



Universiteit  
Leiden  
The Netherlands

## Radiotherapy in bone metastasis : the Dutch bone metastasis study

Linden, Y.M. van der

### Citation

Linden, Y. M. van der. (2005, May 11). *Radiotherapy in bone metastasis : the Dutch bone metastasis study*. Retrieved from <https://hdl.handle.net/1887/4330>

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/1887/4330>

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

# **Radiotherapy in bone metastases**

---

*The Dutch Bone Metastasis Study*

# **Radiotherapy in bone metastases**

---

*The Dutch Bone Metastasis Study*

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 woensdag 11 mei 2005  
klokke 16.15 uur

door

**Yvette Milene van der Linden**  
geboren te Utrecht  
in 1970

Radiotherapy in bone metastases  
The Dutch Bone Metastasis Study  
© Y.M. van der Linden  
Leeuwarden, 2005

ISBN: 90-9019302-2

Cover and lay-out: Martijn Swart  
Printed by PrintPartners IJskamp, Enschede

Financial support for printing of this thesis by Stichting Steunfonds Kankercentrum Friesland,  
Stichting Klinische Oncologie Leiden and the 3A-out Fonds is greatly acknowledged.

## Promotiecommissie

Promotores: *Prof. Dr. E.M. Noordijk*

*Prof. Dr. J.W.H. Leer*

Co-promotor: *Dr. C.A.M. Marijnen*

Referent: *Prof. Dr. P.J. Hoskin (Mount Vernon Hospital, Northwood, UK)*

Overige leden: *Dr. H.M. Kroon*

*Dr. E. Steenland*

The work presented in this thesis was financially supported by the Dutch Cancer Society (CKVO 93/07) and the Dutch Investigative Medicine Fund of the Health Insurance Executive Board (OG95-050).

*Voor mijn lieve ouders, Peter en Trees*

# Contents

- 1 Introduction and outline
- 2 Impact of randomized trial-outcome in the treatment of painful bone metastases; patterns of practice among radiation oncologists. A matter of believers versus non-believers?  
Radiotherapy and Oncology 2000, 56 (3), 279-281
- 3 Eénmalige bestraling van pijnlijke botmetastasen even effectief als meer-voudige bestraling. Uitkomsten van de Nederlandse Botmetastasen Studie  
Nederlands Tijdschrift voor Geneeskunde 2002, 146 (35), 1645-1650
- 4 Single fraction radiotherapy is efficacious; a further analysis of the Dutch Bone Metastasis Study controlling for the influence of retreatment  
International Journal of Radiation Oncology Biology Physics 2004, 59 (2), 528-537
- 5 Patients with a favorable prognosis are equally palliated with single and multiple fraction radiotherapy: results on survival in the Dutch Bone Metastasis Study  
Submitted for publication
- 6 Simple radiographic parameter predicts fracturing in metastatic femoral bone lesions  
Radiotherapy and Oncology 2003, 69, 21-31
- 7 Comparative analysis of risk factors for pathological fracture in the setting of femoral metastases  
Journal of Bone and Joint Surgery (Br) 2004, 86-B (4), 566-573
- 8 Prediction of survival in patients with metastases in the spinal column  
Cancer 2005, 103 (2), 320-328
- 9 Cost-utility analysis of single versus multiple fraction radiotherapy in patients with painful bone metastases  
Journal of the National Cancer Institute 2003, 95 (3), 222-229
- 10 Discussion and future perspectives  
**Summary / Samenvatting**

## Appendix 1

The effect of a single fraction compared to multiple fractions on painful bone metastases: a global analysis of the Dutch Bone Metastasis Study  
Radiotherapy and Oncology 1999, 52 (2), 101-109

## Appendix 2

Participating investigators of the Dutch Bone Metastasis Study

Curriculum Vitae

Nawoord