Four-dimensional imaging in radiotherapy for lung cancer patients

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List of publications and conference abstracts

Motion-compensated cone-beam CT for accurate online assessment of the position of lung tumours
Medical Physics 2009, in press

Effects of respiration-induced anatomy variations on dose distributions in radiotherapy of lung cancer
V. Mexner, J.W.H. Wolthaus, M. van Herk, E.M.F. Damen, J.J. Sonke
Int J Radiation Oncology, Biology and Physics 2009, in press

Frameless stereotactic body radiotherapy using four dimensional cone beam CT guidance
J.J. Sonke, M.M.G. Rossi, J.W.H. Wolthaus, M. van Herk, E.M.F. Damen, J.S.A. Belderbos
Int J Radiation Oncology, Biology and Physics 2008, issue number not yet assigned

Reconstruction of a time-averaged mid-position CT scan for radiotherapy planning of lung cancer patients using deformable registration.
J.W.H. Wolthaus, J.J. Sonke, M. van Herk, E.M.F. Damen
Medical Physics 2008; 35 (9):3998-4011

Comparison of different strategies to use four-dimensional computed tomography in treatment planning for lung cancer patients.
Int J Radiation Oncology, Biology and Physics 2008; 70 (4):1229-38

Mid-ventilation CT scan construction from four-dimensional respiration-correlated CT scans for radiotherapy planning of lung cancer patients.
Int J Radiation Oncology, Biology and Physics 2006; 65 (5):1560-71

Fusion of respiration-correlated PET and CT scans: correlated lung tumour motion in anatomical and functional scans.
J.W.H. Wolthaus, M. van Herk, S.H. Muller, J.S.A. Belderbos, J.V. Lebesque, J.A. de Bois, M.M.G. Rossi, E.M.F. Damen
Physics in Medicine and Biology 2005; 50 (7):1569-83

Automatic localization of the prostate for on-line or off-line image-guided radiotherapy.
M.H.P. Smitsmans, J.W.H. Wolthaus, X. Artignan, J.A. de Bois, D.A. Jaffray, J.V. Lebesque, M. van Herk
Int J Radiation Oncology, Biology and Physics 2004; 60:623-35
Clinical case session – Lung. The need for individual margins assignment using 4D CT scans and the redundancy of respiratory gated treatment

Invited talk Annual ESTRO meeting 2008, Göteborg, Sweden.

Incorporating motion information of 4D CT scans in the treatment planning of lung cancer patients

Invited talk Annual ESTRO meeting 2007, Barcelona, Spain.

Image quality enhancement using motion estimation in 4D CT images of lung cancer patients

Annual ESTRO meeting 2007, Barcelona, Spain.

Motion estimation and compensating in 4D CT images using phase-based constraint models

ICCR 2007, Toronto, Canada.

Automatic rigid 4D grey-value registration and mid-ventilation determination for respiration-induced moving lung tumours.

ICCR 2007, Toronto, Canada.

Evaluation of different strategies for integration of 4D CT scans into the treatment planning of lung cancer patients

Highlighted session, Annual ESTRO meeting 2006, Leipzig, Germany.

A Simple Method to Reconstruct a Representative Mid-Ventilation CT Scan From 4D Respiration Correlated CT Scans for Radiotherapy Treatment Planning of Lung Cancer Patients

Annual AAPM meeting 2006, Orlando, USA.

The value of respiration corrected PET for determination of the standard uptake value of FDG in lung tumors

J.W.H. Wolthaus, G. Borst, M.M.G. Rossi, J.S.A. Belderbos, S.H. Muller, M. van Herk, J.V. Lebesque, E.M.F. Damen
Annual ESTRO meeting 2005, Lisbon, Portugal.

4D PET and 4D CT image fusion for accurate radiotherapy planning of lung cancer patients

J.W.H. Wolthaus, M. van Herk, S.H. Muller, J.A. de Bois, M.M.G. Rossi, J.S.A. Belderbos, J.V. Lebesque, E.M.F. Damen
Annual ESTRO meeting 2004, Amsterdam, The Netherlands.

Portal to CT image registration using respiration correlated data for the use of patient set-up verification

J.W.H. Wolthaus, L.S. Ploeger, J.A. de Bois, A. Betgen, M. van Herk
Annual ESTRO meeting 2003, Geneva, Switzerland.