



CIP to INCIP: 10 years of research on Cancer and Pregnancy

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5 februari 2015

Gynaecologic Oncology and Multidisciplinary
Breast Cancer Center

Cancer and pregnancy - Windows Internet Explorer

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Cancer and pregnancy

Forum for patients Registration study

Cancer and pregnancy

Navigation

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- ▶ Diagnostic examinations
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Current investigations

Prospective study on chemotherapy during pregnancy: pharmacokinetics and paediatric outcome

Cancer complicates approximately 1 in 1000-1500 pregnancies. Since maternal age of pregnant women increases steadily during the last decennium, also the detection of cancer among pregnant women is expected to increase. Retrospective data on pregnancy outcome after oncological treatment during pregnancy are relatively reassuring. Although, in order to inform patients adequately about the risks of the administration of chemotherapy or radiotherapy during pregnancy, we need more solid data on the pharmacokinetics of chemotherapy during pregnancy and on the short and long term outcome of the mother and her child.

We have therefore initiated a prospective study with the intention to determine the pharmacokinetics of cytotoxic drugs during pregnancy and to evaluate the short and long term outcome of the children. This trial is currently open for inclusion.

End-points

Primary end-points

- Short term outcome of children after in utero exposure to chemo/radiotherapy (till the age of 18 months)
- Determination of pharmacokinetic distribution of cytotoxic drugs when administered during pregnancy

Secondary end-points

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Languages

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This initiative is endorsed by

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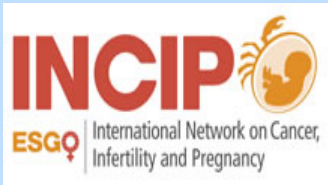
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Matteo LAMBERTINI, Genova, Italy.

Ami Fishman, Kfar-Saba, Israel.

Rhonda FARRELL, Randwick, Australia.



ESGO INCIP – overview initiatives (status 01.06.2014)

Study number	Title	Status
INCIP/2005/01	Registration study cancer during pregnancy	Ongoing
INCIP/2005/02	Follow-up of children after antenatal exposure to chemotherapy/radiotherapy	Ongoing
INCIP/2005/03	Pharmacokinetic study of chemotherapy during pregnancy	Ongoing
INCIP/2008/01	Consensus meeting gynecologic cancers in pregnancy	Completed
INCIP/2010/01	Consensus meeting breast cancer in pregnancy	Completed
INCIP/2010/02	Breast cancer during pregnancy: short term outcome	Completed
INCIP/2010/03	Breast cancer during pregnancy: long term outcome	Completed
INCIP/2010/04	Postpartum breast cancer	Ongoing
INCIP/2011/01	Breast cancer during pregnancy: sentinel lymph node biopsy	Completed
INCIP/2011/02	Tongue cancer during pregnancy	Completed
INCIP/2011/03	ESGO physician's survey	Completed
INCIP/2012/01	Cervical cancer during pregnancy	Ongoing
INCIP/2012/02	Lung cancer during pregnancy	Completed
INCIP/2013/01	Brain tumors during pregnancy	Completed
INCIP/2013/02	Second consensus meeting gynecological cancers in pregnancy	Completed
INCIP/2013/03	Intra Uterine Growth Restriction and cancer treatment in pregnancy	Ongoing
INCIP/2013/04	Pregnancy during cancer treatment	Ongoing
INCIP/2013/05	Breast MRI for pregnancy-associated breast cancer (PABC)	Ongoing
INCIP/2014/01	Melanoma during pregnancy	Ongoing
INCIP/2014/02	Invasive ovarian cancer during pregnancy	Ongoing
INCIP/2014/03	Consensus meeting on hematologic cancers during pregnancy	Ongoing
INCIP/2014/04	Hematologic cancer during pregnancy	Ongoing
INCIP/2014/05	Borderline ovarian cancer during pregnancy	Ongoing
INCIP/2014/06	Evaluation of side effects of chemotherapy administered during pregnancy	Ongoing
INCIP/2014/07	Choriocarcinoma during pregnancy	Ongoing
INCIP/2014/08	NIPT in INCIP	Ongoing
INCIP/2014/09	Characterization of endothelial cell metabolism in disease	New
INCIP/2014/10	GIST	New
INCIP/2015/01	Thyroid cancer during pregnancy	New
INCIP/2015/02	Colorectal cancer during pregnancy	New

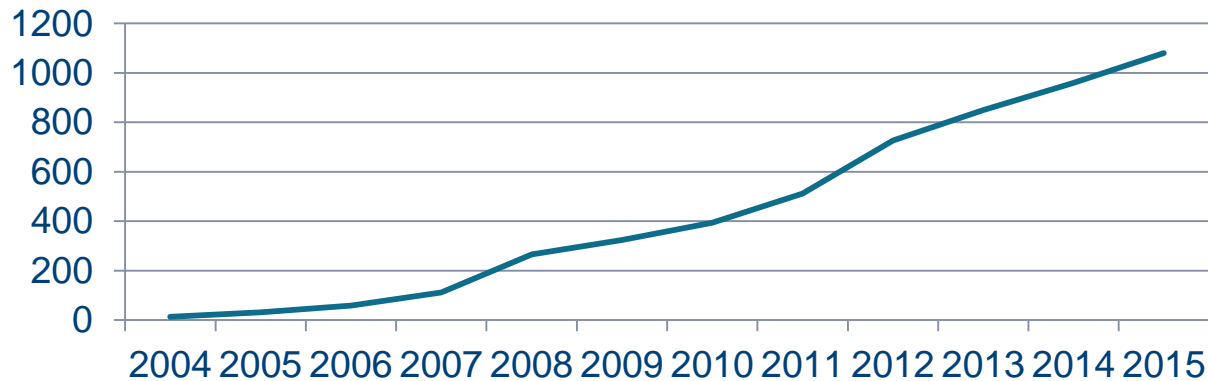
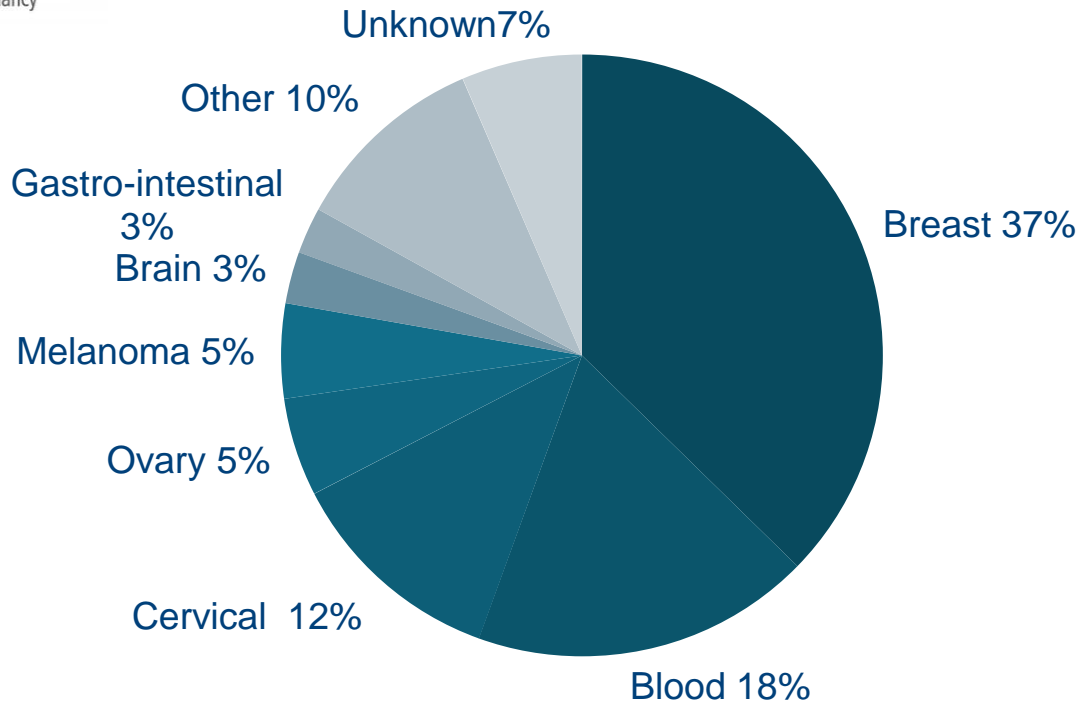
- Copenhagen, Denmark**
- Nijmegen, Netherlands**
- Amsterdam, Netherlands**
- Rotterdam, Netherlands**
- Leuven, Belgium**
- Prague, Czech Republic**
- Milan, Italy**



CENTERS INVOLVED IN FOLLOW UP OF CHILDREN

KU LEUVEN

International registration study



51 members from 21 countries
(representing 45 centers)

1080 cases in European registration study

8 CIP Publications

- Van Calsteren K, Heyns L, De Smet F, Van Eycken L, Mhallem Gziri M, Van Gemert W, Halaska MJ, Vergote I, Ottevanger PB, Amant F. Cancer during pregnancy: an analysis of 215 patients emphasising the **obstetrical and the neonatal outcome**. J Clin Oncol 2010
- Amant F, Van Calsteren K, Halaska M, Mhallem M, Hui W, Lagae L, Willemsen M, Kapusta L, Van Calster B, Wouters H, Heyns L, Han S, Tomek V, Mertens L, Ottevanger P. **Long-term cognitive and cardiac outcome** after prenatal exposure to chemotherapy in children 18 months or older: an observational study. Lancet Oncol 2012
- Loibl S, Han SN, von Minckwitz G, Bontenbal M, Ring A, Giermek J, Fehm T, Van Calsteren K, Linn S, Schlehe B, Gziri MM, Westenend P, Müller V, Heyns L, Rack B, Van Calster B, Harbeck N, Lenhard M, Halaska M, Kaufmann M, Nekljudova V, Amant F. Treatment of **breast cancer during pregnancy**: an observational study. Lancet Oncol 2012
- Mhallem M, Han S, Van Calsteren K, Heyns L, Delaere P, Nuyts S, Van den Heuvel F, Cheron A, Fossion E, Van den Weyngaert D, Lok C, Amant F. **Tongue cancers during pregnancy**: Case reports and review of literature. Head Neck 2013
- Han S, Kesic V, Van Calsteren K, Petkovic S, Amant F, on behalf of the ESGO 'Cancer in Pregnancy' Task Force. Cancer in pregnancy: a **survey of current clinical practice**. Eur J Obstet Gynecol Reprod Biol 2013
- Amant F, von Minckwitz G, Han S, Bontenbal M, Ring A, Giermek J, Wildiers H, Fehm T, Linn S, Schlehe B, Neven P, Westenend P, Müller V, Van Calsteren K, Rack B, Nekljudova V, Harbeck N, Untch M, Witteveen P, Schwedler K, Thomssen C, Van Calster B, Loibl S. **Prognosis of women with primary breast cancer** diagnosed during pregnancy: results from an international collaborative study. J Clin Oncol. 2013
- Boussios S, Han S, Fruscio R, Halaska MJ, Ottevanger PB, Peccatori FA, Koubková L, Pavlidis N, Amant F. **Lung cancer** in pregnancy: report of nine cases from an international collaborative study. Lung Cancer. 2013
- Verheecke M, Halaska MJ, Lok CA, Ottevanger PB, Fruscio R, Dahl-Steffensen K, Kolawa W, Mhallem Gziri M, Han SN, Van Calsteren K, Van den Heuvel F, De Vleeschouwer S, Clement PM, Menten J, Amant F, On behalf of the ESGO Task Force „Cancer in Pregnancy“. **Primary brain tumors, meningiomas and brain metastases in pregnancy**: Report on 27 cases and review of literature. Eur J Cancer. 2014



- ▶ [Task Forces](#)
- ▶ [Psycho-Oncology](#)
- ▶ [Fertility Preservation](#)
- ▶ [Surgery Harmonisation](#)
- ▶ [Trophoblastic Diseases](#)

Fertility Preservation

Mission Statement

The Task Force promotes knowledge among health care workers and the public on infertility induced by treatment of gynaecologic cancers through national and international collaboration among Oncologists, Reproductive Specialists, and Allied Health Workers to promote research, education and to develop new strategies of fertility preservation.

Objectives

The Task Force's initial objectives will focus on fertility preservation in all gynaecologic cancers in which fertility preservation techniques should be offered to patients. As a cooperating counterpart to the frequently used techniques of reproductive medicine (e.g. cryopreservation of ovarian tissue and oocytes), this task force will mainly focus on the feasibility and safety of fertility preservation techniques, including conservative medical management of endometrial cancer and surgical procedures maintaining fertility (e.g. trachelectomy in cervical cancer).

Activities

The main activities within the next two years are establishing networks and cooperation with regional and supra-regional groups in order to increase public awareness and optimise fertility preservation techniques. It will do so by evaluating current available evidence and consecutively establishing evidence-based guidelines. A special session on Fertility Preservation was held during the ESGO16 2009 Meeting.

Working Group

Chair:
Dominik Denschlag, Freiburg, Germany

Members:
Vesna Kesic, Serbia
Nicholas Reed, UK
Alexandros Rodolakis, Greece
Mandy Mangler, Germany
Philippe Morice, France

All ESGO members with a special interest in fertility preservation are cordially invited to register by clicking [here](#).

Task Force working group contact:
dominik.denschlag@hochtaunus-kliniken.de

Clinical Recommendation on Fertility Preservation in Borderline Ovarian Neoplasm: Ovarian Stimulation and Oocyte Retrieval after Conservative Surgery

Dominik Denschlag Michael von Wolff Frederic Amant Vesna Kesic
Nicholas Reed Achim Schneider Alexandros Rodolakis

Task Force Fertility Preservation, European Society of Gynecologic Oncology, European Society of Human
Reproduction and Embryology, and Department of Obstetrics and Gynecology, University of Freiburg School of
Medicine, Freiburg, Germany

ORIGINAL STUDY

Fertility Preserving Management in Gynecologic Cancer Patients *The Need for Centralization*

*Vesna Kesic, MD, PhD, Alexandros Rodolakis, MD, PhD, Dominik Denschlag, MD, PhD,
Achim Schneider, MD, MPH, Philippe Morice, MD, PhD, Frederic Amant, MD, PhD,
and Nicholas Reed, MB, BS, MRCP (UK), FRCP, FRCP (Glas)*



18th INTERNATIONAL MEETING OF THE EUROPEAN SOCIETY OF GYNAECOLOGICAL ONCOLOGY (ESGO)

Liverpool, UK | October 19-22, 2013



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[18th International Meeting of the European Society of Gynaecological Oncology | ESGO 2013, Liverpool](#)

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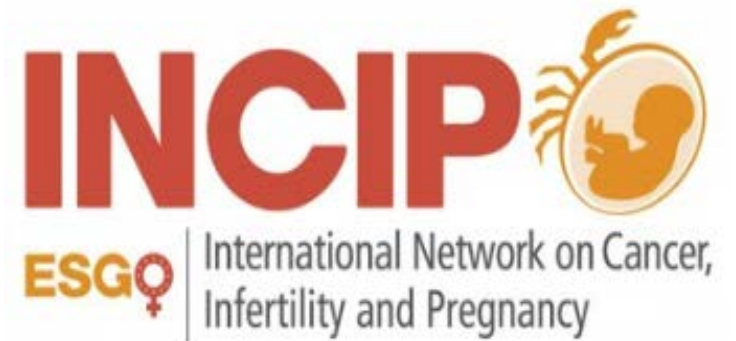
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2005



2014



New registration tool

- Cancer in pregnancy
- Fertility preservation in young women
- Controls: cancer in women < 40 years of age

Info new registration tool



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Patients



1 Found

Filter Criteria

Patient ID

Malignancy Type

Patient Last Name

Status

Patient First Name

Registered By



ID	Name	Status	Malignancy Type	Perc	Registered On	Registered By	Last Modified On	Last Modified By	
1	Bibber Bert	open	Breast Cancer	%	02/02/2015 01:54	WSP	02/02/2015 01:54	WSP	

CONTACT

HISTORY

DIAGNOSIS

TREATMENT

FOLLOW UP

OBSTETRICS

Oncological Diagnosis [Bibber]

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Date of diagnosis

2015-02-04

(Sub)type of malignancy

Invasive Ductal Adenocarcinoma



Presentation

- | | | | |
|------------------|--------------------------------------|-------------------------------------|--|
| Asymptomatic | <input checked="" type="radio"/> Yes | <input type="radio"/> No | <input type="radio"/> Unknown |
| Lump | <input type="radio"/> Yes | <input checked="" type="radio"/> No | <input type="radio"/> Unknown |
| Mastitis | <input type="radio"/> Yes | <input type="radio"/> No | <input checked="" type="radio"/> Unknown |
| Peau d'orange | <input type="radio"/> Yes | <input checked="" type="radio"/> No | <input type="radio"/> Unknown |
| Nipple discharge | <input checked="" type="radio"/> Yes | <input type="radio"/> No | <input type="radio"/> Unknown |
| Nipple inversion | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

ESG♀19

INTERNATIONAL MEETING OF
THE EUROPEAN SOCIETY OF
GYNAECOLOGICAL ONCOLOGY (ESGO)
OCTOBER 24-27, 2015 | NICE, FRANCE

European Gynaecological Oncology Congress 2015



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