# Efficacy and safety of XM02 compared to filgrastim in patients with breast cancer receiving chemotherapy: A multinational, multicentre, randomised, controlled study

Submission date	Recruitment status	<ul><li>Prospectively registered</li></ul>
21/05/2008	No longer recruiting	<pre>Protocol</pre>
Registration date	Overall study status	<ul><li>Statistical analysis plan</li></ul>
29/05/2008	Completed	Results
Last Edited	Condition category	Individual participant data
16/08/2011	Cancer	Record updated in last year

## Plain English summary of protocol

Not provided at time of registration

## Contact information

## Type(s)

Scientific

#### Contact name

Prof Auro del Giglio

#### Contact details

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## Additional identifiers

**EudraCT/CTIS** number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers

## Study information

#### Scientific Title

## **Study objectives**

XM02 is superior to placebo and equivalent to filgrastim on the duration of severe neutropenia in cycle 1.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Romania: National Ethics Committee of Medicamentului Student Clinic (Comisia Nationala de Etica pentru Studiul Clinic al Medicamentului), Av. Sanatescu Str. No 48, Sect. 1, Bucharest, Date of approval: 19/05/2004 (No 1165)

Hungary: Ethics Committee for Clinical Pharmacology, Medical Research Council, Arany J.u. 6-8, H-1051 Budapest. Date of approval: 16/06/2004 (ref: 22972-1/2004-1017EKL)

Lithuania: Lietuvos Bioethics Committee (Lietuvos Bioetikos Komitetas), Kodas 8871059, Vilniaus g. 33-230, LT-2001. Date of approval: 01/06/2004 (ref: 2004-06-02 Nr. 19/3) Russia: Ethics Committee at the Federal Body of Quality, Efficacy and Safety Control of Medicinal Remedies, 8, Petrovsky Bulvar, Building 1, 103051 Moscow. Date of approval: 16/06 /2004 (ref: 2573)

Slovenia: Committee of the Republic of Slovenia for Medical Ethics. Date of approval: 22/06/2004 (ref: 55/06/04)

South Africa: Ethics Committee of the University of the Free State, Kellner Street, Bloemfontein 9301. Date of approval: 16/02/2005 (ref: No ETOVS Nr. 71/04)

Belarus, Chile, Poland: Centres received ethics approval before recruiting participants.

## Study design

Multinational, multicentre, randomised, controlled study with parallel groups.

## Primary study design

Interventional

## Secondary study design

Randomised controlled trial

## Study setting(s)

Hospital

## Study type(s)

Treatment

## Participant information sheet

Health condition(s) or problem(s) studied

## Breast cancer treated by myelotoxic chemotherapy

#### **Interventions**

Arm 1: XM02, 5 μg/kg body weight/day subcutaneously (s.c.)

Arm 2: Filgrastim, 5 μg/kg body weight/day s.c.

Arm 3: Placebo, 5 μg/kg body weight/day s.c.

The study drug/placebo was administered in each cycle of chemotherapy daily from day 2 (24 hours after chemotherapy) to maximum day 15, minimum 5 days. Study drug was stopped as soon as ANC >  $10 \times 10^9$ L was reached.

#### Intervention Type

Drug

#### Phase

**Not Specified** 

## Drug/device/biological/vaccine name(s)

filgrastim

## Primary outcome measure

Duration of severe neutropenia in cycle 1

## Secondary outcome measures

- 1. Secondary efficacy endpoints:
- 1.1. Incidence of observed febrile neutropenia (FN) (observed FN defined as body temperature of  $>38.5^{\circ}$ C for more than 1 hour, measured axillary with a calibrated standard device, and ANC  $<0.5 \times 10^{9}$ L, both measured on the same day) and of protocol defined FN (intake of systemic antibiotics) by cycle and across all cycles
- 1.2. Duration of severe neutropenia in cycles 2 to 4
- 1.3. Depth of ANC nadir in cycles 1 to 4
- 1.4. Times to ANC recovery in cycles 1 to 4
- 1.5. Mortality
- 2. Safety endpoints, determined at the beginning and at the end of each chemotherapy cycle until day 85, antibody determination until day 180:
- 2.1. Adverse events (AEs)
- 2.3. Safety laboratory assessment
- 2.4. Physical examination
- 2.5. Injection site reactions
- 2.6. Vital signs
- 2.7. Eastern Cooperative Oncology Group (ECOG) performance
- 2.8. Immunogenicity (development of antibodies against study drug)

#### Other:

3. Pharmacokinetics in a subset of patients

## Overall study start date

30/12/2004

## Completion date

# **Eligibility**

#### Key inclusion criteria

- 1. Signed and dated written informed consent
- 2. Age above or equal 18 years, both males and females
- 3. Breast cancer high risk stage II, or stage III or IV (classification according to American Joint Committee on Cancer [AJCC])
- 4. Patients planned/eligible to receive treatment with docetaxel/doxorubicin as routine chemotherapy (CTX) for their breast cancer disease
- 5. CTX naïve
- 6. Eastern Cooperative Oncology Group (ECOG) performance status below or equal 2
- 7. Absolute neutrophil count (ANC) above or equal  $1.5 \times 10^9/L$
- 8. Platelet count above or equal  $100 \times 10^9/L$
- 9. Adequate cardiac function (including left ventricular ejection fraction above or equal 50% as assessed by echocardiography within 4 weeks prior to randomisation)
- 10. Adequate hepatic function i.e., alanine and aspartate aminotransferases (ALT/AST)  $< 2.5 \times 10^{-5} \times$
- 11. Adequate renal function, i.e., creatinine <1.5 x ULN

## Participant type(s)

Patient

#### Age group

Adult

#### Lower age limit

18 Years

#### Sex

Both

## Target number of participants

350

#### Key exclusion criteria

- 1. Participation in a clinical trial within 30 days before randomisation
- 2. Previous exposure to filgrastim, pegfilgrastim or lenograstim
- 3. Known hypersensitivity to docetaxel
- 4. Underlying neuropathy of grade 2 or higher
- 5. Treatment with systemically active antibiotics within 72 hours before CTX
- 6. Treatment with lithium
- 7. Chronic use of oral corticosteroids
- 8. Prior radiation therapy within 4 weeks before randomisation
- 9. Prior bone marrow or stem cell transplantation
- 10. Prior malignancy within the previous 5 years other than basal cell or squamous cell carcinomas or in situ carcinoma of the cervix
- 11. Any illness or condition that in the opinion of the investigator could affect the safety of the

patient or the evaluation of any study endpoint

12. Pregnant or nursing women were excluded. Women of child-bearing potential had to agree to use a chemical or barrier contraceptive during the treatment period.

## Date of first enrolment

30/12/2004

#### Date of final enrolment

26/09/2005

## Locations

## Countries of recruitment

Belarus

Brazil

Chile

Hungary

Lithuania

**Poland** 

Romania

Russian Federation

Slovenia

South Africa

Study participating centre Faculdade de Medicina do ABC Santo André Brazil 09060-650

# Sponsor information

## Organisation

BioGeneriX AG (Germany)

Sponsor details

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## Sponsor type

Industry

#### Website

http://www.biogenerix.com

#### **ROR**

https://ror.org/03xa4xh46

# Funder(s)

## Funder type

Industry

#### **Funder Name**

BioGeneriX AG (Germany)

## **Results and Publications**

## Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration