

Fast Facts

WF 97415: Understanding and Predicting Breast Cancer Events after Treatment (UPBEAT)

840 Women with Stage I – III Breast Cancer

Inclusion Criteria

- Stage I-III female breast cancer (including inflammatory and newly diagnosed, or locally recurrent but not metastatic breast cancer being treated with curative intent)
- > 18 years old
- Scheduled to receive chemotherapy and/or estrogen antagonist aromatase inhibitors (anastrozole [Arimidex], letrozole [Femara], exemestane [Aromasin]).
- Able to hold breath for 10 seconds
- ECOG performance status 0 – 2*
- Able to walk at least 2 blocks without chest pain, dyspnea, shortness of breath or fainting
- Able to exercise on a treadmill or stationary cycle
- Participants in other ongoing clinical trials are eligible for this study

Exclusion Criteria

- Those with ferromagnetic cerebral aneurysm clips or other intraorbital/intracranial metal; pacemakers, defibrillators, functioning neurostimulator devices, or other implanted non-compatible MRI devices
- If previously measured, known LVEF < 50%
- Symptomatic claustrophobia
- Unable to provide informed consent
- At the beginning of the study, pregnant women and women who are breast feeding will not be enrolled.
- Severe pulmonary hypertension
- Within the past 6 months:
 - Acute pulmonary embolus
 - Deep vein thrombosis
- Within the past month:
 - Heart attack
 - Unstable or stable angina (cardiac chest pain)
 - Left main coronary artery disease
 - Symptomatic heart failure
 - Uncontrolled hypertension (SBP > 180 mm Hg or DBP > 120mm Hg)
 - Severe valvular heart disease
 - Uncontrolled metabolic disease (diabetes with fasting BS >300 mg/dl, thyrotoxicosis, myxedema)
 - Aortic aneurism (>45 mm diameter) or aortic dissection
 - Uncontrolled slow or fast heart rhythm causing symptoms or hemodynamic compromise
 - Hypertrophic obstructive cardiomyopathy
- Patient does not understand English

160 Healthy Women Free of Cancer for Comparison

Inclusion Criteria

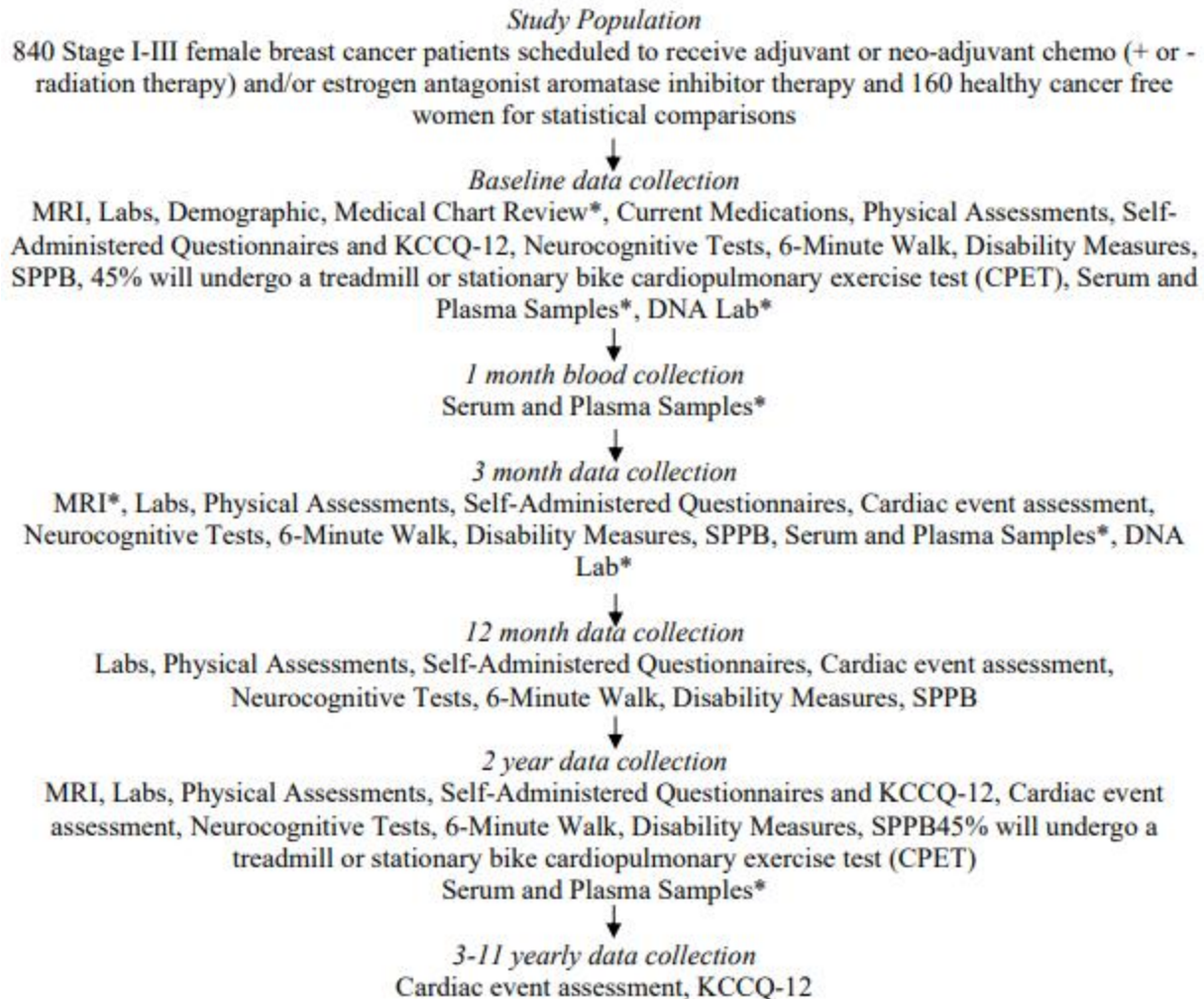
- Healthy female without known coronary artery disease
 - > 18 years old
 - Able to hold breath for 10 seconds
 - ECOG = 0 or 1
 - Able to walk at least 2 blocks without chest pain, dyspnea, shortness of breath or fainting
 - Able to exercise on a treadmill or stationary cycle
 - No personal history of cancer other than superficial skin cancers
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- Has never received chemotherapy, radiation therapy, immunotherapy, or had breast cancer related surgery

Exclusion Criteria

- Inflammatory conditions, such as rheumatoid arthritis, systemic lupus or inflammatory bowel disease
- Overt coronary artery disease or heart failure
 - Those with ferromagnetic cerebral aneurysm clips or other intraorbital/intracranial metal; pacemakers, defibrillators, functioning neurostimulator devices or other implanted non-compatible MRI devices
- If previously measured, known LVEF < 50%
- Symptomatic claustrophobia
- Unable to provide informed consent
 - At the beginning of the study, pregnant women and women who are breast-feeding will not be enrolled.
- Severe pulmonary hypertension
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SCHEMA

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* Indicated for Cancer Treatment Group only