PREGNANCY OUTCOME AND SAFETY OF INTERRUPTING THERAPY FOR WOMEN WITH ENDOCRINE RESPONSIVE BC

> IBCSG 48-14 / BIG 8-13 A221405

POSITIVE TRIAL

OVERVIEW

ANN H. PARTRIDGE NORTH AMERICAN PI 5/12/16







BACKGROUND



- About 15% of patients with BC are diagnosed **during** their **reproductive years.**
- In the last decades **women tend to delay childbearing** for different reasons (i.e. cultural, educational, professional)
- In an increasing number of patients **BC occurs before the completion of their reproductive plans**.
- 5-10 years of ET may substantially reduce the chance of a successful conception.
- A shorter duration of ET in this population has not been studied in a prospective manner.



BACKGROUND



- Pregnancy after BC does not seem to increase the risk of relapse.
- In a multicenter, retrospective cohort study, no difference in DFS was observed between pregnant and non-pregnant patients in the ER+ population.
- In the same analysis, no difference in DFS was observed between patients who became pregnant <2 years following BC diagnosis and those who became pregnant afterwards.
- **Birth outcome** after BC is apparently **not different** from the general population.
- The **limited evidence available on breastfeeding reports successful lactation from the treated breast in ~ 30%** of women without detrimental effect on survival.



Rationale for the Positive Trial







POSITIVE TRIAL

DATA CAPTURE AND MANAGEMENT





POSITIVE STUDY CONTACTS

IBCSG Data Management Center (DMC) Amherst, NY,

Trial Coordinators:

Data Managers:

• Holly Shaw (Lead TC) • Jocelyn Swick-Jemison

o Poonam Jani Dawn Weinbaum

ibcsg48_POSITIVE@fstrf.org





TRAINING AND ACTIVATION

- Prior to activation, each staff member involved with POSITIVE, including the PI must be trained
- Site staff will receive a detailed trial overview and iDataFax demonstration
- Training is essential to ensure the quality of data and the efficacy of the trial





DATA COLLECTION

- Data will be entered remotely via eCRFs in iDataFax
 - Centers will be granted access to the iDataFax System and will receive training on how to submit data, resolve queries, etc.
 - CRFs are available in iDataFax 24 hours after the patient is enrolled

 Data will be managed at the IBCSG Data Management Center in Amherst, NY, USA





MONTH 6	Center Code ADC123
Was setum progesterone sample collected?	
O No day month	- Kant
Yes Date obliected 20/01/2016	
Was a ctDNA plasma sample collected?	
O No say month	S. Near
Yes Date collected 20/01/2016	
Was a transvaginar ultrasound performed?	
C No day month	Wat -
Yes Date: 20/01/2016	Result 🏶 Normai
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Was an annal fullicular count performed? (or	otional) O: Other specify
Din.	
O Yes day month year	
Date / /	Total count for both overalls
And a state of the state	onal)
ADDRESS OF THE DRESS OF THE	onal)
Was an endometrial biopsy performed? (ops	onal)



FORMS NOT SUBMITTED BY IDF

- The exceptions for data to be submitted via DFsend or fax:
 - Patient completed POCS Questionnaires
 - These forms can be printed from the IBCSG website or directly in iDataFax
 - The Confirmation of Enrollment and Assessment Checklist should be completed by the Center via iDataFax

Pathology Reports

- Every page of the Pathology Report must have the Patient ID and Center Code
- Pathology Report Labels are available on the IBCSG website
- Medical Review Queries





DFSEND- EASY AND QUICK !!





DATA COLLECTION



- The Data Quality Control Office in Amherst, NY, USA will oversee overall data submission and query resolution metrics
- The IBCSG Coordinating Center in Bern, Switzerland will provide medical review and summary of SAEs
- The Statistical Center in Boston, MA, USA will perform the data analysis



DATA SUBMISSION TIMELINES

- A Form and Baseline POCS Forms: due with 24 hours of patient enrollment
- H Form and Pathology Reports/HRR: due within 1 week of enrollment
- 3 Month visit and future visits are based on when the patient stopped Endocrine Therapy at or before enrollment



PATIENT MENSTRUAL DIARY

- The Patient Diary will collect information on timing of menstrual recovery and on the pattern of menses
- It serves as a reminder for the patients to schedule the blood draws for translational research parameters in the designated menstrual cycles





LEARNING CHECKS AND TIPS

Blood Draw ID

Please check the **Blood Logistics Manual** for coding the Blood Draw ID

Just two letters NO numbers!





Patient ID 480013	Conter Code Test2
MONTH 3 ASSESSMENT FORM (Forn Instructions: This form is to be completed	e 48-M3A) for all patients upon completion of the 3 month wash-out.
1. Was serum sample for central evaluation No Yes day month Date collected 01/03/2016	vear Blood Draw ID B-S
 Was serum PRL done? (if high, repeat a O No Yes Normal High 	t month 12.)
 Was serum TSH done? (If abriormal (Im No Yos Normat Low Holi 	whigh), repeat at month 12.)

RESOURCES

IBCSG Website (<u>www.ibcsg.org</u>)

- Protocols and Appendices
- Frequently Asked Questions (FAQs)
- Data Manager Manuals
- Blood Sample Logistics
- Reports (Safety, DSMC, Biostatistician)
- Newsletters
- DataFax Resource Support Website
 - https://www.ibcsgdmc.org/ibcsg/df/







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Frequently Asked Questions FAQ

The Property Name Of Street, or other



Please check the FAQs every few weeks for any new questions or important information

IBCSG

TRANSLATIONAL RESEARCH CENTRAL LABS \rightarrow BRUSSELS, BELGIUM

Central Lab for Ovarian Function Analysis: Free University of Brussels Isabelle Demeestere Research Laboratory on Human Reproduction

Central Lab for Circulating Tumor DNA Analysis: Institut Jules Bordet Michail Ignatiadis Breast Cancer Translational Research Laboratory













NORTH AMERICAN SITES → MAYO CLINIC, ROCHESTER, MN

Central Lab in North America → Mayo Clinic, Rochester, MN

- 1. To distribute kits to N.A. sites
- 2. Collect blood and FFPE samples from N. A. sites
- 3. Batch material to transfer: Fluids to Brussels, Belgium, and FFPE to Milan, Italy



BLOOD COLLECTION KITS



BLOOD DRAWS TIMELINES: CENTRAL EVALUATION

	Ovarian Function Serum Sample (AMH, FSH, E2)	Serum Progesterone	CIRCULATING TUMOR DNA (CTDNA) (PLASMA)
ENROLLMENT			10 ML IN EDTA TUBE
MONTH 3, DAY 2-5 OF THE MENSTRUAL CYCLE OR ANYTIME IF AMENORRHEA	10 ML IN SERUM COLLECTION TUBES		
Month 6, BETWEEN DAY 21 – DAY 25 (IF PATIENT IS NOT PREGNANT AT THIS TIME POINT)		(ONLY FOR PATIENTS WITH ACTIVE MENSTRUATION) 5 ML IN SERUM COLLECTION TUBES	10 ML IN EDTA TUBE
MONTH 12, DAY 2-5 OF THE MENSTRUAL CYCLE OR ANYTIME IF AMENORRHEA (IF PATIENT IS NOT PREGNANT AT THIS TIME POINT)	10 ML IN SERUM COLLECTION TUBES		
3-6 MONTHS AFTER RESUMPTION OF ET			10 ML IN EDTA TUBE
SECOND TRIMESTER OF PREGNANCY			10 ML IN EDTA SUBE
AT BREAST CANCER RECURRENCE EVENT *Only for patients who become pregna	nt		10 ML IN EDTA TUBE

BLOOD DRAWS TIMELINES: LOCAL EVALUATION

TIME POINT	SERUM PRL	SERUM TSH	
3 MONTHS	Analysis of PRL and TSH <u>will be done</u> <u>LOCALLY in real time</u>		
12 MONTHS (ONLY IF THEY WERE ABNORMAL AT 3 MONTHS AND NO PREGNANCY OCCURRED)	RESULTS TO BE REPORT	FED ON THE PATIENT	







FFPE Primary Tumor Month 3 Serum

FFPE PATHOLOGY SUBMISSION

FFPE tumor block for central pathology review and banking (at least 5mm invasive tumor and a minor component of normal breast tissue).

Please notify the pathologist of this requirement in advance.

Slides are NOT an alternative \rightarrow loose antigenicity



CENTRAL PATHOLOGY REVIEW BANKING FOR TRANSLATIONAL RESEARCH

Central Pathology Review – evaluation by a boardcertified pathologist, quality control of at least 10% of the cases by a second board-certified pathologist.

ER, PgR by IHC Ki-67 labeling index by IHC HER2 by IHC; confirmed by FISH

IBCSG Central Pathology Office European Institute of Oncology Milan, Italy



FFPE BLOCK OF PRIMARY TUMOR (FROM SURGERY)

Aim: Elucidate the biology of BC in young women and also the factors associated with sensitivity/resistance to ET.

IHC, in situ hybridization, expression profiling and sequencing. Extraction of nucleic acids (DNA and RNA) may be required to perform these analyses

- Central Pathology assessment on the primary tumor is mandatory, but patients will be evaluated for eligibility according to tumor characteristics as determined by the local pathologist.
- The work of the pathologist is basic to the success of all studies. Each Participating Center should identify a pathologist responsible for study patients.



FFPE BLOCK PAYMENT / SHIPMENT

100 Euro/USD is provided by IBCSG for the work associated to submit the FFPE tumor block.

Transferred upon:

- receipt of the block at the IBCSG CPO.

An IBCSG DHL/FedEx account may be used to transfer the FFPE blocks.



Questions:

IBCSG Translational Research Coordinator Rosita.Kammler@ibcsg.org





POSITIVE TRIAL

QUALITY ASSURANCE VS QUALITY CONTROL





QUALITY ASSURANCE AND QUALITY CONTROL WHAT'S THE DIFFERENCE

QUALITY CONTROL

Periodic operational checks within each functional department to verify that clinical data are generated, collected, handled, analyzed, and reported according to protocol, SOPs, and GCPs

MONITOR / DATA MANAGER TEAM

QUALITY ASSURANCE

The systematic and independent examination of all trial-related activities and documents. These audits determine whether the evaluated activities were appropriately conducted and that the data were generated, recorded, analyzed, and accurately reported according to protocol, standard operating procedures (SOPs), and good clinical practices (GCPs).







IBCSG 48-14 POSITIVE QC/QA TIMELINES





- ➤ Keeping Source Documents as updated as possible
- ➤ Keeping Idatafax as updated as possible
 - \succ entering data and resolving queries in timely manner
- Supporting Monitor / Data manager during the routine
 remote/on-site visits/central monitoring
- Resolving all pending issues after any remote/on-site visit
 respecting the deadline agreed
- > Being compliant with protocol and its procedures as much as possible
- > Being available for any discussion, questions, feedback (PI and site staff)

IBCSG
COMPLETENESS OF SOURCE DOCUMENTS



> INFORMED CONSENT PROCESS

Patient has been informed about the protocol and its procedures Patient has had enough time to read and understand the consent Patient has received a copy of the consent

- SCREENING INFORMATION AND ITS PROCEDURES Patient wishes to become pregnant
- RANDOMIZATION INFORMATION AND ITS PROCEDURES Non hormonal contraceptive methods All inclusion/exclusion criteria verified. Patient is able to be enrolled

The monitor is on site and needs to confirm each tick box for the inclusion of the patient. What is the fastest and easiest way for all involved people?

Why do you think it is important, that the contraception method or the discussion about it is mentioned in the patient chart?



PROCEDURES: TRANSLATIONAL RESEARCH

CENTRAL EVALUATION: AMH, FSH, E2, Serum Progesterone, ctDNA

You are provided with an Initial kit which consists of: **Cryovials**, **Labels** (with appropiate blood draw time points and **cryoboxes**.



Step 1

Step 2

Step 3

All serum/plasma samples must be stored locally at -80°C (T deviation form in case T above -40°C)

TRANSLATIONAL RESEARCH IS A CRUCIAL ASPECT OF THIS STUDY AND ALL SAMPLES COLLECTED WILL BE CHECKED BY THE MONITOR AT EACH ON SITE-VISIT.



PROCEDURES: PATIENT DIARY



- Patient diary is provided to patient at time of registration
- Patient diary collects information about menses. Start point for completion is ET interruption (might be retrospectively if patient stopped up to one month prior to registration)
- The diary is also a reminder to the patient to have their obligatory blood draws during specified days in their menstrual cycle
- Patient diary needs to be signed both by Patient and Investigator at each visit

PATIENT DIARY IS A SOURCE DOCUMENT!

During an audit/inspection, patient diary of a certain patient is not available/not complete. What impact could it have?



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IBCSG 48-14/BIG 8-13 - POSITIVE STUDY PATIENT MENSTRUAL DIARY

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Date of Enrollment in Study	1	1
Date of \$T interruption	11	1
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TAKE HOME MESSAGES



CRITICAL ASPECTS OF THIS TRIAL FROM THE MONITOR / DATA MANAGER PERSPECTIVE:

> COMPLETENESS OF SOURCE DOCUMENTS

➤ TRASLATIONAL RESEARCH

► PATIENT DIARY



IBCSG 48-14 / BIG 8-13 ALLIANCE # A221405 **POSITIVE TRIAL**

LEARNING CHECKS

INVESTIGATOR MEETING

IBCSG ANNUAL MEETING AMSTERDAM, 12 MARCH 2016





FIRST YEAR TRIAL CONDUCT - LEARNING CHECKS ELIGIBILITY CRITERIA





ELIGIBILITY CRITERIA



Has received adjuvant ET (SERM alone, GnRH analogue plus SERM or AI) for ≥18 months but ≤30 months for early breast cancer

Patient started LHRH analogue together with adjuvant CT.

She started TAM 6 months later.

Is months after LHRH start she wants to interrupt ET to get pregnant.

Only 12 months of TAM !?!

ELIGIBLE !



ELIGIBILITY CRITERIA



Adjuvant ET must have stopped within 1 month prior to enrollment

month 0 = date of ET interruption



She **interrupted ET 2 months ago after 30 months** because she wanted a baby **NOT ELIGIBLE**

She **interrupted ET 15 days ago after 18 months** because she wanted a baby **ELIGIBLE - register the patient within 15 days!**

She started ET 12 months ago but now she wants a baby NOT ELIGIBLE NOW - WAIT 6 months!







Patient must be ACCESSIBLE for follow up

ELIGIBILITY CRITERIA!

Do not enroll patients unable to come to your site for visits and/or patients with a history of noncompliance



- TR blood samples for central evaluation!
- Menstruation recovery, pregnancy and offspring data collection.



PATIENT MANAGEMENT

Resumption of menses and conception depends on patient's age and adjuvant treatment received.

The 2 year interruption period is approximate!

Can patients get pregnant after 23 months from ET interruption?

Yes!

The patient will restart ET after delivery and breastfeeding (if feasible and desired)



PATIENT MANAGEMENT



 Patients must be advised to use effective non hormone-containing contraception or be abstinent for 3 months after ET interruption (NOT enrollment) before attempting conception.

to be reported promptly to the IBCSG by submitting the Pregnancy Form (48-PREG)

Patient will not be excluded from the trial and will be followed as per protocol



PATIENT MANAGEMENT



What if a patient does not succeed in getting pregnant within 24 months after ET interruption, decides not to resume ET and becomes pregnant later on?

Patient will not be excluded from the trial and will be followed as per protocol

And should TR assessments be performed?

YES, plasma for ctDNA must be taken the second trimester of pregnancy, 3-6 months after ET resumption (if she restarts ET) and at relapse (if this occurs)







TR ASSESSMENTS TIME POINTS

- Some blood draws time points depend strictly on recovery of menses.
- Recommend patients to contact you as soon as they recover menses to carefully plan TR assessments

 Since ET must have stopped within 1 month prior to enrollment, registration and ET interruption may not always occur in the same date. Visits and TR assessments need to be planned according to the trial schedule from ET interruption (NOT from enrollment)



Visits and TR assessments PLANNER available on the IBCSG or CTSU websites.







- Take the 3M serum for ovarian function on days 2-5 of the menstrual cycle that is closer to the 3M time point, either before or after. The same applies to 6M serum progesterone on day 21-25 of the menstrual cycle.
- 2. Stick to the protocol as much as possible. If not possible, take the blood samples/ perform TV US in any case.



TR ASSESSMENTS TIME POINTS

Transavaginal US



IBCSG

For patients who already recovered menses, transvaginal US at month 3 can be performed on day 2-5 of the menstrual cycle (same day of serum for ovarian function).

The same applies to month 6 when TV US can be taken on day 21-25 of the menstrual cycle (same day of serum progesterone).

Patients (and/or gynecologists) who are not comfortable in performing transvaginal US during menses, need to come to the hospital in different days.

TR ASSESSMENTS

What if a patient resumes ET before month 12 for any reason?

- All TR assessments from that moment to month 12 should NOT been performed.
- The only TR assessment that must always be done is ctDNA 3-6 months after ET resumption and at relapse, if this occurs.







FAQS

http://www.ibcsg.org/Member/Clinical_Trials/Open_Trials/ ibcsg_48-14_positive/Pages/FrequentlyAskedQuestionsFAQ.aspx









THANK YOU FOR THE ATTENTION

