

Fertility after Chemo- and Radiotherapy in Paediatric and Adolescent Patients (FeCT)

Summary:

In a nation-wide survey "Fertilität nach Chemo- und Strahlentherapie im Kindes- und Jugendalter, FeCt", former childhood-cancer patients from the German Cancer Registry („Deutsches Kinderkrebsregister“, DKKR) were asked about their fertility and psychosocial dimensions of their former disease. Pelvic irradiation was associated with a high risk of infertility in men and in women. Also a cancer diagnosis after 13 years of age was associated with up to double the risk of being infertile compared to patients who have been diagnosed up to the age of 13. The results could be confirmed in hormone analyses of 163 former cancer patients from Berlin.

In case of threatened infertility an adequate and early patient counselling about possible fertility preserving measures is necessary and an important task of the treating physician. During the last 25 years the patient counselling improved significantly from only 33% during 1980-1984, up to 51% during the years 2000-2004.

Currently, analyses of bone marrow transplant and brain tumor patients, as well as investigations about the health of children of former childhood-cancer-patients, from 7 European research centres are planned.

Principal investigator:

Borgmann, MD, Dept. of Pediatrics

Project coordinator:

Keil, MD, MPH
Hohmann, MSc

Research associate:

Data management:

Reich

Project coordination office:

Cooperation:

Henze, MD, Pädiatrie
Blankenstein, MD, Pädiatrie
Reinmuth, Pädiatrie
Schlenger, MD, Strahlentherapie

Wickmann, MD, Berlin Buch

Kaatsch, MD, Mainz

Willich, MD, Münster

Bölling, MD, Münster

Biometrics:

Project duration:

2007-2013

Project status:

completed

Funding:

German Child Cancer Foundation

others

Publication:

Koustenis E., Pfitzer C., Balcerek M., Reinmuth S., Zynda A., Stromberger C., Hohmann C., Keil T. & Borgmann-Staudt A.: Impact of cranial irradiation and brain tumor location on fertility: a survey. *Klin Padiatr* 2013; 225, 320-4

Pfitzer C, Zynda A, Hohmann C, Keil T, Borgmann-Staudt A. Educational level of childhood brain tumor survivors: results from a German survey. *Klin Padiatr*. 2013 May;225(3):138, 44

Reinmuth S., Hohmann C., Rendtorff R., Balcerek M., Holzhausen S., Müller A., Henze G., Keil T. & Borgmann-Staudt A.: Impact of chemotherapy and radiotherapy in childhood on fertility in adulthood: the FeCt-survey of childhood cancer survivors in Germany. *J Cancer Res Clin* 2013; 139 2071-8

Zynda A, Reinmuth S, Pfitzer C, Hohmann C, Keil T, Borgmann-Staudt A. Childhood leukemia and its impact on graduation and having children: results from a national survey. *Leuk Lymphoma*. 2012 Dec;53(12):2419-22

Reinmuth S, Liebeskind AK, Wickmann L, Bockelbrink A, Keil T, Henze G, Borgmann A. Having children after surviving cancer in childhood or adolescence - results of a Berlin survey. *Klein.Padiatr*. 2008; 220(3): 159-165