



Universiteit
Leiden
The Netherlands

Growth, endocrine function and quality of life after haematopoietic stem cell transplantation

Bakker, B.

Citation

Bakker, B. (2006, April 27). *Growth, endocrine function and quality of life after haematopoietic stem cell transplantation*. Ponsen & Looijen b.v., Wageningen. Retrieved from <https://hdl.handle.net/1887/4375>

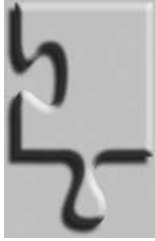
Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/4375>

Note: To cite this publication please use the final published version (if applicable).

CURRICULUM VITAE



The author of this thesis was born on October 4th 1967 in Dubbeldam, the Netherlands. He attended secondary school at the 'Johan de Witt Gymnasium' in Dordrecht and passed his gymnasium β exams in 1986. After studying biomedical sciences at Leiden University for one year, he started his medical training in 1987 at the same university. During medical training the research on late effects of total-body irradiation (TBI) and haematopoietic stem cell transplantation (HCT) was started at the department of oncology of the Leiden University Medical Centre (supervisor Prof.Dr. J.J. Broerse). After obtaining his medical degree in 1995, he continued his research on late effects of TBI and HCT at the department of paediatrics of the Leiden University Medical Centre (head and supervisor Prof.Dr. J.M. Wit). In 1997 he obtained a grant from The Netherlands' Organisation for Scientific Research (NWO-AGIKO stipendium), enabling him to combine his research activities with his training in paediatrics at Leiden University Medical Centre (Prof.Dr.J.M. Wit) and Reinier de Graaf Gasthuis in Delft, (Dr. N van der Lely). In November 2004 he started his training in paediatric endocrinology at the Leiden University Medical Centre (tutor Prof.Dr. J.M. Wit).

LIST OF PUBLICATIONS

Publications in medical journals

Bakker B, Oostdijk W, Geskus RB, Stokvis-Brantsma WH, Vossen JM, Wit JM. Patterns of growth and body proportions after total-body irradiation and haematopoietic stem cell transplantation during childhood. *Pediatr. Res* 2006;**59**:259-264.

Bakker B, Oostdijk W, Wit JM. Final height after transplantation in childhood. *Blood* 2005;**106**:2592-3 (*letter*)

Bakker B, Oostdijk W, Bresters D, Walenkamp MJ, Vossen JM, Wit JM. Disturbances of growth and endocrine function after busulphan-based conditioning for haematopoietic stem cell transplantation during infancy and childhood. *Bone Marrow Transplant.* 2004;**33**:1049-56.

Helder DI, Bakker B, de Heer P, van der Veen F, Vossen JM, Wit JM, Kaptein AA. Quality of life in adults following bone marrow transplantation during childhood. *Bone Marrow Transplant.* 2004;**33**:329-36.

Bakker B, van der Eerden BCJ, Koppenaar DW, Karperien M, Wit JM. The effect of X-irradiation on growth and the expression of Parathyroid Hormone related Peptide and Indian Hedgehog in the tibial growth plate of the rat. *Horm. Res.* 2003;**59**:35-41.

Bakker B, Massa GG, Oostdijk W, Weel-Sipman MH, Vossen JM, Wit JM. Pubertal development and growth after total-body irradiation and bone marrow transplantation for haematological malignancies. *Eur.J.Pediatr.* 2000;**159**:31-7.

Cohen A, Rovelli A, Bakker B, Uderzo C, van Lint MT, Esperou H, Gaiero A, Leiper AD, Dopfer R, Cahn JY, Merlo F, Kolb HJ, Socie G. Final height of patients who underwent bone marrow transplantation for hematological disorders during childhood: a study by the Working Party for Late Effects-EBMT. *Blood* 1999;**93**:4109-15.

Vossen JM, Brinkman DM, Bakker B, Hoogerbrugge PM, ten Cate R. Rationale for high-dose cyclophosphamide and medium-dose total body irradiation in the conditioning of children with progressive systemic and polyarticular juvenile chronic arthritis before autologous stem cell transplantation. *Rheumatology* 1999;**38**:762-3.

Bakker B, Massa GG, Van Rijn AM, Mearadji A, Van der Kamp HJ, Niemer-Tucker MM, van der Hage MH, Broerse JJ, Wit JM. Effects of total-body irradiation on growth, thyroid and pituitary gland in rhesus monkeys. *Radiother.Oncol.* 1999;**51**:187-92.

Bakker B, Massa GG, Oostdijk W, Vossen JM, Van Weel-Sipman MH, Wit JM. Gonadal function and bone marrow transplantation. *J.Pediatr.* 1997;**131**:651-2. (*letter*)

Niemer-Tucker MM, Sluysmans MM, Bakker B, Davelaar J, Zurcher C, Broerse JJ. Long-term consequences of high-dose total-body irradiation on hepatic and renal function in primates. *Int.J.Radiat.Biol.* 1995;**68**:83-96.

Abstracts

Bakker B, Oostdijk W, Geskus RB, Stokvis-Brantsma WH, Vossen JM and Wit, JM. Effect of growth hormone therapy in survivors of haematopoietic stem cell transplantation and total-body irradiation. *Horm Res* 2005;**64**(S1): 240

Bakker B, Oostdijk W, Geskus RB, Stokvis-Brantsma WH, Vossen JM and Wit, JM. Peak Height Velocity and Body Proportions after Total-Body Irradiation and Hematopoietic Stem Cell Transplantation during Childhood. *Horm Res* 2004;**62**(S2): 39

Bakker B, Oostdijk W, Stokvis-Brantsma WH, Walenkamp MJ and Wit, JM. The effect of growth hormone therapy in children with impaired growth after hematopoietic stem cell transplantation. *Horm Res* 2003;**60**(S2):49

Bakker B, ten Have LC, Oostdijk W, Vulsma T. Accidental radioiodide treatment for hyperthyroidism in the second trimester of pregnancy: a case report. *Horm Res* 2003;**60**(S2):103

Bakker B, Oostdijk W, Van Weel-Sipman MH, Walenkamp M-J, Vossen JM and Wit JM. Growth hormone neurosecretory dysfunction (GHND) after hematological stem cell transplantation (HSCT) in two survivors of childhood leukemia without a history of irradiation. *Horm.Res.* 2002;**58** (S2):30

Bakker B, Oostdijk W, Van Weel-Sipman MH, Wit JM, Vossen JM. Follow-up van 'genezen' patiënten na hematologische stamceltransplantatie. pp 243-250 In: Nascholingsweek Kindergeneeskunde Leiden 2002; Toekomstmuziek. Boerhaave Commissie, Leiden 2002, (ISBN 9067674974).

Bakker B, Oostdijk W, Stokvis-Brantsma WH, Vossen JM and Wit JM. Growth, growth hormone (GH) secretion and response to GH therapy in children with growth retardation after bone marrow transplantation. *Pediatr.Res.* 2001;**49**(6):87a

Bakker B, Oostdijk W, Stokvis-Brantsma WH, Vossen JM and Wit, JM. Growth hormone treatment after bone marrow transplantation, first year results in 9 patients. *Horm. Res.* 2000;**53**(S2):P2-536.

Bakker B and Vossen JM. Late effects of radio- and chemotherapy for bone marrow transplantation in children. Symposium: Environment- and aging-related diseases (marking 400 years of relations between Japan and the Netherlands and the 425th anniversary of the University Leiden). 07-06-2000. (*Symposium abstract book*)

Bakker B, Koppelaar DW, Karperien M, Van der Eerden BC and Wit JM. Effects of X-Irradiation on Growth and Parathyroid Hormone-related Peptide (PTHrP) Expression in the Epiphyseal Growth Plate of the Rat. *Horm. Res.* 1999;**51**(S2):O 52.

Bakker B, Massa GG, Oostdijk W, Van Weel-Sipman MH, Vossen JM and Wit JM. Pubertal development and fertility after total-body irradiation and bone marrow transplantation. *Horm. Res.* 1998;**50**(Suppl. 3):116.

Bakker B, Oostdijk W, Massa GG, Van Weel-Sipman MH, Vossen JM and Wit JM. Puberteit en fertiliteit na totale lichaamsbestraling en beenmergtransplantatie wegens hematologische maligniteiten. *Tijdschr.Kindergeneesk.* 1998;**66**(Suppl. 1): 4.

Bakker B, Massa GG, Oostdijk W, Van Weel-Sipman MH, Vossen JM and Wit JM. Pubertal development and fertility after total-body irradiation and bone marrow transplantation. Leiden, the Netherlands, December 1998. Abstract Book 3rd Annual Day of the Postgraduate School 'Molecular Medicine'. p68. (*Symposium abstract book*) 15-12-1998.

Bakker B, Van Rijn AM, Mearadji A, Massa GG, Van der Kamp HJ, Broerse JJ and Wit JM. The effects of total-body irradiation on growth and endocrine organs in rhesus monkeys. Stockholm, Sweden, June 1997. Mini-poster Book of the 5th joint meeting of the ESPE & LWPES. (*Symposium abstract book*) 22-6-1997.

Bakker B, Van Rijn AM, Mearadji A, Massa GG, Broerse JJ and Wit JM. The effects of total-body irradiation on growth and endocrine organs in rhesus monkeys. *Horm.Res.*1997;**48**(Suppl. 2):61.

Cohen A, Rovelli A, Uderzo C, van Lint MT, Socié G, Gaiereo A, Baker N, Bakker B, Zintl F and Kolb HJ. Final height of patients who underwent bone marrow transplantation (BMT) during childhood: a study from the working party for late effects-EBMT. *Horm.Res.* 1997;**48**(Suppl. 2):64.

Koppenaal DW, Bakker B, Van der Eerden BCJ, Löwik CWGM, Massa GG and Wit JM. Radiation-induced growth retardation and apoptosis in tibia of Wistar rats. *J.Bone Miner.Res.*1997;**12**(Suppl. 1):S519.

Cohen A, Rovelli A, Uderzo C, van Lint MT, Socié G, Gaiereo A, Baker N, Bakker B, Zintl F and Kolb HJ. Final height of patients who underwent BMT during childhood: a study from the working party for late effect-EBMT. *Bone Marrow Transplant.* 1997;**19**(Suppl. 1):S209.

Bakker B, Massa GG, Van Rijn AM, Mearadji A, Van der Kamp HJ, Niemer-Tucker MM, van der Hage MH, Broerse JJ, Wit JM. The effects of total-body irradiation on growth and endocrine organs in rhesus monkeys. Rotterdam, the Netherlands, May 1997. Abstract Book 2nd Annual Day of the Postgraduate School 'Pathophysiology of Growth and Differentiation' p65. (*Symposium abstract book*) 15-5-1997.

Bakker B, Niemer-Tucker MM, Davelaar J and Broerse JJ. The effects of single dose TBI on hepatic and renal function in non-human primates and patients. Rotterdam, the Netherlands, May 1996. First Annual Day of the Postgraduate School 'Pathophysiology of Growth and Differentiation'. (*Symposium abstract book*) 11-5-1996.

Broerse JJ, Bakker B, Davelaar J, Leer JWH, Niemer-Tucker MM, Noordijk EM. The effects of single dose TBI on hepatic and renal function in non-human primates and patients. In Karaoglou A, Desmet G, Kelly GN, Menzel HG, eds. The radiological consequences of the Chernobyl accident (Proceedings of the first international conference, Minsk Belarus March 18-22 1996), pp 611-7. Brussels: European Commission and the Belarus, Russian and

Ukrainian Ministeries on Chernobyl Affairs, Emergency Situations and Health, 1996 (*Conference proceedings*).

Nierner-Tucker MM, Sluysmans MM, Bakker B, Davelaar J and Broerse JJ. The long term consequences of high dose total body irradiation on hepatic and renal function in primates. *Radiother.Oncol* 1994;32(Suppl. 1):S42.

Nierner-Tucker MM, Bakker B, Davelaar J, Willemze R, Noordijk EM and Broerse JJ. The effect of single dose TBI on hepatic and renal function in long term surviving adult patients. *Radiother.Oncol* 1994;32(Suppl. 1):S43.

Nierner-Tucker MM, Davelaar J, van Ansem B, Bakker B, Sterk CC, Cox A, van Eerd PMCA and Broerse JJ. Long term changes in organ function after TBI in non-human primates for post-irradiation intervals up to 20 years. Abstract Book European Society for Radiation Biology 1994:p123. (*Symposium abstract book*) 01-06-1994.

Nierner-Tucker MM, Bakker B, Sluysmans MM, van Ansem B, Davelaar J, Sterk CC and Broerse JJ. Delayed effects of TBI on various organ functions for post-irradiation intervals up to 20 years. St. Petersburg, Russia. Modern trends in human leukemia IX, NEVA-Wilsede meeting III, 1994 (*Conference proceedings*).