYP3A4 (e.g., clarithromycin, indinavir, itraconazole, lopinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telaprevir, voriconazole) or UGT1A1 (e.g., atazanavir, gemfibrozil, indinavir) may increase systemic exposure to irinotecan or SN-38. Discontinue strong CYP3A4 inhibitors at least 1 week prior to starting Irinotecan therapy. Do not administer strong CYP3A4 or UGT1A1 inhibitors with Irinotecan unless there are no therapeutic alternatives.

#### 8. CORRELATIVE/SPECIAL STUDIES

Research samples will be collected at the discretion of the PI based on availability of supplies and safety of patient and staff.

#### 8.1 Plasma Marker Studies

To assess tumor burden dynamics over the course of this study we will collect plasma at baseline and with the second on study follow-up scan. An optional off study plasma sample may be collected. Whole blood will be collected in two 10 milliliter plasma preparation tubes with EDTA

(PPT, BD Vacutainer, Franklin Lakes, NJ) at the designated time points and processed using standard laboratory procedures within one hour of collection. Using a pipette, plasma will be transferred to sterile 15 mL conical tube and stored at -80°C. Stored samples will be used to measure circulating tumor DNA<sup>10</sup>.

#### **8.2** Whole Blood Studies

To assess the baseline characteristic of the subjects enrolled and to correlate these molecular and clinicopathologic criteria with treatment response and toxicity, whole blood will be collected in a 10 milliliter plasma preparation tube with EDTA (PPT, BD Vacutainer, Franklin Lakes, NJ). Within two hours of collection, aliquots of 1 mL of whole blood will be transferred into 2 mL tubes and stored at -80°C. This will be collected at baseline only.

DNA may be extracted from whole blood and used to evaluate for any germline mutations that may correlate with response or toxicity. These may include, but are not limited to FANC GENES, PALB2, BRCA1 and BRCA2.

#### **8.3** Tumor Tissue Studies

Tumor tissue specific somatic genetic changes and aberrations in protein expression may be explored in archived tumor tissue obtained prior to treatment on this protocol if blocks or slides are readily available.

#### 8.4 Genomic Analysis

Genomic sequencing library construction, whole genome/exome sequencing, whole transcriptome sequencing, microbial sequencing, neoepitope prediction, mutation burden, and bioinformatic analysis will be performed either at an on-campus laboratory or at an off-campus sequencing service. All the samples will be de-identified before sending to any laboratory for sequencing. The FASTQ files, BAM files and VCF files will be generated and analyzed.

Genomic sequencing data will be stored and computations conducted using a JH IT managed subscription of Azure.

#### Clinical analysis

Several CLIA-certified laboratories now offer molecular profiling of cancer specimens in commercial and noncommercial settings and provide these results to patients and their physicians (e.g. Foundation Medicine, PGDx, Michigan Center for Translational Pathology, or JHU CLIA Laboratories). It is possible, therefore, that some of our research analyses will be conducted in these CLIA-certified environments. If tissue or cells are evaluated with next generation sequencing strategies to provide a molecular profile of individual cancer specimens in a CLIA-certified facility, these results will be made available to the patient and their physician. Patient confidentiality will be maintained, and the patient's identity will not be publicly linked to any study results. Researchers may use the data set generated in the CLIA assay setting to study genetic alterations across a large number of genes important in cancer. Germline mutations are

only identified in punitive cancer genes. Researchers will use the data set for exploratory research to study cancer cell heterogeneity. Some of the sequencing data obtained from the NGS strategies will be uploaded to government sponsored databases, such as GEO and dbGAP. The results of the research studies may be published but subjects will not be identified in any publication.

If a germline alteration of clinical importance (as judged by the Investigator) to the subject and his or her family members is identified by a CLIA-certified test in the course of this analysis, attempts will be made in writing to contact the subject and/or family members for genetic counseling referral.

#### 9. STUDY CALENDAR

Baseline evaluations are to be conducted within 28 days prior to start of protocol therapy. Scans and x-rays must be done  $\leq 21$  days prior to the start of therapy. In the event that the subject's condition is deteriorating, laboratory evaluations should be repeated within 48 hours prior to initiation of the next cycle of therapy. If a patient in Cohort 2 starts capecitabine on days 1-3 and becomes ineligible for the intravenous chemotherapy, then this course would not be considered a cycle.

# 9.1 Cohort 1

|                                                    |         |                      | Cycle (28 days) |             |              |           |               |            |              |  |
|----------------------------------------------------|---------|----------------------|-----------------|-------------|--------------|-----------|---------------|------------|--------------|--|
|                                                    | Consent | Pre-Study (baseline) | Day 1           | Days<br>2-7 | Days<br>8-14 | Day<br>15 | Days<br>16-21 | Days 22-28 | Off<br>Study |  |
| Visit Windows (days) <sup>1</sup>                  |         | -28 to 0             | ± 4             |             |              | ± 4       |               |            | ± 28         |  |
| Nab-paclitaxel                                     |         |                      | A               |             |              | A         |               |            |              |  |
| Gemcitabine                                        |         |                      | В               |             |              | В         |               |            |              |  |
| Capecitabine                                       |         |                      | С —             | <b>—</b>    |              | С —       | <b></b>       |            |              |  |
| Cisplatin                                          |         |                      | D               |             |              | D         |               |            |              |  |
| Irinotecan                                         |         |                      | Е               |             |              | Е         |               |            |              |  |
| Informed consent                                   | X       |                      |                 |             |              |           |               |            |              |  |
| Demographics (ethnicity and religion) <sup>2</sup> |         | X                    |                 |             |              |           |               |            |              |  |
| Medical history                                    |         | X                    |                 |             |              |           |               |            |              |  |
| Family history of cancer                           |         | X                    |                 |             |              |           |               |            |              |  |
| Concurrent meds                                    |         | X                    | X               |             |              | X         |               |            | X            |  |
| Physical exam                                      |         | X                    | X               |             |              | X         |               |            | X            |  |
| Vital signs <sup>3</sup>                           |         | X                    | X               |             |              | X         |               |            | X            |  |
| Height <sup>4</sup>                                |         | X                    |                 |             |              |           |               |            |              |  |
| Weight                                             |         | X                    | X               |             |              | X         |               |            | X            |  |
| Performance status                                 |         | X                    | X               |             |              | X         |               |            | X            |  |
| CBC w/diff, plts <sup>5</sup>                      |         | X                    | X               |             |              | X         |               |            | X            |  |
| Serum chemistry <sup>5,6</sup>                     |         | X                    | X               |             |              | X         |               |            | X            |  |
| CA19-9/CEA <sup>7</sup>                            |         | X                    | X               |             |              |           |               |            |              |  |
| C-reactive protein                                 |         | X                    |                 |             |              |           |               |            |              |  |
| AE evaluation                                      |         |                      | X               |             |              | X         |               |            | X            |  |
| Radiologic evaluation/<br>RECIST <sup>8</sup>      |         | X                    | X               |             |              |           |               |            |              |  |
| B-HCG <sup>9</sup>                                 |         | X                    |                 |             |              |           |               |            |              |  |
| Plasma Sample <sup>10, 13</sup>                    |         | X                    | X               |             |              |           |               |            | X            |  |
| Whole Blood Sample <sup>11, 13</sup>               |         | X                    |                 |             |              |           |               |            |              |  |
| Archived Tumor Sample <sup>12,</sup>               |         | X                    |                 |             |              |           |               |            |              |  |

In order to minimize the need for research-only in-person visits, telemedicine visits may be substituted for in person clinical trial visits or portions of clinical trial visits where determined to be appropriate and where determined by the investigator not to increase the participants risks. Prior to initiating telemedicine for study visits the study team will explain to the participant, what a telemedicine visit entails and confirm that the study participant is in agreement and able to proceed with this method. Telemedicine acknowledgement will be obtained in accordance with the Guidance for Use of Telemedicine in Research. In the event telemedicine is not deemed feasible, the study visit will proceed as an in-person visit. Telemedicine visits will be conducted using HIPAA compliant method approved by the Health System and within licensing restrictions.

- A: Nab-paclitaxel: Dose as assigned; administration schedule
- B: Gemcitabine: Dose as assigned; administration schedule
- C: Capecitabine: Dose as assigned; administration schedule
- D: Cisplatin: Dose as assigned; administration schedule
- E: Irinotecan: Dose as assigned; administration schedule
- 1: Longer delays to be approved by the Principal Investigator.
- 2: Specifically, Ashkenazi Jewish decent
- 3: Temperature, blood pressure, and heart rate.
- 4: Height collected prior to study entry may be used.
- 5: Repeat labs within 7 days to follow and document the resolution of a dose limiting toxicity (Section 4.3)
- 6: Albumin, alkaline phosphatase, total bilirubin, bicarbonate, BUN, calcium, chloride, creatinine, glucose, phosphorus, potassium, total protein, SGOT [AST], SGPT [ALT], sodium, magnesium.
- 7: Tumor markers may be discontinued by the PI, if they are consistently in the normal range starting with the baseline values.
- 8: CT scan (chest/abdomen/pelvis) or MRI (if patient has contrast allergy); to be assessed at baseline (baseline scan must be within 21 days of the first dose) and every two cycles. On study CT scans/MRIs may be done within 7 days prior to the scheduled visit. If a scan is performed early for clinical reasons, the investigator can re-start the 2 cycle count as to not overuse imaging.
- 9: Urine pregnancy test (women of childbearing potential).
- 10: Plasma collection (approximately 20 cc) will occur at baseline and with the second on study follow-up scan (about week 16). An optional off study plasma sample may be collected.
- 11: Whole blood collection (approximately 10 cc) will occur at baseline only.
- 12: Attempts to obtain archival tumor samples will be made for every patient until the sample is obtained or documentation that the sample cannot be obtained.
- 13: Research samples will be collected at the discretion of the PI based on availability of supplies and safety of patient and staff.

# 9.2 Cohort 2

|                                                    | Cycle (21 Days) |                             |             |       |             |           |           |            |               | 0.66         |
|----------------------------------------------------|-----------------|-----------------------------|-------------|-------|-------------|-----------|-----------|------------|---------------|--------------|
|                                                    | Consent         | Pre-<br>Study<br>(baseline) | Days<br>1-3 | Day 4 | Days<br>5-6 | Days 7-10 | Day<br>11 | Days 12-14 | Days<br>15-21 | Off<br>Study |
| Visit Windows (days) <sup>1</sup>                  |                 | -28 to 0                    | ± 4         | ± 4   |             |           | ± 4       |            |               | ± 28         |
| Nab-paclitaxel                                     |                 |                             |             | A     |             |           | A         |            |               |              |
| Gemcitabine                                        |                 |                             |             | В     |             |           | В         |            |               |              |
| Capecitabine                                       |                 |                             | С —         |       |             |           |           | <b>—</b>   |               |              |
| Cisplatin                                          |                 |                             |             | D     |             |           | D         |            |               |              |
| Irinotecan                                         |                 |                             |             | Е     |             |           | Е         |            |               |              |
| Informed consent                                   | X               |                             |             |       |             |           |           |            |               |              |
| Demographics (ethnicity and religion) <sup>2</sup> |                 | X                           |             |       |             |           |           |            |               |              |
| Medical history                                    |                 | X                           |             |       |             |           |           |            |               |              |
| Family history of cancer                           |                 | X                           |             |       |             |           |           |            |               |              |
| Concurrent meds                                    |                 | X                           |             | X     |             |           | X         |            |               | X            |
| Physical exam                                      |                 | X                           |             | X     |             |           | X         |            |               | X            |
| Vital signs <sup>3</sup>                           |                 | X                           |             | X     |             |           | X         |            |               | X            |
| Height <sup>4</sup>                                |                 | X                           |             |       |             |           |           |            |               |              |
| Weight                                             |                 | X                           |             | X     |             |           | X         |            |               | X            |
| Performance status                                 |                 | X                           |             | X     |             |           | X         |            |               | X            |
| CBC w/diff, plts <sup>5</sup>                      |                 | X                           |             | X     |             |           | X         |            |               | X            |
| Serum chemistry <sup>5,6</sup>                     |                 | X                           |             | X     |             |           | X         |            |               | X            |
| CA19-9/CEA <sup>7</sup>                            |                 | X                           |             | X     |             |           |           |            |               |              |
| C-reactive protein                                 |                 | X                           |             |       |             |           |           |            |               |              |
| AE evaluation                                      |                 |                             |             | X     |             |           | X         |            |               | X            |
| Radiologic evaluation/<br>RECIST <sup>8</sup>      |                 | X                           |             | X     |             |           |           |            |               |              |
| B-HCG <sup>9</sup>                                 |                 | X                           |             |       |             |           |           |            |               |              |
| Plasma Sample <sup>10, 13</sup>                    |                 | X                           |             | X     |             |           |           |            |               | X            |
| Whole Blood Sample <sup>11, 13</sup>               |                 | X                           |             |       |             |           |           |            |               |              |
| Archived Tumor Sample <sup>12,</sup>               |                 |                             |             | •     | •           | X         |           | •          | •             |              |

In order to minimize the need for research-only in-person visits, telemedicine visits may be substituted for in person clinical trial visits or portions of clinical trial visits where determined to be appropriate and where determined by the investigator not to increase the participants risks. Prior to initiating telemedicine for study visits the study team will explain to the participant, what a telemedicine visit entails and confirm that the study participant is in agreement and able to proceed with this method. Telemedicine acknowledgement will be obtained in accordance with the Guidance for Use of Telemedicine in Research. In the event telemedicine is not deemed feasible, the study visit will proceed as an in-person visit. Telemedicine visits will be conducted using HIPAA compliant method approved by the Health System and within licensing restrictions.

- A: Nab-paclitaxel: Dose as assigned; administration schedule
- B: Gemcitabine: Dose as assigned; administration schedule
- C: Capecitabine: Dose as assigned; administration schedule
- D: Cisplatin: Dose as assigned; administration schedule
- E: Irinotecan: Dose as assigned; administration schedule
- 1: Longer delays to be approved by the Principal Investigator.
- 2: Specifically, Ashkenazi Jewish decent
- 3: Temperature, blood pressure, and heart rate.
- 4: Height collected prior to study entry may be used.
- 5: Repeat labs within 7 days to follow and document the resolution of a dose limiting toxicity (Section 4.3)
- 6: Albumin, alkaline phosphatase, total bilirubin, bicarbonate, BUN, calcium, chloride, creatinine, glucose, phosphorus, potassium, total protein, SGOT [AST], SGPT [ALT], sodium, magnesium.
- 7: Tumor markers may be discontinued by the PI, if they are consistently in the normal range starting with the baseline values.
- 8: CT scan (chest/abdomen/pelvis) or MRI (if patient has contrast allergy); to be assessed at baseline (baseline scan must be within 21 days of the first dose) and every three cycles. On study CT scans/MRIs may be done within 7 days prior to the scheduled visit. If a scan is performed early for clinical reasons, the investigator can re-start the 3 cycle count as to not overuse imaging.
- 9: Urine pregnancy test (women of childbearing potential).
- 10: Plasma collection (approximately 20 cc) will occur at baseline and with the second on study follow-up scan (about week 18). An optional off study plasma sample may be collected.
- 11: Whole blood collection (approximately 10 cc) will occur at baseline only.
- 12: Attempts to obtain archival tumor samples will be made for every patient until the sample is obtained or documentation that the sample cannot be obtained.
- 13: Research samples will be collected at the discretion of the PI based on availability of supplies and safety of patient and staff.

#### 10. MEASUREMENT OF EFFECT

Although response is not the primary endpoint of this trial, patients with measurable disease will be assessed by standard criteria. For the purposes of this study, patients should be re-evaluated every 2-3 cycles.

#### **10.1** Antitumor Effect – Solid Tumors

For the purposes of this study, patients should be re-evaluated for response every 8 weeks. Response and progression will be evaluated in this study using the new international criteria proposed by the revised Response Evaluation Criteria in Solid Tumors (RECIST) guideline (version 1.1)<sup>11</sup>. Changes in the largest diameter (unidimensional measurement) of the tumor lesions and the shortest diameter in the case of malignant lymph nodes are used in the RECIST criteria.

#### 10.1.1 Definitions

<u>Evaluable for toxicity</u>. All patients will be evaluable for toxicity from the time of their first treatment with GAX-CI.

<u>Evaluable for objective response.</u> Only those patients who have measurable disease present at baseline, have received at least one cycle of therapy, and have had their disease reevaluated will be considered evaluable for response. These patients will have their response classified according to the definitions stated below. (Note: Patients who exhibit objective disease progression prior to the end of cycle 1 will also be considered evaluable.)

<u>Evaluable Non-Target Disease Response</u>. Patients who have lesions present at baseline that are evaluable but do not meet the definitions of measurable disease, have received at least one cycle of therapy, and have had their disease re-evaluated will be considered evaluable for non-target disease. The response assessment is based on the presence, absence, or unequivocal progression of the lesions.

#### **10.1.2 Disease Parameters**

<u>Measurable disease</u>. Measurable lesions are defined as those that can be accurately measured in at least one dimension (longest diameter to be recorded) as  $\geq 20$  mm by chest x-ray, as  $\geq 10$  mm with CT scan, or  $\geq 10$  mm with calipers by clinical exam. All tumor measurements must be recorded in <u>millimeters</u> (or decimal fractions of centimeters).

Note: Tumor lesions that are situated in a previously irradiated area might or might not be considered measurable. *If the investigator thinks it appropriate to include them, the conditions under which such lesions should be considered must be defined in the protocol.* 

Malignant lymph nodes. To be considered pathologically enlarged and measurable, a lymph node must be  $\ge 15$  mm in short axis when assessed by CT scan (CT scan slice thickness recommended to be no greater than 5 mm). At baseline and in follow-up, only

the short axis will be measured and followed.

Non-measurable disease. All other lesions (or sites of disease), including small lesions (longest diameter <10 mm or pathological lymph nodes with ≥10 to <15 mm short axis), are considered non-measurable disease. Bone lesions, leptomeningeal disease, ascites, pleural/pericardial effusions, lymphangitis cutis/pulmonitis, inflammatory breast disease, and abdominal masses (not followed by CT or MRI), are considered as non-measurable.

Note: Cystic lesions that meet the criteria for radiographically defined simple cysts should not be considered as malignant lesions (neither measurable nor non-measurable) since they are, by definition, simple cysts.

'Cystic lesions' thought to represent cystic metastases can be considered as measurable lesions, if they meet the definition of measurability described above. However, if non-cystic lesions are present in the same patient, these are preferred for selection as target lesions.

Target lesions. All measurable lesions up to a maximum of 2 lesions per organ and 5 lesions in total, representative of all involved organs, should be identified as **target lesions** and recorded and measured at baseline. Target lesions should be selected on the basis of their size (lesions with the longest diameter), be representative of all involved organs, but in addition should be those that lend themselves to reproducible repeated measurements. It may be the case that, on occasion, the largest lesion does not lend itself to reproducible measurement in which circumstance the next largest lesion which can be measured reproducibly should be selected. A sum of the diameters (longest for non-nodal lesions, short axis for nodal lesions) for all target lesions will be calculated and reported as the baseline sum diameters. If lymph nodes are to be included in the sum, then only the short axis is added into the sum. The baseline sum diameters will be used as reference to further characterize any objective tumor regression in the measurable dimension of the disease.

<u>Non-target lesions</u>. All other lesions (or sites of disease) including any measurable lesions over and above the 5 target lesions should be identified as **non-target lesions** and should also be recorded at baseline. Measurements of these lesions are not required, but the presence, absence, or in rare cases unequivocal progression of each should be noted throughout follow-up.

#### **10.1.3** Methods for Evaluation of Measurable Disease

All measurements should be taken and recorded in metric notation using a ruler or calipers. All baseline evaluations should be performed as closely as possible to the beginning of treatment and never more than 4 weeks before the beginning of the treatment.

The same method of assessment and the same technique should be used to characterize each identified and reported lesion at baseline and during follow-up. Imaging-based evaluation is preferred to evaluation by clinical examination unless the lesion(s) being followed cannot be imaged but are assessable by clinical exam.

<u>Clinical lesions</u> Clinical lesions will only be considered measurable when they are superficial (e.g., skin nodules and palpable lymph nodes) and ≥10 mm diameter as assessed using calipers (e.g., skin nodules). In the case of skin lesions, documentation by color photography, including a ruler to estimate the size of the lesion, is recommended.

<u>Conventional CT and MRI</u> This guideline has defined measurability of lesions on CT scan based on the assumption that CT slice thickness is 5 mm or less. If CT scans have slice thickness greater than 5 mm, the minimum size for a measurable lesion should be twice the slice thickness. MRI is also acceptable in certain situations (e.g. for body scans).

Use of MRI remains a complex issue. MRI has excellent contrast, spatial, and temporal resolution; however, there are many image acquisition variables involved in MRI, which greatly impact image quality, lesion conspicuity, and measurement. Furthermore, the availability of MRI is variable globally. As with CT, if an MRI is performed, the technical specifications of the scanning sequences used should be optimized for the evaluation of the type and site of disease. Furthermore, as with CT, the modality used at follow-up should be the same as was used at baseline and the lesions should be measured/assessed on the same pulse sequence. It is beyond the scope of the RECIST guidelines to prescribe specific MRI pulse sequence parameters for all scanners, body parts, and diseases. Ideally, the same type of scanner should be used and the image acquisition protocol should be followed as closely as possible to prior scans. Body scans should be performed with breath-hold scanning techniques, if possible.

<u>Tumor markers</u> Tumor markers alone cannot be used to assess response. If markers are initially above the upper normal limit, they must normalize for a patient to be considered in complete clinical response. Specific guidelines for both CA-125 response (in recurrent ovarian cancer) and PSA response (in recurrent prostate cancer) have been published [*JNCI* 96:487-488, 2004; *J Clin Oncol* 17, 3461-3467, 1999; *J Clin Oncol* 26:1148-1159, 2008]. In addition, the Gynecologic Cancer Intergroup has developed CA-125 progression criteria which are to be integrated with objective tumor assessment for use in first-line trials in ovarian cancer [*JNCI* 92:1534-1535, 2000].

#### 10.1.4 Response Criteria

#### **10.1.4.1** Evaluation of Target Lesions

Complete Response (CR): Disappearance of all target lesions. Any pathological

lymph nodes (whether target or non-target) must have

reduction in short axis to <10 mm.

Partial Response (PR): At least a 30% decrease in the sum of the diameters of

target lesions, taking as reference the baseline sum

diameters.

Progressive Disease (PD): At least a 20% increase in the sum of the diameters of

target lesions, taking as reference the smallest sum on study (this includes the baseline sum if that is the smallest on study). In addition to the relative increase of 20%, the sum must also demonstrate an absolute increase of at least 5 mm. (Note: the appearance of one or more new lesions is also considered progressions).

Stable Disease (SD):

Neither sufficient shrinkage to qualify for PR nor sufficient increase to qualify for PD, taking as reference the smallest sum diameters while on study.

#### **10.1.4.2** Evaluation of Non-Target Lesions

Complete Response (CR): Disappearance of all non-target lesions and

normalization of tumor marker level. All lymph nodes must be non-pathological in size (<10 mm short axis).

Note: If tumor markers are initially above the upper normal limit, they must normalize for a patient to be

considered in complete clinical response.

Non-CR/Non-PD: Persistence of one or more non-target lesion(s) and/or

maintenance of tumor marker level above the normal

limits.

Progressive Disease (PD): Appearance of one or more new lesions and/or

unequivocal progression of existing non-target lesions. Unequivocal progression should not normally trump target lesion status. It must be representative of overall

disease status change, not a single lesion increase.

Although a clear progression of "non-target" lesions only is exceptional, the opinion of the treating physician should prevail in such circumstances, and the progression status should be confirmed at a later time by the review panel (or Principal Investigator).

## **10.1.4.3** Evaluation of Best Overall Response

The best overall response is the best response recorded from the start of the treatment until disease progression/recurrence (taking as reference for progressive disease the smallest measurements recorded since the treatment started). The patient's best response assignment will depend on the achievement of both measurement and confirmation criteria.

For Patients with Measurable Disease (i.e., Target Disease)

| Target<br>Lesions | Non-Target<br>Lesions | New<br>Lesions | Overall<br>Response | Best Overall Response<br>when Confirmation is<br>Required* |
|-------------------|-----------------------|----------------|---------------------|------------------------------------------------------------|
| CR                | CR                    | No             | CR                  | ≥4 wks. Confirmation**                                     |
| CR                | Non-CR/Non-PD         | No             | PR                  |                                                            |
| CR                | Not evaluated         | No             | PR                  | >4 wks. Confirmation**                                     |
| PR                | Non-CR/Non-           | No             | PR                  | 24 wks. Commination                                        |
|                   | PD/not evaluated      |                |                     |                                                            |
| SD                | Non-CR/Non-           | No             | SD                  | Documented at least once $\geq$ 4                          |
|                   | PD/not evaluated      |                |                     | wks. from baseline**                                       |
| PD                | Any                   | Yes or         | PD                  |                                                            |
|                   |                       | No             |                     |                                                            |
| Any               | PD***                 | Yes or         | PD                  | no prior SD, PR or CR                                      |
|                   |                       | No             |                     |                                                            |
| Any               | Any                   | Yes            | PD                  |                                                            |

<sup>\*</sup> See RECIST 1.1 manuscript for further details on what is evidence of a new lesion.

Note: Patients with a global deterioration of health status requiring discontinuation of treatment without objective evidence of disease progression at that time should be reported as "symptomatic deterioration." Every effort should be made to document the objective progression even after discontinuation of treatment.

#### For Patients with Non-Measurable Disease (i.e., Non-Target Disease)

| Non-Target Lesions | New Lesions | <b>Overall Response</b> |
|--------------------|-------------|-------------------------|
| CR                 | No          | CR                      |
| Non-CR/non-PD      | No          | Non-CR/non-PD*          |
| Not all evaluated  | No          | not evaluated           |
| Unequivocal PD     | Yes or No   | PD                      |
| Any                | Yes         | PD                      |

<sup>\* &#</sup>x27;Non-CR/non-PD' is preferred over 'stable disease' for non-target disease since SD is increasingly used as an endpoint for assessment of efficacy in some trials so to assign this category when no lesions can be measured is not advised

#### 10.1.5 Duration of Response

<u>Duration of overall response</u>: The duration of overall response is measured from the time measurement criteria are met for CR or PR (whichever is first recorded) until the first date that recurrent or progressive disease is objectively documented (taking as reference for progressive disease the smallest measurements recorded since the treatment started).

<sup>\*\*</sup> Only for non-randomized trials with response as primary endpoint.

<sup>\*\*\*</sup> In exceptional circumstances, unequivocal progression in non-target lesions may be accepted as disease progression.

The duration of overall CR is measured from the time measurement criteria are first met for CR until the first date that progressive disease is objectively documented.

<u>Duration of stable disease</u>: Stable disease is measured from the start of the treatment until the criteria for progression are met, taking as reference the smallest measurements recorded since the treatment started, including the baseline measurements.

### 10.1.6 Progression-Free Survival (PFS)

PFS is defined as the duration of time from start of treatment to time of first documented progression or death, whichever occurs first.

#### 10.1.7 Overall Survival (OS)

OS is defined as the duration of time from start of treatment to time of death.

#### 11. DATA REPORTING / REGULATORY REQUIREMENTS

## 11.1 Data Management

All information will be collected on study-specific case report forms (CRFs) by study staff. These data will be reviewed for completeness and accuracy by the Principal Investigator.

#### 11.2 Safety Meetings

Scheduled meetings will take place weekly and will include the protocol principal investigator, study coordinator(s), data manager(s), sub-investigators (as appropriate), collaborators (as appropriate), and biostatisticians (as appropriate) involved with the conduct of the protocol. During these meetings matters related to the following will be discussed: safety of protocol participants, validity and integrity of the data, enrollment rate relative to expectation, characteristics of participants, retention of participants, adherence to protocol (potential or real protocol violations), data completeness, and progress of data for objectives.

#### 11.3 Monitoring

Adverse event lists, guidelines, and instructions for AE reporting can be found in **Section 7.0** (Adverse Events: List and Reporting Requirements).

The SKCCC Compliance Monitoring Program will provide external monitoring for JHU-affiliated sites in accordance with SKCCC DSMP (Version 6.0, 02/21/2019). The SMC Subcommittee will determine the level of patient safety risk and level/frequency of monitoring.

The PI is responsible for monitoring the study. Data must be reviewed to assure the validity of data, as well as, the safety of the subjects. The PI will also monitor the progress of the trial, review safety reports, and clinical trial efficacy endpoints, and confirm that the safety outcomes favor continuation of the study.

#### 12. STATISTICAL CONSIDERATIONS

#### 12.1 Study Design/Endpoints

The phase I portion will evaluate up to 4 dose levels and 2 dosing schedules of the regimen to determine the MTD or recommended dose for Phase 2. The dose escalation will commence using a 3+3 design within each dosing schedule. The MTD will be defined as the dose level in which 0 or 1 of 6 patients experiences a dose limiting toxicity (DLT) with the next higher dose having at least 2 of 3 or 2 of up to 6 patients experiencing a DLT. The recommended dose for the Phase 2 portion of the trial will be determined according to toxicity and efficacy based on objective response. If, however, the MTD is not chosen for expansion, then the PI will formally review the toxicity data with the other treating physicians before moving forward. A total of 6-77 patients will be enrolled, and the actual number will vary depending on the number of DLTs.

The phase II portion will evaluate the efficacy of the regimen. The PI has discretion on selection of the dose level for expansion based on considerations of general tolerability and efficacy if the dose level is deemed safe. A dose level from cohort 1 and/or cohort 2 may be chosen for expansion. If both cohorts move to expansion, patients will be accrued into expansion cohort 2 and expansion Cohort 1 alternately. A block of 4 patients will be enrolled in one cohort and the next 4 patients into another cohort. The primary endpoint of the expansion cohorts will be the PFS. The treatment regimen would be considered of insufficient activity for further study in these population if the PFS at 6 months is 44% or less (corresponding to median PFS 5.1 months under the assumption of exponential distribution), and the minimum required level of efficacy that would warrant further study with the proposed regimen is a 65% PFS at 6 months (corresponding to median PFS 9.7 months).

A total of 22 patients are needed for each expansion cohort selected in the phase II portion, including the 6 patients who are treated at the same dose level as phase II dose in phase I portion. We expect that 22 subjects are accrued in 24 months and will be followed for additional 12 months after the last patient is enrolled. A sample size 22 provides 90% power to detect a 6-month PFS of 65% compared to the historical rate of 44%, based on a one-sided log-rank test at a 0.1 significance level. The calculation assumes an exponential distribution of the PFS time. To account for 10% loss of follow-up, we may enroll up to a total of 25 patients (including the 6 patients from phase 1 portion) per expansion cohort in phase II portion.

Genomic sequencing library construction, whole genome/exome sequencing, whole transcriptome sequencing, microbial sequencing, neoepitope prediction, mutation burden, and bioinformatic analysis will be performed either at an on-campus laboratory or at an off-campus sequencing service. All the samples will be de-identified before sending to any laboratory for sequencing. The FASTQ files, BAM files and VCF files will be generated and analyzed.

Genomic sequencing data will be stored and computations conducted using a JH IT managed subscription of Azure.

#### Safety monitoring

The study will be continuously monitored for adverse events after the dose escalation phase. If the limiting toxicity events appear to be higher than 33%, we will temporarily halt the study pending dose modification. Specifically, we will apply a Bayesian toxicity monitoring rule that suspends the enrollment if the posterior probability of risk being larger than 0.33 is 70% or higher. The monitoring rule uses beta (1.5, 5.5) as prior distribution. This means that our prior guess at the proportion of toxicity is 21%, and there is 90% probability that this proportion is between 3% and 49%. Starting from the 1<sup>st</sup> patient enrolled in the phase II portion (after the 6 patients treated at phase II dose in phase I portion), the decision rule for safety stopping is as follows:

| Stop if:              |   |   |   |    |    |    |    |  |
|-----------------------|---|---|---|----|----|----|----|--|
| # of patients with AE | 3 | 4 | 5 | 6  | 7  | 8  | 9  |  |
| Out of                | 3 | 4 | 7 | 10 | 13 | 15 | 18 |  |
|                       |   | 5 | 8 | 11 | 14 | 16 | 19 |  |
|                       |   | 6 | 9 | 12 |    | 17 |    |  |

For example, starting with the 1<sup>st</sup> patients, if three out of the next 3 patients have limiting toxicity events, we will stop the accrual. If four or more out of the first 4-6 patients have limiting toxicity events, we will stop.

The operating characteristics of the stopping rule are shown below and are based on 5000 simulations:

| True AE rate | % simulated trials declaring unsafe | Average sample size (out of 19) |
|--------------|-------------------------------------|---------------------------------|
| 0.10         | 0.3                                 | 19                              |
| 0.25         | 10.0                                | 17.9                            |
| 0.3          | 20.6                                | 17                              |
| 0.33         | 27.9                                | 16.2                            |
| 0.40         | 49.7                                | 14.1                            |
| 0.45         | 66.3                                | 12.4                            |
| 0.50         | 78.8                                | 10.8                            |

#### **Data analysis**

The primary objective of Part 2 (expansion) of the study is to evaluate the efficacy of GAX-CI in metastatic pancreatic cancer patients. PFS is used as a primary outcome of efficacy. PFS is defined as the time from the date of initial dose to the date of disease progression or to death due to any cause, whichever occurs first. PFS will be censored on the date of the last evaluable tumor assessment documenting absence of progressive disease for patients who are alive and progression free. PFS will be summarized by the Kaplan-Meier method. Median PFS and 6-month PFS will be estimated from the Kaplan-Meier curve with corresponding 95% confidence interval (CI). PFS will be compared with the historical data of 44% 6-month PFS using one-sample log-rank test.

The secondary outcomes include toxicity, OR, DCR, and OS. We will characterize toxicity as

percentage by grade. DCR is defined as percentage of patients who achieved complete response (CR), partial response (PR), or stable disease (SD) among all evaluable patients. 95% CIs will be computed. OS is defined as the time from the date of initial dose to death due to any cause. For patients who still alive at the time of analysis, the OS time will be censored on the last date the patients are known to be alive. OS will be summarized by the Kaplan-Meier method.

As exploratory analysis, the correlations between baseline characteristics of subjects and treatment response and toxicity will be examined using two-sample t-tests or fisher exact test depending on the variable type. To evaluate the correlations between tumor tissue specific somatic mutations and treatment response and toxicity, fisher exact test will be performed. In addition, regression analysis will be used to include other covariates. P-value less than 0.05 will be considered as statistically significant. We will not adjust for multiplicity in the hypothesis testing for these exploratory analyses.

#### 12.2 Reporting and Exclusions

- 12.2.1 <u>Evaluation of toxicity</u> All patients will be evaluable for toxicity from the time of their first treatment with GAX-CI.
- 12.2.2 Evaluation of response All patients who start treatment must be assessed for response to treatment, even if there are major protocol treatment deviations or if they are ineligible. Each patient will be assigned one of the following categories:
  1) complete response, 2) partial response, 3) stable disease, 4) progressive disease, 5) early death from malignant disease, 6) early death from toxicity, 7) early death because of other cause unless accidental, or 8) unknown (not assessable, insufficient data).

All of the patients who met the eligibility criteria (with the possible exception of those who received no study medication) should be included in the main analysis of the response rate. Patients in response categories 4-8 should be considered to have a treatment failure (disease progression). Thus, an incorrect treatment schedule or drug administration does not result in exclusion from the analysis of the response rate.

All conclusions should be based on all eligible and treated patients. Subanalyses may then be performed on the basis of a subset of patients, excluding those for whom major protocol deviations have been identified (e.g., early death due to other reasons, early discontinuation of treatment, major protocol violations, etc.). However, these subanalyses may not serve as the basis for drawing conclusions concerning treatment efficacy, and the reasons for excluding patients from the analysis should be clearly reported. The 95% confidence intervals should also be provided.

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**APPENDIX A: Performance Status Criteria** 

| ECOG P                                                                              | erformance Status Scale                                                                           | Karnofsky Performance Scale |                                                                                |  |  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------|--|--|
| Grade                                                                               | Descriptions                                                                                      | Percent                     | Description                                                                    |  |  |
| 0                                                                                   | Normal activity. Fully active, able to carry on all pre-disease                                   | 100                         | Normal, no complaints, no evidence of disease.                                 |  |  |
| U                                                                                   | to carry on all pre-disease performance without restriction.                                      | 90                          | Able to carry on normal activity; minor signs or symptoms of disease.          |  |  |
| 1                                                                                   | Symptoms, but ambulatory. Restricted in physically strenuous activity, but ambulatory and able to | 80                          | Normal activity with effort; some signs or symptoms of disease.                |  |  |
| carry out work of a light or sedentary nature (e.g., light housework, office work). |                                                                                                   | 70                          | Cares for self, unable to carry on normal activity or to do active work.       |  |  |
|                                                                                     | In bed <50% of the time. Ambulatory and capable of all self-                                      | 60                          | Requires occasional assistance, but is able to care for most of his/her needs. |  |  |
| 2                                                                                   | care, but unable to carry out any work activities. Up and about more than 50% of waking hours.    | 50                          | Requires considerable assistance and frequent medical care.                    |  |  |
| 2                                                                                   | In bed >50% of the time. Capable of only limited self-care, confined                              | 40                          | Disabled, requires special care and assistance.                                |  |  |
| to bed or chair more than 50% of waking hours.                                      |                                                                                                   | 30                          | Severely disabled, hospitalization indicated. Death not imminent.              |  |  |
| 4                                                                                   | 100% bedridden. Completely disabled. Cannot carry on any self-                                    | 20                          | Very sick, hospitalization indicated. Death not imminent.                      |  |  |
| care Totally confined to hed or                                                     |                                                                                                   | 10                          | Moribund, fatal processes progressing rapidly.                                 |  |  |
| 5                                                                                   | Dead.                                                                                             | 0                           | Dead.                                                                          |  |  |

# **APPENDIX B: Cohort 1 Capecitabine Patient Pill Diary**

#### COHORT 1 PATIENT DIARY FOR J1847

| Name: | History #_ | <br>Cycle #: |
|-------|------------|--------------|
|       |            |              |
|       |            |              |

- Take capecitabine tablet twice each day within 30 minutes after the end of a meal and swallowed with water.
- Capecitabine should be taken each morning and night at the same time on designated days. If you forget a dose, take it as soon as you remember and then resume the next dose at the scheduled time. If it is within 2 hours of your next dose, omit the missed dose. If you vomit within 30 minutes of taking your daily dose and you can see the pill, you may repeat the dose.
- The use of any natural/herbal products or other "folk remedies" is discouraged
- Bring your diary and pill supply with you to each clinic visit.

| Day | Date | Time Taken     | # of<br>Pills | Time Taken        | # of<br>Pills | Comments |
|-----|------|----------------|---------------|-------------------|---------------|----------|
| 1   |      | AM             |               | PM                |               |          |
| 2   |      | AM             |               | PM                |               |          |
| 3   |      | AM             |               | PM                |               |          |
| 4   |      | AM             |               | PM                |               |          |
| 5   |      | AM             |               | PM                |               |          |
| 6   |      | AM             |               | PM                |               |          |
| 7   |      | AM             |               | PM                |               |          |
|     |      | capecitabine s | should no     | t be taken on day | s 8-14        |          |
| 15  |      | AM             |               | PM                |               |          |
| 16  |      | AM             |               | PM                |               |          |
| 17  |      | AM             |               | PM                |               |          |
| 18  |      | AM             |               | PM                |               |          |
| 19  |      | AM             |               | PM                |               |          |
| 20  |      | AM             |               | PM                |               |          |
| 21  |      | AM             |               | PM                |               |          |

| e: |
|----|
|    |

# **APPENDIX C: Cohort 2 Capecitabine Patient Pill Diary**

#### **COHORT 2 PATIENT DIARY FOR J1847**

| Name: History # Cycle #: | Name: | History # | Cycle #: |
|--------------------------|-------|-----------|----------|
|--------------------------|-------|-----------|----------|

- Take capecitabine tablet twice each day within 30 minutes after the end of a meal and swallowed with water.
- Capecitabine should be taken each morning and night at the same time on designated days. If you forget a dose, take it as soon as you remember and then resume the next dose at the scheduled time. If it is within 2 hours of your next dose, omit the missed dose. If you vomit within 30 minutes of taking your daily dose and you can see the pill, you may repeat the dose.
- The use of any natural/herbal products or other "folk remedies" is discouraged
- Bring your diary and pill supply with you to each clinic visit.

| Day | Date | Time Taken | # of  | Time Taken | # of  | Comments |
|-----|------|------------|-------|------------|-------|----------|
|     |      |            | Pills |            | Pills |          |
| 1   |      | AM         |       | PM         |       |          |
| 2   |      | AM         |       | PM         |       |          |
| 3   |      | AM         |       | PM         |       |          |
| 4   |      | AM         |       | PM         |       |          |
| 5   |      | AM         |       | PM         |       |          |
| 6   |      | AM         |       | PM         |       |          |
| 7   |      | AM         |       | PM         |       |          |
| 8   |      | AM         |       | PM         |       |          |
| 9   |      | AM         |       | PM         |       |          |
| 10  |      | AM         |       | PM         |       |          |
| 11  |      | AM         |       | PM         |       |          |
| 12  |      | AM         |       | PM         |       |          |
| 13  |      | AM         |       | PM         |       |          |
| 14  |      | AM         |       | PM         |       |          |

| Completed By       | Date: |  |
|--------------------|-------|--|
|                    |       |  |
| Study Staff Review | Date: |  |

# **APPENDIX D: SAE Reporting Form**

# **Serious Adverse Event Reporting Form**

| Protocol Title:          |            | A phase I/II study of gemcitabine, nab-paclitaxel, capecitabine, cisplatin, and irinotecan (GAX-CI) in combination in metastatic pancreatic cancer |                    |                                   |                   |  |
|--------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|-------------------|--|
| Protocol                 | Signatui   | e of PI:                                                                                                                                           | Principa           | al Investigator:                  | Date:             |  |
| Number:                  |            |                                                                                                                                                    | _                  |                                   |                   |  |
| J1847                    |            |                                                                                                                                                    | Dr. Dung           | g Le                              |                   |  |
| Report Type:             | Serious    | Criteria (check all                                                                                                                                | Hospita            | l Admission                       | <b>Date Event</b> |  |
| ☐ Initial                | that app   | ly):                                                                                                                                               | Date:              |                                   | Discovered:       |  |
| Follow-up                | Death      |                                                                                                                                                    |                    |                                   |                   |  |
| ☐Final Follow-up         |            | eatening                                                                                                                                           |                    |                                   |                   |  |
| ☐Death<br>☐Addendum to:  |            | alization or Elongation of                                                                                                                         | Hospital Discharge |                                   |                   |  |
| Audendum to.             |            | ospitalization<br>mportant Medical Event                                                                                                           | Date:              | 8                                 |                   |  |
|                          | Cancer     |                                                                                                                                                    |                    |                                   |                   |  |
|                          | Overdo     |                                                                                                                                                    |                    |                                   |                   |  |
|                          | Other:     |                                                                                                                                                    |                    |                                   |                   |  |
| Section A: Subject       | et Informa | ition                                                                                                                                              |                    |                                   |                   |  |
| Subject ID:              |            | Subject Gender:  Male Female                                                                                                                       |                    |                                   |                   |  |
| <b>Section B: Event</b>  | Informati  | on                                                                                                                                                 |                    |                                   |                   |  |
| <b>Event diagnosis o</b> | r          | Date of First Dose:                                                                                                                                |                    | Action taken with the study drug: |                   |  |
| symptoms:                |            |                                                                                                                                                    |                    |                                   | •                 |  |
| <i>y</i> <b>P</b> ***    |            |                                                                                                                                                    |                    | None                              |                   |  |
|                          |            |                                                                                                                                                    |                    | Interrupted                       |                   |  |
|                          |            | Date of Last Dose prior to                                                                                                                         |                    | ☐ Discontinued                    |                   |  |
|                          |            |                                                                                                                                                    |                    |                                   |                   |  |
|                          |            | Event:                                                                                                                                             |                    | ☐ Delayed                         |                   |  |
|                          |            | Event:                                                                                                                                             |                    |                                   |                   |  |
|                          |            | Event:                                                                                                                                             |                    |                                   |                   |  |
|                          |            | Event:  Number of Total Cycles                                                                                                                     |                    |                                   |                   |  |
|                          |            |                                                                                                                                                    |                    |                                   |                   |  |
|                          |            |                                                                                                                                                    |                    |                                   |                   |  |
|                          |            |                                                                                                                                                    | :                  | Delayed                           |                   |  |
| <b>Event Onset Date</b>  | :          |                                                                                                                                                    | :                  |                                   |                   |  |
| <b>Event Onset Date</b>  | ·:         |                                                                                                                                                    | :                  | Delayed                           |                   |  |
| <b>Event Onset Date</b>  | ::         |                                                                                                                                                    | :                  | Delayed                           |                   |  |
| <b>Event Onset Date</b>  | ::         |                                                                                                                                                    | :                  | Delayed                           |                   |  |
| Event Onset Date         | ·:         |                                                                                                                                                    | :                  | Delayed                           |                   |  |
| <b>Event Onset Date</b>  | :          |                                                                                                                                                    | :                  | Delayed                           |                   |  |
| Event Onset Date         | •          |                                                                                                                                                    | :                  | Delayed                           |                   |  |

| Relationship to:                                 | Gemcitabine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Nab-<br>paclitaxel | Capecitabine | Cisplatin | Irinotecan | Underlying<br>Disease |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------|-----------|------------|-----------------------|
| Unrelated                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              |           |            |                       |
| Related                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              |           |            |                       |
| Section C: Brief Description of the Event:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              |           |            |                       |
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| Section D: Relevant Medical History              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              |           |            |                       |
| Section D: Releva                                | nt Medical Hist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ory                |              |           |            |                       |
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| Section E: Concomitant Drug (Not related to SAE) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              |           |            |                       |
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| Name of the Drug                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              | Route     | Dose       | Frequency             |
| Name of the Drug                                 | , in the second |                    |              | Route     | Dose       | Frequency             |
| Name of the Drug                                 | , , , , , , , , , , , , , , , , , , ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |              | Route     | Dose       | Frequency             |
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| Name of the Drug  Section F: Comm                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |              | Route     | Dose       | Frequency             |
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