

Tomosynthesis (TS) Versus Ultrasonography (US) in Women With Dense Breast (ASTOUND)

This study is currently recruiting participants. (see [Contacts and Locations](#))

Verified November 2015 by University of Genova

Sponsor:
University of Genova

Collaborator:
University of Sydney

Information provided by (Responsible Party):
Alberto Tagliafico, University of Genova

ClinicalTrials.gov Identifier:
NCT02066142

First received: February 10, 2014
Last updated: November 30, 2015
Last verified: November 2015
[History of Changes](#)

► Purpose

Hypothesis The study aims to demonstrate at least equivalence, or non-significant difference between TS and US in women with dense breast screened negative at 2D Mammography.

If the equivalence between TS and US will be demonstrated, US may be substituted by TS with great benefits for the patients and for the healthcare resources.

Aims

1. Assess if TS may detect additional cancers in dense breast that approximate US detection capability but with less false positive findings than US.
2. If TS detects new cancers in dense breast similarly to US (approximate rate or marginally lower rate), evaluate the the true positive/false positive ratio.
3. Cost-analysis. In case of less false positives detected by TS, the true-positive / false positive trade-off might be strongly in favour of TS with a great potential of costs reduction.

Condition	Intervention
Breast Cancer	Device: 3D mammography (Tomosynthesis) Device: Ultrasound

Study Type: [Interventional](#)
Study Design: [Allocation: Non-Randomized](#)
[Endpoint Classification: Efficacy Study](#)
[Intervention Model: Parallel Assignment](#)
[Masking: Single Blind \(Investigator\)](#)
[Primary Purpose: Diagnostic](#)

Official Title: Tomosynthesis (TS) Versus Ultrasonography (US) in Screening Women With Dense Breast

Resource links provided by NLM:

[Genetics Home Reference](#) related topics: [breast cancer](#)

[MedlinePlus](#) related topics: [Mammography](#) [Ultrasound](#)

[U.S. FDA Resources](#)

Further study details as provided by University of Genova:

Primary Outcome Measures:

- 1) Sensitivity of TS [Time Frame: up to 36 months] [Designated as safety issue: No]
We want to verify if TS may detect additional cancers in dense breast that approximate US detection capability but with less false positive findings than US.

Secondary Outcome Measures:

- 2) Specificity of TS [Time Frame: up to 36 months] [Designated as safety issue: No]
If TS detects new cancers in dense breast similarly to US (approximate rate or marginally lower rate), evaluate the the true positive/false positive ratio.

Estimated Enrollment: 4000

Study Start Date: December 2012

Estimated Study Completion Date: July 2018

Estimated Primary Completion Date: July 2018 (Final data collection date for primary outcome measure)

Arms	Assigned Interventions
Active Comparator: Tomosynthesis Tomosynthesis will be compared to Ultrasound	Device: 3D mammography (Tomosynthesis) Tomosynthesis will be used as normally employed in clinical practice
Ultrasound Ultrasound (sensitivity and specificity) will be compared to Tomosynthesis	Device: Ultrasound

▶ Eligibility

Ages Eligible for Study: 18 Years to 90 Years

Genders Eligible for Study: Female

Accepts Healthy Volunteers: No

Criteria

Inclusion Criteria:

- Asymptomatic subjects <50 years of age presenting for mammography, with the exception of those that, on previous mammograms are found to have breast density 1-2 according to the Breast Imaging Reporting and Data System (BIRADS D1-2). - Asymptomatic subjects ≥ 50 years of age who request mammography and have breast density BIRADS 3-4.
- No history of breast cancer - Written informed consent

Exclusion Criteria:

- Pregnant and breast feeding women

- No history of breast cancer - Written informed consent

Exclusion Criteria:

- Pregnant and breast feeding women
- Unable to tolerate breast compression
- Breast implants
- Unable to understand or execute written informed consent
- Unable or unwilling to agree to follow-up during observation period

▶ **Contacts and Locations**

Choosing to participate in a study is an important personal decision. Talk with your doctor and family members or friends about deciding to join a study. To learn more about this study, you or your doctor may contact the study research staff using the Contacts provided below. For general information, see [Learn About Clinical Studies](#).

Please refer to this study by its ClinicalTrials.gov identifier: NCT02066142

Locations

Italy

UNIGE	Recruiting
Genova, Italy, 16132	
Contact: Alberto S Tagliafico, MD	+390103637873 alberto.tagliafico@unige.it
Principal Investigator: Alberto S Tagliafico, MD	

Sponsors and Collaborators

University of Genova
University of Sydney

Investigators

Principal Investigator: Alberto S Tagliafico, MD UNIGE

▶ **More Information**

No publications provided

Responsible Party:	Alberto Tagliafico, Assistant Professor, University of Genova
ClinicalTrials.gov Identifier:	NCT02066142 History of Changes
Other Study ID Numbers:	PRA20132014
Study First Received:	February 10, 2014
Last Updated:	November 30, 2015
Health Authority:	Italy: Ethics Committee Italy: Ministry of Health

ClinicalTrials.gov processed this record on March 09, 2016

⬆️ TO TOP

Study Type: Interventional
Study Design: Allocation: Randomized
Endpoint Classification: Safety/Efficacy Study
Intervention Model: Parallel Assignment
Masking: Double Blind (Subject, Caregiver, Investigator)
Primary Purpose: Prevention

Official Title: Randomized Placebo-controlled Phase III Trial of Low Dose Tamoxifen in Women With Breast Intraepithelial Neoplasia

Resource links provided by NLM:

[Drug Information](#) available for: [Tamoxifen](#) [Tamoxifen citrate](#)

[U.S. FDA Resources](#)

Further study details as provided by Ente Ospedaliero Ospedali Galliera:

Primary Outcome Measures:

- Incidence of invasive breast cancer [Time Frame: 36 months] [Designated as safety issue: No]
The Primary endpoint of the proposed trial is to assess if tamoxifen at a low dose, 5mg/d reduces the incidence of invasive breast cancer and ductal carcinoma in situ (DIN 1c, 2, 3) of the breast, in woman operated for lobular intraepithelial neoplasia (LIN1, 2 and 3) or ER-positive ductal intraepithelial neoplasia (DIN 1b, DIN2, DIN3, 1a excluded) of the breast.

Secondary Outcome Measures:

- Incidence of other non-invasive breast disorders [Time Frame: 36 months] [Designated as safety issue: No]
The secondary endpoint will evaluate the incidence of other non-invasive breast disorders (i.e., LIN, ductal atypical hyperplasia), endometrial cancer, clinical bone fractures, cardiovascular events, venous thromboembolic events, and clinically manifest cataract and overall mortality.
- To determine CYP2D6 genotype [Time Frame: 36 months] [Designated as safety issue: Yes]
To determine whether CYP2D6 genotype and blood concentrations of drug and metabolites can explain tamoxifen modulation of surrogate biomarkers tamoxifen efficacy and safety, including circulating IGF-I, hormones, mammographic density, endometrial thickness and hot flashes, tamoxifen efficacy and toxicity on clinical events.

Estimated Enrollment: 1400
Study Start Date: November 2008
Estimated Study Completion Date: December 2023
Estimated Primary Completion Date: December 2019 (Final data collection date for primary outcome measure)

Arms	Assigned Interventions
Experimental: Tamoxifen tamoxifen at daily dose of 5 mg for a total treatment time of 3 years	Drug: Tamoxifen at daily dose of 5 mg for a total treatment time of 3 years
Placebo Comparator: placebo placebo at daily dose of 5 mg for a total treatment time of 3 years	Drug: placebo placebo at daily dose of 5 mg for a total treatment time of 3 years



Detailed Description:

The time interval between Study Start Date (November 2008) and Study First Release (May 17, 2011) was related to bureaucratic problems.

▶ Eligibility

Ages Eligible for Study: 18 Years to 75 Years
Genders Eligible for Study: Female
Accepts Healthy Volunteers: No

Criteria

Inclusion Criteria:

- Women of age < 75 years
- Women operated on for lobular (LIN 2 and 3) or ER positive or unknown ductal (DIN 1-3, excluded DIN 1a) intraepithelial neoplasia. Both incident (diagnosis within 12 months) and prevalent cases (diagnosis between previous 12 and 60 months) will be included, upon stratification.
- Written informed consent

Exclusion Criteria:

- Any type of malignancy, with the exclusion of non-melanoma skin cancer;
- Active proliferative disorders of the endometrium such as atypical hyperplasia, history of active endometriosis, unresected polyps;
- Alterations of metabolic, liver, renal and cardiac grade 2 function (NCI criteria grade 2 or higher);
- Any type of retinal disorders or severe cataract;
- Presence of significant risk factors for venous events, including immobilization within the last 3 months for longer than 2 weeks following surgery or trauma, deep venous thrombophlebitis or other significant venous thrombotic event (VTE) (pulmonary embolism, stroke, etc.);
- Use of tamoxifen, raloxifene or other selective estrogen receptor modulator (SERMs) within the last 4 weeks;
- Anticoagulant therapy in progress (heparin or dicoumarol);
- Active infections;
- Severe psychiatric disorders or inability to comply to the protocol procedures.

▶ Contacts and Locations

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Please refer to this study by its ClinicalTrials.gov identifier: NCT01357772

Locations

Italy

Istituto Scientifico Romagnolo per lo studio e la cura dei tumori
Meldola, Forlì-Cesena, Italy, 47521

Ospedale di Carpi "Bernardino Ramazzini"
Carpi, Modena, Italy, 41012

IRCCS Ospedale Oncologico di Bari - Istituto tumori "G. Paolo II"
Bari, Italy, 70124

Fondazione per la ricerca e la Cura dei Tumori "T. Campanella"
Catanzaro, Italy, 88100

E.O. Ospedali Galliera
Genoa, Italy, 16128

AOU IRCSS San Martino - IST
Genova Italy 16100

tamoxifen; 2016

- A. O. Universitaria Policlinico di Modena
Modena, Italy, 41100
- Istituto nazionale per lo studio e la cura dei tumori, IRCCS "Fondazione Pascale"
Napoli, Italy, 80131
- Fondazione Salvatore Maugeri
Pavia, Italy, 27100
- Ospedale Santa Maria delle Croci
Ravenna, Italy, 48018
- A.O. Universitaria S. Giovanni Battista - "Le Molinette"
Torino, Italy, 10123
- Presidio Ospedaliero "SS. Antonio e Margherita"
Tortona, Italy, 15057
- Ospedale di Circolo e Fondazione Macchi
Varese, Italy, 21100
- A.O. Vicenza
Vicenza, Italy, 36100

Sponsors and Collaborators

- Andrea DeCensi
- Associazione Italiana per la Ricerca sul Cancro
- European Institute of Oncology

Investigators

Principal Investigator: Andrea De Censi, MD E.O.Ospedali Galliera

More Information

No publications provided

Responsible Party: Andrea DeCensi, Medical Oncology Director, Ente Ospedaliero Ospedali Galliera
 ClinicalTrials.gov Identifier: [NCT01357772](#) [History of Changes](#)
 Other Study ID Numbers: GAL 01
 Study First Received: May 17, 2011
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 Health Authority: Italy: The Italian Medicines Agency

Additional relevant MeSH terms:
 Carcinoma in Situ
 Carcinoma
 Neoplasms
 Neoplasms by Histologic Type
 Neoplasms, Glandular and Epithelial
 Tamoxifen
 Antineoplastic Agents
 Antineoplastic Agents, Hormonal
 Bone Density Conservation Agents

Estrogen Antagonists
 Estrogen Receptor Modulators
 Hormone Antagonists
 Hormones, Hormone Substitutes, and Hormone Antagonists
 Pharmacologic Actions
 Physiological Effects of Drugs
 Selective Estrogen Receptor Modulators
 Therapeutic Uses

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