



Universiteit
Leiden
The Netherlands

Massive deep-frozen bone allografts : contamination, immunogenicity and clinical use

Deijkers, Ruud

Citation

Deijkers, R. (2005, January 18). *Massive deep-frozen bone allografts : contamination, immunogenicity and clinical use*. Retrieved from <https://hdl.handle.net/1887/3765>

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/1887/3765>

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

Massive deep-frozen bone allografts

MASSIVE DEEP-FROZEN BONE ALLOGRAFTS

Contamination, Immunogenicity and Clinical Use

Proefschrift

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van de Rector Magnificus Dr. D.D. Breimer,
hoogleraar in de faculteit der Wiskunde en
Natuurwetenschappen en die der Geneeskunde,
volgens besluit van het College voor Promoties
te verdedigen op dinsdag 18 januari 2005
klokke 16:15 uur

Deijkers, R.L.M. - Massive deep-frozen bone allografts: contamination,
immunogenicity and clinical use. Thesis, University of Leiden, Leiden,
The Netherlands. With summary in Dutch.

ISBN 90-9018953-X
NUR 877

© 2005 Ruud Deijkers, Leiden, The Netherlands. All rights reserved.

Lay-out: J.J. Beentjes
Printing: Pasmans Offsetdrukkerij BV, Den Haag, The Netherlands

door

Rudolf Leonardus Maria Deijkers

geboren te Standdaarbuiten
in 1961

Promotiecommissie

Promotor: Prof. Dr. A.H.M. Taminius

Co-promotor: Dr. R.M. Bloem

Referent: Prof. Dr. P.M. Rozing

Overige leden: Prof. Dr. J.L. Bloem

Prof. Dr. P.C.W. Hogendoorn

Prof. Dr. E.M. Noordijk

Prof. Dr. R.P.H. Veth

(Radboud Universiteit Nijmegen)

The publication of this thesis was financially supported by contributions from: Stichting Research Orthopedie en Traumatologie Delft, Nederlandse Orthopaedische Vereniging (NOV), Netherlands Bone bank Foundation, BIS Foundation, Stichting Anna-Fonds, Zimmer Nederland, Biomet Nederland, Stryker Nederland, DePuy/Johnson & Johnson, ND Service, 3M Nederland, Penders Orthopedische Schoentechniek, RX Medical.

Voor Madelon, Emma en Sophie

Contents

Chapter 1	Introduction and aim of the thesis	9
Chapter 2	Contamination of bone allografts:analysis of incidence and predisposing factors	17
Chapter 3	Human bone allografts can induce T cells with high affinity for donor antigens	31
Chapter 4	Hemicortical allograft reconstruction after resection of low-grade malignant bone tumours	49
Chapter 5	Epi-diaphyseal versus other intercalary allografts for tumours of the lower extremity	65
Chapter 6	Allograft-prosthesis composite reconstruction of the proximal femur for bone tumours	89
Chapter 7	Summary and conclusions	111
	Samenvatting en conclusies	117
	Curriculum Vitae	123

