

CURRICULUM VITAE

of

EDWIN J.R. VAN BEEK

CURRICULUM VITAE

Family name van Beek

Names Edwin Jacques Rudolph

E-mail edwin-vanbeek@uiowa.edu

TRAINING

1972 - 1979

High school, "Hugo de Groot", Rotterdam, the Netherlands.

1979 - 1980

Coe College, Cedar Rapids, Iowa, U.S.A.

This was as an exchange student through the Netherlands American Commission for Educational Exchange. I studied general sciences, which included Chemistry, Mathematics, and Physics.

1980 - 1987

Erasmus University Medical School, Rotterdam, the Netherlands.

Medical Doctor Degree received January 16th, 1987.

1990 - 1994

Academic Medical Center, University of Amsterdam, the Netherlands.

Thesis entitled "The Epidemiology and Diagnosis of Pulmonary Embolism".

Received **Physical Doctorate in Medicine** on 10th of June 1994.

August 1994 to february 1999

Academic Medical Center, University of Amsterdam, the Netherlands.

Registrar training scheme in **Radiology**.

Registration Diagnostic Radiology March 5th 1999.

March 1998

Registration **Clinical Epidemiologist B**.

November 1999

Fellow of Royal College of Radiologists.

November 1999

Holder ARSAC certification for bone and lung imaging.

January 2000

Holder ARSAC certification for PET imaging.

January 2004

Masters of Education degree, University of Sheffield

May 2004

Special Physician's License, State of Iowa

United States Medical Licensing Examinations

May 2007 – April 2008: **USMLE Step 1, 2CK and 2CS** passed

ECFMG certificate 0-720-911-7 awarded June 25th 2008

March 2009: **USMLE Step 3** passed

EXPERIENCE

february 1987 - january 1988

Senior House Officer Orthopaedics and Trauma. Initially, I was based at Black Notley Regional Orthopaedic Hospital, Braintree, England, for six months of elective orthopaedic surgery. This was followed by 5 months of acute orthopaedics and trauma surgery at the District and General Hospital, Colchester, England.

January 1988 - March 1989

District and General Hospital and Severalls Hospital, Colchester, England.
I was employed as **Senior House Officer Surgical Specialities**, which consisted of 6 months in trauma surgery, 6 months in urology and 3 months in general (abdominal and vascular) surgery.

March 1989 - September 1990

Academic Medical Center, University of Amsterdam, the Netherlands.
I worked as **Surgical Resident (SHO)** in the departments of traumatology and hepatobiliary surgery.

September 1990 - Augustus 1994

Academic Medical Center, University of Amsterdam, the Netherlands.
At the Center for Haemostasis, Thrombosis, Atherosclerosis and Inflammation Research (Head: Prof.Dr. J.W. ten Cate) I worked as a **Haemostasis/Thrombosis Specialist** and also performed clinical trials, which finished with my thesis.

Augustus 1994 - March 1999

Academic Medical Center, University of Amsterdam, the Netherlands.
Registrar/Senior Registrar in Radiology (Head: Prof.dr. J.S. Laméris).
During this period I was involved in the conduct of several clinical trials, as shown in the publications lists below.

March 1999- October 2003

University of Sheffield, Royal Hallamshire Hospital, Sheffield, UK.
Senior Clinical Lecturer/Honorary Consultant in Radiology (Chair: Prof.dr. P.D. Griffiths).

October 2003- May 2004

University of Sheffield, Royal Hallamshire Hospital, Sheffield, UK.
Reader in Radiology/Honorary Consultant in Radiology (Chair: Prof.dr. P.D. Griffiths).

May 2004 – September 2004

University of Sheffield, Royal Hallamshire Hospital, Sheffield, UK.
Professor of Radiology/Honorary Consultant in Radiology (Chair: Prof.dr. P.D. Griffiths)
This became a permanent visiting Chair since 2004 (see below)

September 2004 – present

Carver College of Medicine, University of Iowa, Iowa City, USA
Professor of Radiology (Chair: Professor L. Fajardo), tenured since 2007

September 2004 – present

Medical Director, Division of Physiologic Imaging, Department of Radiology (Director: Eric A. Hoffman)

October 2005 – present

Carver College of Medicine, University of Iowa, Iowa City, USA

Professor of Medicine (Chair: Professor P. Rothman), secondary appointment

December 2006 – present

College of Engineering, University of Iowa, Iowa City, USA.

Professor of Biomedical Engineering (Chair: Professor K.B. Chandran), secondary appointment

August 2007 – present

Founder Quantitative Imaging of Iowa, Inc.

Chief Executive Officer and Chief Medical Officer, Quantitative Imaging of Iowa, Inc.

PROFESSIONAL DEVELOPMENT COURSES

28-04-1999:	Research at University of Sheffield (Staff development)
05-05-1999:	Getting funded (Staff development)
13-05-1999:	Research collaboration (Staff development)
28-10-1999:	Equal opportunities awareness; appointing SpR (NHS/University of Leicester)
28-11 to 3-12-1999:	Categorical course in Diagnostic Radiology: body MR (RSNA)
01-02-2000:	PET awareness day, Royal College Physicians, London
01-03 to 01-05-2000:	Acute body CT training, St James's Hospital, Leeds
25-07 to 26-09-2000:	PET training for ARSAC, King's College Hospital, London
2000-2003:	Masters Education for Clinical Lecturers, University of Sheffield (graduation 16 January 2004)
01-02 to 02-02-2001:	Appraisal, career guidance & counselling, Uni Nottingham
08-11-2001:	Open MRI, BIR, London
July 6-8 2005:	Vital Images training for Vitrea Workstation and software
July 21-23 2005:	Harvard Cardiac CT imaging meeting, Boston, MA.
Feb 8-13 2006:	North Netherlands Heart Days, Curacao, Netherlands Antilles
February-April 2008	FastTrac New Venture Course, Tippie School of Business, University of Iowa
February 2009	Preventing Harrassment on Campus, Supervisors and Staff

THESES

17 december 1997

University of Amsterdam, Ph.D. thesis

Ph.M.M. Kuijer: Diagnostic and therapeutic management of pulmonary embolism

Promotor: Prof.dr. J.W. ten Cate

Co-promotores: dr. H.R. Büller en dr. E.J.R. van Beek

8 may 1998

University of Amsterdam, Ph.D. thesis

F Turkstra: Venous thromboembolism: further optimalization of diagnostic and therapeutic management

Promotor: Prof.dr. J.W. ten Cate

Co-promotores: dr. H.R. Büller en dr. E.J.R. van Beek

January 2003

University of Sheffield, B.Med.Sci thesis (graded: first)

A. Swift Hyperpolarized 3-Helium MRI in diagnosis of chronic obstructive pulmonary diseases

Examiners: Prof. Edwin Chilvers (Cambridge) and Prof Martyn Paley (Sheffield)

24 october 2004

University of Amsterdam, Ph.D. thesis

H.J. Baarslag: Diagnosis and management of upper extremity deep vein thrombosis

Promotor: Prof.dr. J.A. Reekers

Co-promotores: Dr. E.J.R. van Beek, Dr. M.W. Beaumont-Koopman

January 2004

University of Sheffield, B.Med.Sci thesis (graded: 2:2)

Z. Said Hyperpolarized 3-Helium MRI in evaluation of radiotherapy effects in patients with lung cancer.

Examiners: Prof. David Pallot (Leicester) and Prof Martyn Paley (Sheffield)

October 2004

University of Lancaster, M.Sc in Medical Imaging (graded 2:2)

I. M.MacDonald A pilot study of the non-invasive estimation of pulmonary artery pressure using magnetic resonance imaging.

September 2006

University of Sheffield, Ph.D. thesis

N Woodhouse Hyperpolarized 3-Helium MRI

Examiners: Prof. Hans-Ulrich Kauczor (Heidelberg) and Prof. Mike Peters (Brighton)

EDITORIAL WORK

June 1994 - January 1998

Medical Editor "Eerste Hulp", bi-monthly magazine of the National Association of First Aid in the Netherlands

June 1996 – October 1999

Co-editor of the book "***Pulmonary embolism - epidemiology, diagnosis and treatment***", which was published by Blackwell Science Publishers, Oxford/Berlin in October 1999.

Co-editors are: M. Oudkerk (Rotterdam) and J.W. ten Cate (Amsterdam)

January 2001 – June 2001

Radiology Editor for e-Odyssey, an electronic journal of new developments in Medicine. Excerpta Medica were the publishers, sponsorship was by Glaxo-Wellcome. Although I had taken this role, the entire department contributed cases. Sponsorship was withdrawn and the enterprise ceased following the merger with Smith-Kline-Beecham.

March 2002 – December 2004

Member Editorial Board, Medical Imaging Decisions, Blackwell Science publishers, Berlin, Germany.

Guest Editor issues "Pulmonary Embolism", Autumn 2002 and "Ventilation Imaging", Winter 2004.

December 2004 – present

Editor, Imaging Decisions, Blackwell Science publishers, Oxford, UK.

June 2002 – June 2005

Editor of the book "***Functional Lung Imaging***", which was published by Taylor and Francis, New York. Co-editor is D.A. Lipson (University of Pennsylvania).

April – November 2005

Guest Editor Proceedings of American Thoracic Society 2005 (issue: *Research Frontiers in Pulmonary Imaging*)

December 2006 – March 2008

Guest Editor Special Issue "Chest Imaging", Investigative Radiology.

January 2007- present

Editorial Board (Chest section), European Radiology.

January 2007 – March 2009

Editor of the book "***Pulmonary Embolism and Deep Vein Thrombosis***", published by Wiley & Sons, Chichester, UK. This represents the second edition of the book first published in 1999. This book was published in April 2009.

Co-editors are: H.R. Büller (University of Amsterdam) and M. Oudkerk (University of Groningen)

May 2007 – January 2009

Editorial Board (Associate Editor), Journal of Magnetic Resonance Imaging

October 2008 –

Guest Editor, Special Issue “New Frontiers in Chest Imaging”, Journal of Magnetic Resonance Imaging

January 2009 – present

Deputy Editor, Thoracic Section, Journal of Magnetic Resonance Imaging

Reviewer for the following journals (current = within past year)

Academic Radiology
American Journal of Acute Critical Care Medicine
BMC Medical Imaging
British Journal of Radiology
Chest
Critical Care Medicine
European Radiology (current)
European Respiratory Journal
Investigative Radiology
Journal of Applied Physiology
Journal of Internal Medicine
Journal of Magnetic Resonance Imaging (current)
Lancet
Proceeding National Academy of Sciences
Radiology
Respiratory Medicine
Respiratory Medicine & Allergology
Trends in Cardiovascular Medicine

AWARDS AND PRIZES

During my study at Coe College (1979/1980), I received an "**Academic award for outstanding freshmen**" (**Phi Eta Sigma**).

For our publication "Hemodynamic effects and image quality of low-osmolar ionic and non-ionic contrast media during pulmonary angiography" (*Academic Radiology* 1995;2:609-613.) we received the "**Stauffer prize for best clinical article 1995 of the Association of University Radiologists**" which was presented during the annual congress at Birmingham, Alabama on April 19th 1996.

For the abstracts "The clinical course of patients with suspected pulmonary embolism" and "Metallic self-expandable stents for malignant biliary strictures: results and complications in 32 patients", which were presented at the RSNA 1996, I received the **Schering RSNA Prize 1996** for outstanding abstract of Dutch junior radiologists.

For his Ph.D. thesis "MR imaging of the trigeminal nerve", Dr Charles Majoie received the **Philips Prize 1998** for best Dutch radiological thesis. I contributed to three of the chapters in this book.

Upon my departure from the Netherlands, I was granted an **Honorary Senior Lecturership** at the Academic Medical Centre, University of Amsterdam. This came to an end in the Spring of 2005 at my own request.

Following my appointment as Senior Lecturer in Radiology at the University of Sheffield, I was awarded with the **Fellowship of the Royal College of Radiologists (without examination)**.

Commonwealth Games, Manchester 2002: Medal for services as Radiologist at the commonwealth games village medical centre.

World Indoor Athletics Championships, Birmingham 2003: Medal for services as lead Radiologist at the medical centre.

Upon my departure from the UK, I was granted an **Honorary (visiting) Professorship** at the University of Sheffield, which is a 3-yearly renewable appointment (renewed until 2010). I resigned this position effective January 1, 2009 as I was moving back to the U.K. and this could have resulted in conflict of interest.

As recognition for my scientific production, I was listed in **Who's Who** in the following editions:

Who's Who in Science and Engineering - 4th Edition, 1997

Who's Who in Medicine and Healthcare – 2nd Edition, 1998

Who's Who in Medicine and Healthcare – 3rd Edition, 2000

Who's Who in the World – 18th Edition, 2000

Who's Who in Medicine and Healthcare – 6th Edition, 2006

Who's Who in Medicine and Healthcare – 7th Edition, 2009

Who's Who in America – 64th Edition, 2010

Best Oral Presentation at World Congress of Thoracic Imaging competition: 9th place for paper “Assessment of children with CF, comparing hyperpolarized 3-He MRI with Shwachman score, Crispin-Norman score and spirometry. “, May 2005.

Special Award for Outstanding Departmental Service, Department of Radiology, University of Iowa Hospitals and Clinics, June 2005.

New Clinical Initiative, University of Iowa Hospitals and Clinics, March 2006
Cardiac CT Program (total awarded \$ 2,300,000)

American Society of Reproductive Medicine 2006, “In-Training” award for abstract:
Multislice cardiac CT detects early coronary artery disease in young women with polycystic ovary syndrome.

Carver College of Medicine, 2008 The Jason Martin, MD, Medical Student Research Award in Image-Based Research; Luke Gabe, M2: “Quantitative assessment of regional density and air trapping in the lung by computed tomography” Mentor: Dr. Edwin van Beek, Radiology

OTHER FUNCTIONS

During my period in the Netherlands

1990 - 1992

Member preparation committee for consensus meeting "Pulmonary embolism diagnosis" (CBO, Utrecht, chairman Prof Dr E. Briët)

september 1990 - augustus 1994

Part-time casualty physician at the Accident and Emergency department of the Academic Medical Centre.

june 1994 – june 1996

Member adjudication committee international multicentre, randomised trial of heparin vs LMWH (Columbus study).

september 1995 - august 1997

Governing member Resident's Society Academic Medical Centre.

december 1995 - december 1997

Member employer-employee council Academic Medical Centre

september 1997 - december 1998

Member preparation committee for consensus meeting "Diagnosis, prevention and therapy of venous thromboembolism" (CBO, Utrecht, chairman Prof Dr J.W. ten Cate).

september 1997 – june 2000

Member Task Force "Pulmonary embolism", European Society of Cardiology (Chair: Prof Dr A Torbicki, Warsaw, Poland).

During my period at the University of Sheffield (UK)

Local committees

April 1999 – October 2001:

Member trans-Sheffield working group for diagnosis of Pulmonary Embolism (Chair: Dr T Cleveland). This working group was amalgamated in October 2001 with the DVT working group (see below).

April 1999 – October 2001:

Member working group for diagnosis and management of Deep Vein Thrombosis (Chair: Mr J Beard). This group was amalgamated in October 2001 to become the working group for VTE management (see below).

October 2001 – September 2004:

Member working group for diagnosis and management of Venous Thrombo Embolism (Chair: Prof C Welsh). This group introduced city-wide protocols for management of DVT and PE.

May 1999 – August 2000:

Member Research Interface Project Group on Imaging (Chair: Prof C Reilly)

August 1999 – September 2004:

Lead Radiologist trans-Sheffield MDT on Chronic Thrombo Embolic Pulmonary Hypertension (Chair: Dr D Keily).

September 1999 – September 2004:

Member trans-Sheffield MDT on Lung Cancer (Chair: Dr J Hill).

September 1999 – April 2002:

Member Cancer Steering Group CSUH Trust (Chair: Mrs J Guest).

September 1999 – September 2004:

Member Research Management Committee CSUH Trust (Chair: Mr C Chapple).

September 1999 – September 2004:

Member of Sports Radiology group within Directorate of Sports Medicine (Chair: Mr T Smith)

October 1999 – February 2001:

Chairman Safety Committee of Division of Clinical Sciences (University of Sheffield)

January 2000 – September 2004:

Research Lead, Directorate of Radiology, STH Trust, Central Campus.

May 2000 – September 2002

Member Faculty of Pure Sciences Graduate Research Committee (University of Sheffield)

October 2000 – October 2002:

Lead Clinician, Nuclear Medicine, Directorate of Radiology, CSUH Trust.

September 1999 – September 2004:

Lead Clinician, Positron Emission Tomography, Directorate of Medical Imaging and Medical Physics, STH Trust.

January 2001 – April 2002:

Member Joint Imaging Service Executive, STH Trust, Central Campus.

January 2001 – September 2004:

Appraiser for Consultants in Sheffield Teaching Hospitals NHS Trust (Central Campus).

May 2001 – September 2004:

Member Postgraduate Affairs Committee, Division of Clinical Sciences South (University of Sheffield)

Regional and National committees

1 October 2002:

Organiser “Sports Imaging Update”, Orthopaedic Section, Royal Society of Medicine, London.

14 February 2003

Organiser “Research in Radiology”, British Institute of Radiology, London.

International committees

September 1997 – September 2004

Member Task Force "Pulmonary embolism", European Society of Cardiology (Chair: Prof Dr A Torbicki, Warsaw, Poland).

April 2000 – June 2003

Member steering committee, EC Framework 5 project Computer Optimized Pulmonary delivery in Humans of Inhaled Therapies (COPHIT)

June 2000 – October 2002

Member adjudication committee international, multicentre, randomised trial for treatment of venous thromboembolism (MATISSE study)

June 2000 – October 2003

Member adjudication committee international, multicentre, phase II study of LMWH in treatment for VTE (PERSIST study)

June 2000 – October 2002

Member adjudication committee multicentre management study of suspected pulmonary embolism (ANTELOPE 2)

December 2000 – June 2004

Member steering committee, EC Framework 5 project Polarized Helium Imaging of the Lung (PHIL)

April 2001 – July 2003

Member steering committee (Recorder) working group “Hyperpolarised noble gases” of the International Society of Magnetic Resonance in Medicine.

May 2003 – June 2004

Lead for workpackage 1 (clinical trial) of EC Framework 5 project Polarized Helium Imaging of the Lung (PHIL)

June 2003

Member adjudication committee for the Descartes prize of the European Community, for the category of Life Sciences, Brussels (Belgium).

December 2003 – March 2006

Member sub-committee Cardiac, European Congress of Radiology (Chair: prof I Mastorakou,

Athens, Greece)

Grant Support during period at University of Sheffield, UK

Framework 5 (European Commission) – IST-1999-14004

April 1 1999 – July 1 2003

Computer-Optimised Pulmonary Delivery in Humans of Inhaled Therapies

Total amount awarded: £720,000

Co-Investigator

This project aimed to develop a computer simulation program for airflow, incorporating computational fluid dynamics, pharmacological profiles and image-based validation using CT and MRI. This was successfully achieved, and the program has been incorporated into the CFX family (AEA Technologies).

I was the main Radiologist involved in the project, dealing with validation in particular.

Framework 5 (European Commission) – IST-2000-31559

December 1 2000 – July 1 2004

Polarized Helium Imaging of the Lung

Total amount awarded: £816,450

Co-Principal Investigator (lead for clinical program)

This project was aimed at developing hyperpolarized gas MR imaging, incorporating basic physics sciences, animal experiments and a multicenter clinical trial. The project was successful in demonstrating improved production methods for hyperpolarized 3-Helium, demonstration of feasibility of central production facility and produced the largest clinical trial to date in normal volunteers and patients with acquired and congenital emphysema.

I was the lead Radiologist in charge of the clinical trial.

Yorkshire Cancer Research

September 1 2000 – September 1 2003

FDG dual-headed PET in patients with non-small cell lung cancer

Total amount awarded: £127,920

Co-Principal Investigator

This project aimed to develop this novel technology, using PET-CT (coincidence gamma camera) for the pre-surgical staging of lung cancer. Comparison was made between PET-CT and surgical/mediastinoscopy findings.

I was the Radiologist in charge of this project together with Dr Tindale (Nuclear Physicist).

National Sports Medicine Institute

September 1 2000

³¹P phosphorus spectroscopy for evaluation of athletic muscle metabolism

Total amount awarded: £39,350

Principal Investigator

This was an equipment grant to enable to upgrade the MR system with a multinuclear capability.

Nycomed-Amersham Hyperpolarized 3-Helium grant

June 1 2001 – August 31 2001

Installation of polarizer facility at University of Sheffield

Total amount awarded: £30,000 (matched funding grant)

Principal Investigator

This involved the building of a facility to house a loan polarizer as well as incorporating office space for two post-doc students.

Weston Park Hospital Appeal

September 1 2001 – September 1 2004

PET in patients with high-grade lymphoma

Total amount awarded: £49,378

Co-Investigator

This project intended to evaluate the value of coincidence gamma camera PET-CT for the staging and re-staging of high-grade lymphoma.

The project was unsuccessful due to a lack of recruitment, which was largely due to the difficulties of scheduling patients onto the PET-CT system (FDG was not produced locally).

Prostate Research Campaign UK

October 1 2002 – August 1 2004

3D TRUS vs enhanced MRI in staging clinically confined prostate cancer

Total amount awarded: £21,200

Co-Principal Investigator

This project intended to compare US and MRI (with pathological correlation) in pre-operative staging of prostate cancer. I served as the Radiologist for this project.

Weston Park Hospital Appeal

November 1 2002 – August 1 2004

FDG PET in staging for head-neck cancer prior to radiotherapy

Total amount awarded: £112,068

Co-Principal Investigator

This project evaluated the role of coincidence gamma camera PET-CT in the pre-radiotherapy planning of head-neck cancers.

This project was still ongoing at my departure from Sheffield.

Health Technology Assessment (Department of Health)

December 1 2002 – December 1 2004

Measurement of cost-effectiveness of non-invasive diagnostic strategies for deep vein thrombosis

Total amount awarded: £114,655

Co-Investigator

This project was a literature research of various diagnostic modalities for the diagnosis of deep vein thrombosis. The project was successfully completed, and several publications have been submitted/accepted dealing with ultrasound, CT and MRI.

Department of Health Technology Development Grant – HTD 021

September 1 2003 – September 1 2007

Vertical low-field MR for lung imaging

Total amount awarded: £315,688

Co-Principal Investigator

This project, led to the building of a vertical stand-alone low-field MR system, which can image patients in vertical position. Due to difficulties during the construction process, the system was down-scaled to an ultra-low field strength magnet, and allows for feasibility studies.

Well Child Organization

September 1 2003 – September 1 2004

³-He MRI in children with cystic fibrosis

Total amount awarded: £33,000

Co-Principal Investigator

This project evaluated the feasibility and findings of ³-He MRI in this pediatric population, and was in collaboration with the CF Unit at the Sheffield Children's Hospital (prof CJ Taylor). The project was successfully completed.

Special Trustees of Sheffield Teaching Hospitals NHS Trust

April 1 2004 – April 1 2006

PET in management of paraneoplastic syndrome

Total amount awarded: £37,734

Co-Investigator

This project was based on our observation that we were able to detect occult malignancies in patients with neurological syndromes. I was to serve as the main Radiologist, but left prior to the project start date. The preliminary work was published.

Weston Park Hospital Appeal/Yorkshire Cancer Research (joint funding)

April 1 2004 – April 1 2006

³He MRI for radiotherapy of lung cancer

Total amount awarded: £30,000

Co-Investigator

This project was built on an initial pilot grant, performing ³-He MRI in patient prior to radiotherapy, and developing MR-CT image fusion. Having shown the feasibility, this project will evaluate the potential influence of radiotherapy field planning using combined CT and MR planning scans.

I was the Radiologist on this project, as part of my continued input at Sheffield.

Smaller grants received between 1999-2004

British Council Germany
Principal Investigator
Exchange program Mainz-Sheffield
Amount awarded: £6,240

EPSRC
Principal Investigator
Travel grant
Amount awarded: £6,000

Sheffield Teaching Hospitals small grant award
Co-Principal Investigator
D-dimer in superior sinus thrombosis
Amount awarded: £7,800

Weston Park Hospital Appeal
Co-Principal Investigator
3-He MRI in radiotherapy planning for inoperable lung cancer
Amount awarded: £3,750

Royal College of Radiologists
Co-Principal Investigator
Longitudinal evaluation of lung function following smoking cessation using 3Helium MRI
Amount awarded: £5,000

Committee and Service at University of Iowa (USA)..

Local committees

September 2004 – January 2006

Member subcommittee Resident research/academic retention, Department of Radiology UIHC

September 2004 – January 2007

Member Quality Assurance Committee, Department of Radiology, UIHC (Chair: Dr M Graham)

September 2004 – January 2007

Chair Contrast Agents Committee, Department of Radiology, UIHC

September 2004 – June 2009

Member Holden Cancer Center, UIHC

September 2004 – June 2009

Member Lung cancer tumor board, UIHC.

Lead radiologist lung cancer tumor board since June 2005

September 2004 – November 2008

Member Education Committee, Department of Radiology, UIHC (Chair: Dr B Mullan)

March 2005 – September 2008

Director of Cardiothoracic CT, UIHC.

Director Cardiac CT, UIHC (first with dr D. Jagasia, later with dr A. Abiose, Cardiology)

May 2005 – December 2008

Member Holden Cancer Center Protocol Review and Monitoring Committee, UIHC.

September 2005 – September 2008

Member Executive Committee Holden Cancer Center Image Response Assessment Team

September 2005 – December 2008

Member Interview Committee, Medical School Applicants, Carver College of Medicine.

March 2006

Appointment committee, Director UIHC Heart Center

March-September 2006

Member Program Committee, Iowa Radiological Society meeting, Iowa City, IA.

January 2007 – December 2007

Member Contrast Agents Committee, Department of Radiology, UIHC

July 2007 – December 2007

Member Promotions Committee, Department of Radiology, UIHC

August 2007 – March 2009

Member Executive Committee, Carver College of Medicine, University of Iowa.

November 2007 – November 2008

Member Advisory Committee Human Imaging, Iowa Institute for Biomedical Imaging, University of Iowa

March 2008 – November 2008

Advisor, Iowa Department of Public Health, Indications of Medical Imaging, Des Moines, IA

April 2008 – November 2008

Advisor to Medicaid Program, State of Iowa

Topic: Indications and review of coronary CT angiography.

June 2008 – November 2008

Chair, Task Force on CT utilization, Diagnostic Services Committee, UIHC.

July 2008 – November 2008

Chair, Equipment Committee Large Animal and Human Imaging, Iowa Institute for Biomedical Imaging, University of Iowa.

July 2008 – December 2008

Co-Chair Promotions Committee, Department of Radiology, UIHC

April 2009 - present

Chair Contrast Agents Committee, Department of Radiology, UIHC

April 2009 – present

Director Radiological Services, Iowa Institute of Biomedical Imaging, University of Iowa

April 2009 – present

Co-Chair Clinical Translational Research, Department of Radiology, UIHC

National committees

May 2005 – September 2005

Alpha-1 Organization: working committee for preparation of imaging workshop in assessment and management of alpha-1 antitrypsin deficiency.

October 2005

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

March 2006

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

June 2006

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

November 2006

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

March 2007

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

October 2007

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

February 2008

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

June 2008

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

October 2008

Reviewer Novel Imaging Study Section (ZRG1-SBIB-J-01), National Institutes of Health, USA.

International committees

December 2003 – March 2006

Member sub-committee Cardiac, European Congress of Radiology (Chair: prof I Mastorakou, Athens, Greece)

4 February 2005

Organiser “Functional Lung Imaging”, British Institute of Radiology, London.

February 2005

Referee for IBA Europhysics Prize 2005

May 2005-May 2007

Chair, Hyperpolarized Media MR study group, International Society of Magnetic Resonance in Medicine

September 2005

Reviewer grant round Wellcome Trust, UK.

February 2006

Member Guidelines on Cardiac Imaging group, North American Society of Cardiovascular Imaging jointly with European Society of Cardiovascular Radiology

May 2006-May 2008

Member Study Group and Workshop Review Committee, International Society of Magnetic Resonance in Medicine

May 2006 – May 2007

Member Program Committee joint meeting of European Society of Thoracic Imaging and Fleischner Society, Athens, Greece.

May/June 2007

Reviewer National Health and Medical Research Council (Australia)

January 2007 – October 2008

President, 1st International Summit on the Future of Quantitative Morphological and Functional Lung Imaging, Coralville, IA

May 2007 – May 2008

Member Program Committee of European Society of Thoracic Imaging, Nice, France.

March-May 2008

Reviewer, Cancer Research UK & EPSRC, Cancer Imaging Center and Program grants.

March-May 2008

Reviewer Canadian Institute of Health Research Grants proposals.

May 2008

Member Poster Prize Committee, International Society of Magnetic Resonance in Medicine, Toronto, Canada

Advisory Boards

October 2006 – June 2008

Member Medical Advisory Board, Vital Images Inc., Minnetonka, MN

February 2007 – present

Member Medical Advisory Board, EDDA Technology Inc., Princeton, NJ

August 2007 – present

Founder “**Quantitative Imaging of Iowa (QI²inc)**” (co-founders: Heather Baumhauer, BA and Eric Hoffman, PhD).

This is an imaging services company to support clinical trials involving medical imaging, ranging from consulting on development of trials, protocols for imaging and the qualitative and quantitative assessment of images (both for determination of treatment efficacy and for detection of potential safety concerns).

I serve as the Chief Executive Officer and Chief Medical Officer for this start-up company.

Dissertation committees

February 2005

Dirk-Jan Kuypers (PhD in Medical Sciences); State University Groningen, the Netherlands

February 2008

Sara Alford (Ph.D. in Biomedical Engineering); University of Iowa, MSTP program, qualifying exam.

Full Ph.D. defense completed March 2009.

May 2008

Ahmed Halaweish (Ph.D. in Biomedical Engineering); University of Iowa, BME program, qualifying exam.

July 2008

Kai Ding (Masters in Biomedical Engineering); University of Iowa, BME program.

March 2009

Matt Fuld (Ph.D. in Biomedical Engineering); University of Iowa, BME program, qualifying exam.

***Grant Support during period at the University of Iowa, USA
COMPLETED***

5 U01 CA091085-04 (McLennan) 07/20/2001-06/30/2006 3%
NIH/NCI \$242,810
Lung Image Database with Pathologic Correlates
Co-Investigator

The major goals of this project are the sharing of lung images, especially low dose helical CT scans of adults screened for lung cancer, and related technical and clinical data for development and testing of computer aided cancer screening and diagnosis technology.

I serve as the Iowa Radiologist in this multicenter project, which includes the Universities of Michigan, Chicago, Cornell and UCLA.

5 U01 CA091085-04 (McLennan) 01/01/2006-06/30/2007 15%
NIH/NCI
Imaging Database Resources Initiative (IDRI)

This is an extension to the previous LIDC project, whereby the 5 academic institutions have linked with industrial partners and NCI to produce a database of lung nodules with ground truth. The project aims to provide a database of validated data for software tool developers in the area of nodule detection and segmentation.

5 U01 CA091085-04 (McLennan) 07/01/2007-01/01/2009 10%
NIH/NCI/Private Partnership
Reference Image Database to Evaluate Response to drug therapy in lung cancer
Co-investigator

This so-called RIDER project is a further extension to the LIDC/IDRI projects previously funded, and ran until 01/01/2009.

Bracco Diagnostics – Contract Research (IOP-105)
Total budget awarded depended on enrollment.
Local P.I. (1%)

We enrolled 20 subjects into this study, which was terminated slightly early, which was 5th highest of all centers (total budget awarded was approximately \$75,000).

GE Health Care, contract research (DXV-406)
Total budget depending on enrollment

This project was stopped due to poor recruitment across all sites.
PI Dr Thompson, I served as local co-PI (2%)

P30 CA086862 (Weiner) 11/01/2005-10/31/2008 4%
NIH/NCI \$502,304
Iowa Imaging Response Assessment Team-IRAT supplemental award
Co-Investigator

The major goals of this project is to enhance the quality of clinical research studies by encouraging input from imaging scientists early in the development of clinical trials and to incorporate imaging into clinical trials as a critical branch point to determine optimal therapy for the individual patient

I serve on the Executive Committee of this IRAT Team.

2R44HL075953-02A1 (Tschirren) 08/01/2006-08/01/2008 5%
NIH SBIR grant \$749,892
Tissue and Airway Evaluation for Emphysema Intervention
Co-Investigator

This was a business grant by VIDA Diagnostics, where I offered radiological assessment of new software being developed in conjunction with the department of Radiology.

NIH R44 EB04700-02
NCTX, A Novel Liposomal CT Contrast Agent for Blood Pool Imaging
03/15/2007-09/15/2008 3%

NIH SBIR grant; Marval Therapeutics, Inc.
Substudy: Liposomal contrast agents in large animal studies. Subcontract Uof I \$96,395
Co-investigator

This project aims to upscale the production of liposomal contrast agents for use in larger animals. We previously published the feasibility in small animals (rabbit model) and have now moved onto sheep and pig studies.

Research and Commercialization Fund, University of Iowa
Iowa Imaging-based Multicenter Trials Organization (I-IMTO)
Total funding: \$400,000 for 2 years (November 2006 – extended to June 2009)
Matching industry funding (VIDA Diagnostics): \$400,000 for 2 years
P.I. (no time allocated, as money serves to hire personnel)

The aim of this project was to establish an imaging based clinical trials organization, which will be able to provide protocol design, clinical reading and quantitative assessment of diseases and the changes in response to (novel) therapies. This company, which will initially be established within the Department of Radiology (UI QI²), has been developing novel database applications to facilitate the receipt and work-flow of the imaging aspects for clinical trials. In the mean time, the commercial aspects of this work will be performed through a new spin-off company (QI²inc.), which was established in August 2007.

1 S10 RR024739-01
NIH Shared Instrumentation Grant (Hoffman)
Vertical Low Field Broadband MRI system \$500,000

This project is aimed at developing vertical pulmonary imaging (and also opens the way for loaded joint imaging, for instance). I co-wrote the grant and will be the Director of this system, which will be a joint research system (with a main focus in the chest), and will have collaborative research with Siemens Medical Systems.

This grant is under review due to a change in scanner functionality and space restrictions.

Arthritis Foundation of Maryland (Danoff) 01/01/2008 – 12/31/2009
Evaluation of Subclinical Cardiovascular Disease and Predictors for Events in Rheumatoid Arthritis (ESCAPE RA Trial) \$50,000 (Iowa component \$10,000)
Co-investigator/consultant (no effort)

This projects used 3D AMFM software to test the hypothesis that patients with RA develop IPF subclinically and that this also impacts the presence of coronary artery events. The patient cohort stems from the MESA study.

ACTIVE

R01 HL064368-06A1 (Hoffman) 08/01/2005-07/31/2010 25%
NIH/NHLBI \$1,477,131 per year
Image and Model Based Analysis of Lung Diseases
Co-Investigator

The major goals of this project are: to establish quantitative measures of lung structure and function via use of low dose CT scans; quantitatively evaluate and validate MR-based imaging methods and incorporate into the armamentarium for comprehensive functional and structural evaluation of the lung; determine the role of gas density (Xe vs He vs room air) on regional measures of lung function; continue development and validation of atlases of normal human and sheep lungs; construct and evaluate population-specific atlases (smokers, COPD, experimental emphysema) to detect deviations from normal; and maintain these atlases/models in the public domain through our open source MIFAR project.

I am the only Radiologist within this project, and support CT perfusion experiments, read all CT scans and supervise all MRI experiments.

1 RO1 HL089897-01A1 (Crapo/Silverman) 1/1/2008 – 12/31/2013 4%
1 RO1 HL089856-01A1 (Crapo/Silverman)
NIH \$25,000,000
Genetic Epidemiology of COPD.
Co-investigator/Lead site radiologist

This project aims to create a cohort for genome-wide association analysis of 10,500 subjects to identify the genetic, environmental and pathophysiologic factors that control the development and progression of COPD.

1 RO1 CA129022-01 (McLennan) 2/1/2008 – 1/31/2013 5%
NIH \$2,425,964
Precise correspondence of 3D pathology with radiological features in lung nodules.
Co-investigator

This project aims to assess nodule characteristics using various radiological, histopathological and microscopic techniques. I will provide radiology input, perform CT perfusion studies using central-line bolus contrast for first pass enhancement studies, and assist in data evaluation.

1 RO1 HL091743-01A1 (Flaherty) 11/1/2008 – 10/30/2012 10%
Longitudinal computer assisted analysis in IPF. Iowa component: \$333,303
Co-investigator

This grant builds on prior work performed by the Iowa group in developing software for automated identification and quantification of lung parenchyma patterns (3D AMFM method), and will be applied to a cohort from the University of Michigan IPF database.

1 RO1 HL 093081 (Barr) 10/1/2008 – 9/30/2013
Pulmonary vascular changes in early COPD \$249,354
Co-investigator (4% year 2-4; 3% year 5)

This project forms a sub-study to the Multi Ethnic Study of Atherosclerosis cohort. It is proposed that COPD often coexists in the same patients who are at increased risk for atherosclerosis, with smoking related disease the main culprit. This study will evaluate what changes are seen in the pulmonary

vasculature in this cohort.

RFP NHLBI-HR-08-07 (Hoffman/van Beek)

3/1/2009 – 2/28/2016

SPIROMICS Radiology Center

\$1,622,851

Co-PI (10%)

This project will serve as imaging core for the new COPD network, using multicenter trials in an effort to improve phenotyping, genotyping and treatment aspects of emphysema. The Radiology center will propose and oversee the acquisition of state-of-the-art CT image data sets and will provide imaging analysis using qualitative as well as quantitative analysis tools.

MEMBERSHIP OF LEARNED SOCIETIES

Fellow of the Royal College of Radiologists

Member of the European Society of Radiology

Member of the Radiological Society of North America

Member of the European Society of Thoracic Imaging

Member of the European Society of Cardiovascular Radiology

Member of the International Society for Magnetic Resonance in Medicine

INVITED INVOLVEMENT INTERNATIONAL MEETINGS

March 2003: European Congress of Radiology, Vienna, Austria
Chairman Scientific Session: MR and CT of veins and pulmonary arteries

Reviewer 11th Annual Meeting of the International Society of Magnetic Resonance in Medicine, Toronto, Canada (sections Chest MRI and Hyperpolarized Gases)

July 2003: International Society of Magnetic Resonance in Medicine, Toronto, Canada
Chairman Scientific Session: Imaging Hyperpolarized Gases

October 2003 – onwards: Member subcommittee Cardiac, European Congress of Radiology, Vienna, Austria

Reviewer 12th Annual Meeting of the International Society of Magnetic Resonance in Medicine, Kyoto, Japan (section Chest MRI and Hyperpolarized Gases)

March 2004: European Congress of Radiology, Vienna, Austria
Refresher Course presenter: CT for pulmonary embolism

June 2004: COPD4 meeting, Birmingham, UK
Invited speaker: Radiology - role in pathogenesis, diagnosis and monitoring?: future approaches

August 2004: European Society of Cardiology, Munich, Germany
Invited speaker: MRI and multislice CT for pulmonary embolism – nice pictures or diagnostic breakthrough?

Reviewer 13th Annual Meeting of the International Society of Magnetic Resonance in Medicine, Miami Beach, USA (section MRA)

Reviewer ECR 2005, European Congress of Radiology, Vienna, Austria (section: Cardiac)

February 2005: Functional Lung Imaging, British Institute of Radiology, London, UK.
Organizer of this international meeting with speakers from Germany, UK and USA.
Speaker: Clinical implementation of hyperpolarized 3-He MRI in children with cystic fibrosis.

February 2005: New developments in contrast agents, Society of Physiology, Imaging and Engineering, San Diego, CA.
Invited speaker: Inhaled gases as contrast agents.

March 2005: European Congress of Radiology, Vienna, Austria
Refresher Course presenter: CT for pulmonary embolism

March 2005: Reviewer international conference on Information Processing in Medical Imaging, Glenwood Springs, CO

Reviewer ECR 2006, European Congress of Radiology, Vienna, Austria (section: Cardiac)

October 2005: European Society of Cardiovascular Radiology, Zurich, Switzerland
Invited speaker: Future role of new modalities for diagnosis of pulmonary embolism.

Reviewer 14th Annual Scientific Meeting ISMRM, Seattle, WA.

November 2005: Radiological Society of North America, Chicago.
Moderator poster session Chest: MR perfusion/techniques

February 2006: North Netherlands Heart Days, Curacao, Netherlands Antilles
Invited speaker: Epidemiology and etiology of pulmonary embolism.
Chair session: Pulmonary Embolism.

March 2006: European Congress of Radiology, Vienna, Austria
Refresher Course presenter: Imaging of cardiac and paracardiac neoplasms

June 2006: European Society of Thoracic Imaging, Prague, Czech Republic
Invited speaker: Clinical hyperpolarized 3-Helium MRI of the lung.
Chair session: Cardiac and vascular imaging
Chair session: Proffered scientific papers

September 2006: Functional Lung Imaging at University of Penn, Pennsylvania, PA.
Invited speaker: New tests for pulmonary embolism.

October 2006: 3rd International Workshop on Pulmonary Functional Imaging, Heidelberg, Germany
Invited speaker: Imaging of emphysema using 3He MRI
Chair Session: Pulmonary Embolism

December 2006: Radiological Society of North America, Chicago, IL.
Invited speaker: Assessment of diagnostic tests (Introduction to research course).
Invited speaker: Personnel perspective of academic radiology (Introduction to research course)
Invited speaker: How to teach evidence based radiology in small group (Teaching the facilitators of AUR EBR course)

February 2007: American Academy of Allergy, Asthma and Immunology, San Diego, CA.
Invited speaker: New imaging modalities for asthma.

April 2007: Association of University Radiologists, Denver, CO.
Faculty for Evidence Based Radiology course.

June 2007: European Society of Thoracic Imaging/Fleischner Society, Athens, Greece.
Member Program Committee
Invited Speaker: Functional MR imaging using hyperpolarized 3-Helium.
Invited Speaker: MDCT of coronary arteries
Invited Speaker: Computer Assisted Diagnosis for lung cancer
Moderator Session: Cardiac Imaging/Nuclear Imaging
Moderator Session: Developments in CT and MRI/Functional Imaging

Moderator Session: Ionizing Radiation Issues

October 2007: North American Society for Cardiovascular Imaging, Washington, DC.
Invited Speaker: MDCT of coronary arteries: working across the disciplines.

May 2008: International Society of Magnetic Resonance in Medicine, Toronto, ON.
Categorical Course Speaker: Functional MRI – clinical applications
Topic: MRI of pulmonary vasculature and pulmonary perfusion

May 2008: American Thoracic Society, Toronto, ON.
Invited speaker: Meet the Professor – Assessing lung function using MRI.
Invited speaker: New developments in lung imaging: CT, PET and MRI

May 2008: European Society of Thoracic Imaging, Nice, France
Member Program Committee
Invited speaker: MDCT of coronary arteries – pitfalls and artifacts

October 2008: 1st International Summit on the Future of Quantitative Morphological and Functional Lung Imaging, Coralville, IA
This meeting was attended by over 180 registrants from Asia, Europe, New Zealand and North America.
President of the meeting
Chairman of the Program Committee
Chairman of the plenary session Multimodality Imaging

January 2009: 9th National Irish Cystic Fibrosis Meeting, Killarney, Ireland
Invited speaker: CT imaging in Cystic Fibrosis

VISITING LECTURER/PROFESSORSHIPS

March 1999 – 2005: Visiting Senior Lecturer, University of Amsterdam, NL.
October 2003: Visiting Lecturer, Hammersmith Hospital, Imperial College, London, UK.
October 2003: Visiting Lecturer, University of Iowa, USA.
November 2003: Visiting Lecturer, University of Manchester, UK
December 2003: Visiting Lecturer, University of Iowa, USA.
September 2004 -present: Visiting Professor University of Sheffield, UK.
February 2005: Visiting Lecturer, University of Groningen, NL.
April 2006: Visiting Professor, Universities of Beijing (Freedom Hospital) and Shanghai (Ruijin Hospital), People's Republic of China
March 2007: Guest speaker, Cerro Gordo Medical Society, Mason City, IA
March 2007: Visiting Professor, University of Wisconsin, Madison, WI.
September 2007: Visiting Professor, University of Sheffield, UK.
January 2008: Visiting Professor, Sorbonne University, Paris, France (PHELINET school)
July 2008: Visiting Professor, Universities of Edinburgh and Glasgow, Scotland
May 2009: Siouland Medical Education Foundation, Sioux City, IA

OTHER TEACHING COMMITMENTS

Science Ambassador, South Yorkshire Science Week Programme, 2004

Science and research course for Radiology residents, University of Iowa (bi-annually).

Bi-annual Foundation course Radiology for medical students, University of Iowa.

PET-CT interpretation, Radiology and Nuclear Medicine residents, University of Iowa.

Lecture at West High School, Iowa City: What is my business and why do I like it?

Since arrival in Iowa (September 2004)

Lectures

09/30/04	7 am conference	1 hr	systemic lung diseases
10/11/04	noon conference	1 hr	cystic lung diseases
12/06/04	noon conference	1 hr	emphysema
02/02/05	noon conference	1 hr	cardiac tumors
03/17/05	7 am conference	1 hr	interesting chest cases
04/14/05	noon conference	1 hr	pulmonary hypertension
05/04/05	7 am conference	1 hr	senior residents mock boards
05/14/05	8 am – noon	4 hrs	year 2 mock boards
07/05/05	11:15 am – noon	1 hr	contrast reactions, forms and policy
07/12/05	noon conference	1 hr	chest trauma
07/13/05	noon conference	1 hr	chest emergencies
07/18/05	noon conference	1 hr	contrast, what every radiologist should know
07/29/05	noon conference	1 hr	imaging pulmonary embolism
09/19/05	Brent-Helms review	1 hr	lung neoplasms
10/05/05	Brent-Helms review	1 hr	cardiac anatomy, physiology, modalities
10/11/05	Brent-Helms review	1 hr	cardiac imaging in acquired diseases
10/17/05	Research forum	½ hr	pulmonary research – CT and MRI
10/19/05	noon conference	1 hr	chronic obstructive pulmonary disease
10/27/05	7 am conference	1 hr	interesting chest cases
02/06/06	Grand Rounds	1 hr	cardiac CT – anything new?
02/16/06	7 am conference	1 hr	pulmonary manifestations of systemic diseases
05/06/06	8 am – noon	4 hrs	year 1-2 mock boards
05/18/06	noon conference	1 hr	mock boards
07/06/06	Fellow orientation	½ hr	contrast media policy
07/13/06	noon conference	1 hr	chest trauma
07/14/06	noon conference	1 hr	chest emergencies
07/24/06	noon conference	1 hr	I.V. contrast
07/26/06	noon conference	1 hr	Pulmonary Embolism
09/18/06	Brent-Helms review	1 hr	thoracic cardiovascular diseases
09/20/06	Brent-Helms review	1 hr	COPD and airways diseases
01/17/07	noon conference	1 hr	Systemic diseases and chest imaging findings
04/04/07	noon conference	1 hr	Interesting Chest Cases
04/19/07	7 am conference	1 hr	Chest Cases for Boards
05/04/07	8 am – noon	4 hrs	year 1-2 mock boards
05/17/07	noon conference	1 hr	mock boards
07/03/07	Fellow orientation	½ hr	contrast media use
07/17/07	noon conference	1 hr	chest emergencies
07/23/07	noon conference	1 hr	chest trauma
10/10/07	noon conference	1 hr	CXR and CT of cardiovascular diseases
10/11/07	noon conference	1 hr	Imaging airways diseases
03/03/08	Brent-Helms review	1 hr	Cardiovascular diseases
5/17/08	8 am – noon	4 hrs	Mock Boards
5/23/08	7 am conference	1 hr	mock boards
08/07/08	7 am conference	1 hr	Mediastinal tumors
10/16/08	7 am conference	1 hr	Tuberculosis – crossing the boundaries

10/20/08	noon conference	1 hr	Chest manifestations of organ transplantation
01/22/09	7 am conference	1 hr	Chest manifestation of recreational drugs
01/22/09	noon conference	1 hr	Computer analysis in Chest imaging
04/09/09	7 am ETC conference	1 hr	Pulmonary Embolism diagnosis

Medical students

02/23/05	1 hour medical students	chest radiology
03/09/05	1 hour medical students	chest radiology
03/23/05	1 hour medical students	chest radiology
07/20/05	1 hour medical students	chest radiology
8/31/05	1 hour medical students	chest radiology
10/12/05	1 hour medical students	chest radiology
11/23/05	1 hour medical students	chest radiology
11/14/05	1 hour medical students	cardiac CT imaging
11/23/05	1 hour medical students	chest radiology
04/05/06	1 hour medical students	chest radiology
05/17/06	1 hour medical students	chest radiology
08/23/06	1 hour medical students	chest radiology
10/18/06	1 hour medical students	chest radiology
01/03/07	1 hour medical students	chest radiology
01/17/07	1 hour medical students	chest radiology
01/31/07	1 hour medical students	chest radiology
02/14/07	1 hour medical students	chest radiology
03/14/07	1 hour medical students	chest radiology
07/11/07	1 hour medical students	chest radiology
07/25/07	1 hour medical students	chest radiology
08/08/07	1 hour medical students	chest radiology
08/22/07	1 hour medical students	chest radiology
01/09/08	1 hour medical students	chest radiology
02/07/08	1 hour medical students	chest radiology
04/02/08	1 hour medical students	chest radiology
07/16/08	1 hour medical students	chest radiology
08/27/08	1 hour medical students	chest radiology
10/22/08	1 hour medical students	chest radiology
01/21/09	1 hour medical students	chest radiology

Radiology Technology program students

05/19/05	1 hour RT students	research and radiology
10/11/05	1 hour RT students	systemic diseases and chest findings
01/11/06	1 hour RT students	cardiac CT imaging
05/18/06	1 hour RT students	imaging research
11/15/06	2 hours RT CME meeting	lung cancer update cystic lung diseases
11/17/07	1 hour RT students	cardiothoracic radiology research

Fellows

Arachana Laroia	chest fellowship 2007-2008
Stephen Burke	chest fellowship 2008-2009
Zeynep Yakut	visiting research fellow (Ankara, TR) 2008-2009

Graduate students involvement

Shrikar Reddy	project progress/presentations/ publications (Doris Duke Fellow)
Ye Xu	practical involvement, progress, presentations (BME PhD student)
Xiangwei Zhang	practical involvement, progress, presentations (BME PhD student)
Mark Olzewski	practical involvement, progress, cardiac CT (BME PhD student)
Steve Burke	research development, execution (RSNA Holman pathway)
Feng Qing	research development, execution (Nucl Med fellow)
Sara Alford	MSTP student, pulmonary perfusion using CT
Ahmed Halaweish	BME student, hyperpolarized 3-Helium MRI project
Vlad Tchatalbachev	Doris Duke Fellow 2008-2009

Supervision of other students

Mark Pedersen	pre-med summer internship (Coe College, Cedar Rapids, IA)
Mark Fisher	post high-school summer internship (Iowa State University)
Matthew Sutton	post M1 summer research studentship
Joe Wickard	pre M1 summer research studentship (with EA Hoffman)
Will Schupp	pre M1 summer research studentship (with EA Hoffman)
Andrew Elson	post M1 summer research studentship
Luke Gabe	pre M1 summer research studentship (with EA Hoffman)
Luke Gabe	post M1 summer research studentship (with EA Hoffman)
Josh Jarvis	post M1 summer research studentship

Campus Conversation Partners

I served as a conversation partner to an Iowa University student in the English as a Second Language program for 1 hour/week during the Fall semester 2007.

New courses developed

PET-CT teaching to Nuclear Medicine/Radiology residents (5 hours per week)

This course intends to improve the assessment of dual modality images, using combined PET and CT, for interpretation by both nuclear medicine and radiology residents.

Evidence-based Radiology/Research in Radiology

This course is introducing the clinical epidemiological foundation within the radiology curriculum, as well as expand in areas of need to increase participation in research by residents and improve the basic knowledge required to be able to evaluate the literature. The course has been condensed into 4 one-hour sessions, and the faculty has been expanded with Dr Geetika Khanna and others by invitation. This course will be held annually to the residents to help them prepare for research projects and a possible research career.

Cardiac Imaging mini symposium (3x 1 hour within one week)

This course was intended to introduce the residents/fellows in radiology and cardiology into the world of cardiac imaging, the clinical evidence, the various modalities and their applications. Input was given by radiologists and cardiologists who are all involved in cardiac imaging, ranging from nuclear medicine, MRI to CT based techniques.

Outside lectures (U of Iowa)

04/20/05

SE Clinic (UIHC)

MRI: safety, contrast agents and applications

10/18/05

Holden Comprehensive Cancer Center Forum

CT and MRI in oncologic imaging

01/25/06

Hematology/Oncology Grand Rounds

CT and MRI in oncologic imaging

3/29/06

Radiation-Oncology

Contrast agents: applications and safety issues

5/04/06

BioMedical Engineering

MRI of the lung: from morphology to function

09/28/06

Internal Medicine Grand Rounds

Cardiac CT – a new clinical initiative

12/07/06

Emergency Medicine Grand Rounds

Pulmonary embolism – current and future state-of-the-art

2/28/08

Iowa Institute of Biomedical Imaging

Lung morphology and function using CT and MRI

PUBLICATIONS

Articles

1. **Van Beek EJR, van Buul MMC, Broekhuizen AH.** Diagnostic problems of scaphoid fractures. The value of radionuclide bone scintigraphy. *Neth J Surg* 1990;42:50-52.
2. **Van Beek EJR, Farmer KCR, Millar DM, Brummelkamp WH.** Gallstone disease in women younger than 30 years. *Neth J Surg* 1991;43:60-62.
3. **Tiel-van Buul MMC, Van Beek EJR, Bakker AJ, Broekhuizen AH.** A rare combination of fractures of the upper extremities; a diagnostic problem. *Neth J Surg* 1991;43:189-191.
4. **Tiel-van Buul MMC, van Beek EJR, Broekhuizen AH, Bakker AJ.** Diagnosing scaphoid fractures: radiographic series cannot be used as a gold standard. *Injury* 1992;23: 77-79.
5. **Van Beek EJR, Büller HR, Van Everdingen JJE, Van Royen EA, Ten Cate JW.** Diagnostisch beleid bij een verdenking op longembolieën: resultaten van een enquête onder Nederlandse internisten en longartsen. *Ned Tijdschr Geneesk* 1992;135:319-323.
6. **Lensing AWA, van Beek EJR, Demers C, Tiel-van Buul MMC, Yakemchuk V, van Dongen A, Coates G, Ginsberg JS, Hirsh J, ten Cate JW, Büller HR.** Ventilation-perfusion scanning and the diagnosis of pulmonary embolism: improvement of observer agreement by the use of a lung segment reference chart. *Thromb Haemostas* 1992;68:245-249.
7. **Tiel-van Buul MMC, van Beek EJR, van Dongen A, van Royen EA.** The reliability of the 3-phase bone scan in suspected scaphoid fracture: an intra- and inter-observer variability analysis. *Eur J Nucl Med* 1992;19:848-852.
8. **Tiel-van Buul MMC, van Beek EJR, Dijkstra PF, Bakker AJ, Griffioen FMM, Broekhuizen AH.** Radiography of the carpal scaphoid - experimental evaluation of the "carpal box" and first clinical results. *Invest Radiol* 1992;27:954-959.
9. **Tiel-van Buul MMC, van Beek EJR, Broekhuizen AH, Bakker AJ, Bos KE, van Royen EA.** Radiography and scintigraphy of suspected scaphoid fracture - a long-term study in 160 patients. *J Bone Jt Surg [Br]* 1993;75-B:61-65.
10. **Briët E, van Beek EJR, Oudkerk M.** Consensus diagnostiek longembolie. *Ned Tijdschr Geneesk* 1993;137:255-259.
11. **Tiel-van Buul MMC, van Beek EJR, Dijkstra PF, Bakker AJ, Broekhuizen AH.** Significance of a hot spot on the bone scan in suspected scaphoid fracture - evaluation by computed tomography. *Eur J Nucl Med* 1993;20:159-164.
12. **Van Beek EJR, Tiel-van Buul MMC, Büller HR, van Royen EA, ten Cate JW.** The value of lung scintigraphy in the diagnosis of pulmonary embolism. *Eur J Nucl Med* 1993;20:173-181.
13. **Oudkerk M, Van Beek EJR, Van Putten WLJ, Büller HR.** Cost-effectiveness analysis of various strategies in the diagnostic management of pulmonary embolism. *Arch Intern Med* 1993;153: 947-954.
14. **Tiel-van Buul MMC, van Beek EJR, Borm JJJ, Gubler FM, Broekhuizen AH, van Royen EA.** The value of radiographs and bone scintigraphy in suspected scaphoid fracture - a statistical analysis. *J Hand Surg [Br]* 1993;18:403-406.
15. **Tiel-van Buul MMC, Bos KE, Dijkstra PF, van Beek EJR, Broekhuizen AH.** Carpal instability, the missed diagnosis in patients with clinically suspected scaphoid fracture. *Injury* 1993;24:257-262.
16. **Van Beek EJR, Kuyser PMM, Reekers JA.** Dissection of pulmonary artery as a complication of pulmonary angiography. *Fortschr Röntgenstr* 1993;158:599-600.
17. **Van Beek EJR, Van 't Hullenaar NGM, Reekers JA.** Pseudo-arteriovenous malformation of the lung: a report of two cases. *Eur Radiol* 1993;3:264-265.

18. **Van Beek EJR, van den Ende A, Berckmans RJ, van der Heide YT, Brandjes DPM, Sturk A.** A comparative analysis of D-dimer assays in patients with suspected pulmonary embolism. *Thromb Haemostas* 1993;70:408-413.
19. **Van Beek EJR, Büller HR, Rutten GCFM, Brandjes DPM, ten Cate JW.** Diagnosing pulmonary embolism: an audit of current practice in a teaching hospital. *Neth J Med* 1994;44:50-55.
20. **Van Beek EJR, Tiel-van Buul MMC, Hoefnagel CA, Jagt HHT, van Royen EA.** Reporting of perfusion-ventilation lung scintigraphy with the use of an anatomical lung segment chart - a prospective study. *Nucl Med Commun* 1994;15:746-751.
21. **Van Beek EJR, von der Möhlen MAM, ten Cate JW, Brandjes DPM, Büller HR.** Antithrombin III concentrates in the treatment of DIC: a retrospective follow-up study. *Neth J Med* 1994;45:206-210.
22. **Oudkerk M, van Beek EJR, Wiggers Th.** Percutaneous biliary stenting in obstructive jaundice following liver metastectomy. *Surgery* 1994;116:593-595.
23. **Van Beek EJR, Levi MM, Reekers JA, Hack CE, Büller HR, ten Cate JW.** Increased plasma levels of PAI-1 upon administration of non-ionic contrast media in patients requiring pulmonary angiography for suspected pulmonary embolism. *Radiology* 1994;193: 821-823.
24. **Tiel-van Buul MMC, van Beek EJR, Broekhuizen AH, PMM Bossuyt.** Radiography and scintigraphy of suspected scaphoid fracture - a cost-effectiveness analysis. *J Nucl Med* 1995;36:45-48.
25. **Ginsberg JS, Wells PS, Brill-Edwards P, Donovan D, Panju A, van Beek EJR, Patel A.** Application of a novel and rapid whole blood assay for D-dimer in patients with clinically suspected pulmonary embolism. *Thromb Haemostas* 1995;73:35-38.
26. **Oudkerk M, Sijens PE, van Beek EJR, Kuijpers TJA.** A comparative study of safety and efficacy of DOTAREM (Gd-DOTA) versus MAGNEVIST (Gd-DTPA) in MRI of the central nervous system. *Invest Radiol* 1995;30:75-78.
27. **Van Beek EJR, Kuyser PMM, Schenk BE, Brandjes DPM, ten Cate JW, Büller HR.** A normal perfusion lung scan in patients with clinically suspected pulmonary embolism: frequency and clinical validity. *Chest* 1995;108:170-173.
28. **Smit EMT, van Beek EJR, Bakker AJ, Reekers JA.** A blind, randomized trial evaluating the hemodynamic effects of contrast media during pulmonary angiography for suspected pulmonary embolism - ioxaglate vs iohexol. *Acad Radiol* 1995;2:609-613.
29. **Schipper IB, van Beek EJR, Broekhuizen AH.** Air-bag gerelateerd letsel: een overzicht en patienten casus. *Ned Tijdschr Geneesk* 1995;139:2661-2664.
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Fuld MK, Simon BA, van Beek EJ, Morgan JH, Hoffman EA. Establishing “Normal”: Regional Ventilation via Dynamic Xenon-CT in Humans. (ATS)

Tchatalbachev V, Sieren J, Campos JH, McLennan G, Hoffman EA, van Beek EJR. Assessment of repeatability of CT-based quantitation of the human airway tree in human cadavers. (ATS)

Yakut Z, Gabe L, van Beek EJR, Cook-Granroth J, McLennan G, Hoffman EA. Air trapping assessed by quantitative computed tomography (QCT) in normal non-smoking humans. (ATS)

Laroia AT, Mullan BF, Thompson BH, Stanford W, van Beek EJR. Modern imaging of the trachea and central bronchi. (ARRS)

Article reviews

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Zur konservativen Behandlung des Kahnbeinbruches der Handwurzel door Baumeister HH, Greinemann H in Unfallchirurg 1989;92:175-179. Traumatology Review 1991;1:86.
2. **Van Beek EJR.**
Obesity and the metabolic response in severe trauma in man door Jeevanandam M, Young DH, Schiller WR in J.Clin.Invest 1991;87:262-269. Traumatology Review 1991;1:273.
3. **Van Beek EJR.**
Cyclic antidepressants and the risk of hip fracture door Ray WA, Griffin MR, Malcolm E in Arch.Intern.Med.1991;151:754-756. Traumatology Review 1992;2:65-66.
4. **Van Beek EJR.**
Low molecular weight versus standard heparin for prevention of venous thromboembolism after major abdominal surgery door Kakkar VV, Cohen AT, Edmonson RA, et al. in Lancet 1993;341-:259-265.
Ned Tijdschr Traumatologie 1993;1:26-28.
5. **Van Beek EJR.**
Brief report: fulminating fat embolism syndrome caused by paradoxical embolism through a patent foramen ovale door Pell ACH, Hughes D, Keating J, Christie J, Bustil A, Sutherland GR in N Engl J Med 1993;329:926-929.
Ned Tijdschr Traumatologie 1993;1:87-88.
6. **Van Beek EJR.**
Graduated compression stockings in the prevention of postoperative venous thromboembolism. a meta-analysis door Wells PS, Lensing AWA, Hirsh J in Arch Intern Med 1994;154:67-72.
Ned Tijdschr Traumatologie 1994;2:111-112.
7. **Van Beek EJR.**
A prospective study of venous thromboembolism after major trauma door Geerts WH, Code KI, Jay RM, Chen E, Szalai JP in N Engl J Med 1994;331:1601-1606.
Ned Tijdschr Traumatologie 1995;4:22-24.
8. **Van Beek EJR.**
Frequency and significance of fractures of the upper cervical spine detected by CT in patients with severe neck trauma door Blacksin MF, Lee HJ in AJR 1995;165:1201-1204.
Ned Tijdschr Traumatologie 1996;4:45-46.

PRESENTATIONS

June 1988

The Royal Society of Medicine Orthopaedic Open Day,
Black Notley Hospital, Braintree, Essex, England.

Monk's Hemiarthroplasty - Cemented or Cementless.

June 1989

Dutch Society for Trauma Surgery, Amsterdam, the Netherlands.

The value of bone scintigraphy for the diagnosis of scaphoid fracture of the hand.

May 1990

European Association of Nuclear Medicine Congress, Amsterdam, the Netherlands.

3-Phase bone scintigraphy in the assessment of fracture of the scaphoid.

June 1990

37th Meeting, Society of Nuclear Medicine, Washington, U.S.A.

3-Phase bone scintigraphy in the assessment of fracture of the scaphoid.

November 1990

Radiological Society of North America 76th Scientific Assembly, Chicago, U.S.A.

Diagnosing scaphoid fractures: radiographic series cannot be used as a gold standard.

November 1990

54. Jahrestagung der Deutschen Gesellschaft für Unfallheilkunde, Berlin, Germany.

Diagnostik der Skaphoid fraktur.

January 1991

Dutch Thrombosis en Hemostasis Society, Houthalen, Belgium.

Diagnosis of pulmonary embolism in the Netherlands.

March 1991

Dutch Society of Surgery, Utrecht, the Netherlands.

The diagnosis of scaphoid fractures; how reliable are radiographs and skeletal scintigraphy?

April 1991

Dutch Internal Medicine Days '91, Veldhoven, the Netherlands.

Diagnostic management of suspected pulmonary embolism in the Netherlands: results from a questionnaire.

June 1991

Society of Nuclear Medicine, 38th Annual meeting, Cincinnati, U.S.A.

The interpretation of ventilation-perfusion scans: improvement of observer agreement by the mandatory use of an anatomical lung segment chart.

July 1991

International Society for Thrombosis and Haemostasis, 13th Congress, Amsterdam, the Netherlands.

- 1. Diagnostic management of suspected pulmonary embolism in the Netherlands: results from a questionnaire.**
- 2. The diagnosis of suspected pulmonary embolism: a survey of the decision making process in a teaching hospital.**
- 3. Ventilation-perfusion scanning and the diagnosis of pulmonary embolism: improvement of observer agreement by the use of a lung segment reference chart.**

November 1991

Dutch Society of Nuclear Medicine, Delft, the Netherlands.

Diagnostic management of suspected pulmonary embolism in the Netherlands: results of a questionnaire among internists and pulmonologists.

April 1992

Dutch Society of Nuclear Medicine, Maastricht, the Netherlands.

The meaning of a hotspot on bone scintigraphy in suspected scaphoid fracture - evaluation with CT.

May 1992

Dutch Society of Radiology, Den Haag, the Netherlands.

Diagnosis of scaphoid fracture: the reliability of radiographs.

September 1992

8th AMSTOL symposium, Amsterdam, the Netherlands.

Comparative investigation of D-dimer assays in patients with clinically suspected pulmonary embolism.

October 1992

Dutch Society of Nuclear Medicine, Amsterdam, the Netherlands.

The value of radiographs vs bone scintigraphy in suspected scaphoid fracture: a statistical analysis.

January 1993

Dutch Thrombosis en Hemostasis Society, Houthalen, Belgium.

D-dimer assay in patients with clinically suspected pulmonary embolism: a comparative study.

April 1993

Dutch Society of Clinical Chemistry, Utrecht, the Netherlands.

Comparative study of D-dimer assays in suspected pulmonary embolism.

April 1993

European Society of Clinical Investigation, 27th annual scientific meeting, Heidelberg, Germany.

Laboratory tests as an aid in the diagnosis and treatment of venous thromboembolism.

April 1993

Dutch Internal Medicine Days '93, Veldhoven, the Netherlands.

Comparative analysis of D-dimer assays in patients with clinically suspected pulmonary embolism.

May 1993

Dutch Surgical Days '93, Veldhoven, the Netherlands.

Clinical evaluation of "carpal box" radiographys in scaphoid fractures.

June 1993

4. Jahrestagung der Norddeutschen Gesellschaft für Nuklear-medicin, Hamburg, Germany.

Invited speaker: Wertigkeit der Lungen-Szintigraphie für die Diagnose der Lungenembolie.

June 1993

International Society for Quality Assurance in Health Care, 10th International Conference, Maastricht, the Netherlands.

Cost-effectiveness analysis of various strategies in the diagnostic management of pulmonary embolism.

July 1993

International Society of Thrombosis and Haemostasis, 14th Congress, New York, U.S.A..

- 1. Antithrombin III concentrates in the treatment of DIC: a case-control study.**
- 2. Comparative analysis of D-dimer assays in patients with clinically suspected pulmonary embolism.**

September 1993

Dutch Society of Radiology, Utrecht, the Netherlands.

- 1. Diagnosing pulmonary embolism: role of non-invasive methods.**
- 2. Cost-effectiveness analysis for diagnosing pulmonary embolism and guidelines following the consensus meeting.**

October 1993

European Association for Nuclear Medicine Congress, Lausanne, Switzerland.

Long-term study in 160 patients with carpal injury - role of the bone scan in the diagnosis of scaphoid fracture.

December 1993

Radiological Society of North America 79th Scientific Assembly, Chicago, U.S.A.

Which strategy for the diagnostic management of pulmonary embolism? A cost-effectiveness analysis.

April 1994

Leiden Fibrinolysis Workshop 5, Leiden, the Netherlands.

- 1. A new, fast, quantitative plasma D-dimer latex based assay.**
- 2. The value of plasma D-dimer in the exclusion of suspected pulmonary embolism.**

April 1994

The first Afro-Arab, the seventh Arab and the third Syrian congress of Clinical Laboratory, Damascus, Syria.

A new, fast, quantitative plasma D-dimer latex based assay.

June 1994

Symposium: "Decision analysis in Clinical Chemistry", Amersfoort, the Netherlands.

Invited speaker: Evaluation of D-dimer assays for diagnosis of pulmonary embolism.

June 1994

41st Annual Meeting Society of Nuclear Medicine, Orlando, Florida, U.S.A.

Bone scintigraphy in patients with suspected scaphoid fracture and negative initial radiographs: a cost-effective approach?

August 1994

European Association of Nuclear Medicine Congress, Düsseldorf, Germany.

1. Reporting lung scans: prospective evaluation of the effects of an anatomical lung segment chart.

2. The role of plasma D-dimer in the exclusion of clinically suspected pulmonary embolism.

September 1994

XIIIth International Fibrinogen Workshop, Manchester, England.

Invited speaker 1. The value of plasma D-dimer in the exclusion of suspected pulmonary embolism.

Invited speaker 2. A new, fast, quantitative latex based plasma assay and a semi-quantitative full blood assay for the determination of D-dimer.

September 1994

XIIth International Congress on Fibrinolysis, Leuven, Belgium.

The value of plasma D-dimer in the exclusion of suspected pulmonary embolism.

September 1994

9th AMSTOL symposium, Amsterdam, the Netherlands.

1. Diagnosis of pulmonary emboli.

2. The role of plasma D-dimer assay in the exclusion of clinically suspected pulmonary embolism.

3. A new, fast, quantitative plasma D-dimer latex assay.

September 1994

Les Jours Francaise de Radiologie 1994, Paris, France.

Comparative study of safety and efficacy of DOTAREM (Gd-DOTA) versus MAG-NEVIST (Gd-DTPA) in MRI of the central nervous system.

October 1994

6th World Congress of the World Federation of Nuclear Medicine and Biology, Sydney, Australia.

The role of plasma D-dimer in the exclusion of clinically suspected pulmonary embolism.

January 1995

Dutch Society of Trauma Surgery, Utrecht, the Netherlands.

Air bag related injuries: an overview (and case report).

March 1995

European Congress of Radiology 1995, Vienna, Austria.

- 1. Which strategy for the diagnostic management of pulmonary embolism? A cost-effectiveness analysis.**
- 2. Increased plasma levels of PAI-1 upon administration of non-ionic contrast media in patients requiring pulmonary angiography.**
- 3. Feasibility, safety and clinical utility of angiography in patients with suspected pulmonary embolism and non-diagnostic lung scan findings.**

April 1995

Dutch Internal Medicine Days '95, Veldhoven, the Netherlands.

- 1. The use of a clinical decision rule in patients with a non-high probability ventilation perfusion scan.**
- 2. A normal perfusion lung scan in patients with clinically suspected pulmonary embolism: frequency and clinical validity.**
- 3. Limited value of compression ultrasonography in the detection of thrombosis in patients with suspected pulmonary embolism.**

June 1995

International Society of Thrombosis and Haemostasis, 15th Congress, Jerusalem, Israel.

- 1. Elevated plasma levels of PAI-1 in patients receiving nonionic contrast media for pulmonary angiography.**
- 2. Normalization of the hypercoagulability associated with pulmonary embolism during conventional heparin treatment: effects on fibrinolysis.**
- 3. Feasibility, safety and clinical utility of angiography in patients with suspected pulmonary embolism and non-diagnostic lung scan findings.**
- 4. A fast quantitative plasma D-dimer latex based assay.**
- 5. Limited value of compression ultrasonography in the detection of thrombosis in patients with suspected pulmonary embolism.**
- 6. Plasma D-dimer concentration in the exclusion of pulmonary embolism: a cost-effective approach?**
- 7. The 6 months outcome of patients with clinically suspected pulmonary embolism.**
- 8. The use of a clinical decision rule in patients with a non-high probability ventilation-perfusion scan.**
- 9. A normal perfusion lung scan in patients with clinically suspected pulmonary embolism: frequency and clinical validity.**
- 10. Sensitivity and specificity of a bed-side whole blood latex D-dimer assay (Simpli-Red) in outpatients with deep vein thrombosis.**

September 1995

ROTS symposium, Rotterdam Trombosis Foundation, Rotterdam, the Netherlands.

Invited speaker: D-dimer assay for the exclusion of pulmonary embolism and deep vein thrombosis.

October 1995

Dutch Radiology Course "Thorax", Dutch Society of Radiology, Utrecht, the Netherlands.

- 1. Clinical aspects of pulmonary embolism.**
- 2. Diagnostic management of pulmonary embolism.**

October 1995

Boehringer Mannheim symposium, Lisbon, Portugal.

Invited speaker: New aspects of D-dimer assays: clinical utility in the management of venous thromboembolism.

November 1995

Radiological Society of North America 81st Scientific Assembly, Chicago, USA.

Rapid bed-side whole blood D-dimer assay for the exclusion of deep venous thrombosis in symptomatic outpatients.

December 1995

Dutch Society of Hospital Pharmacists, Utrecht, the Netherlands.

Invited speaker: The influence of contrast agents on blood coagulation.

December 1995

Dutch Society of Radiology, Utrecht, the Netherlands.

Conventional angiography vs DSA in patients with suspected pulmonary embolism and a non-conclusive lung scan.

September 1996

Amsterdam-Hamilton-Padova: Il triangolo della trombosi venosa profonda, Padova, Italy.

Invited speaker: Diagnostic management of pulmonary embolism.

September 1996

Cardiovascular and Interventional Radiological Society of Europe, Madeira, Portugal.

Which strategy for the diagnostic management of pulmonary embolism? A cost-effectiveness analysis.

September 1996

10th AMSTOL symposium, Amsterdam, the Netherlands.

- 1. The clinical course of patients with suspected pulmonary embolism.**
- 2. Limited value of ultrasonography for detection of deep vein thrombosis in patients with clinically suspected pulmonary embolism.**

September 1996

Radiology days, Dutch Society of Radiology, Veldhoven, the Netherlands.

- 1. The clinical course of patients with suspected pulmonary embolism.**
- 2. Balloon dilatation for benign biliary strictures.**
- 3. Arm vein thrombosis: etiology, therapy and consequences.**
- 4. Haemodynamic effects and image quality of ionic and non-ionic contrast media in pulmonary angiography.**

October 1996

14th International Congress on Thrombosis, Montpellier, France

Etiology, diagnosis and treatment of arm vein thrombosis: a retrospective analysis.

December 1996

Radiological Society of North America 82nd Scientific Assembly, Chicago, USA.

- 1. Metallic self-expandible stents for malignant biliary strictures: results and complications in 32 patients.**
- 2. The clinical course of patients with suspected pulmonary embolism.**

December 1996

American Society of Haematology, Orlando, USA.

- 1. Limited value of ultrasonography in the detection of deep vein thrombosis in patients with suspected pulmonary embolism.**
- 2. Low molecular weight heparin is an effective and safe treatment for deep-vein thrombosis and pulmonary embolism.**

March 1997

Gastroenterology days, Veldhoven, the Netherlands.

Memotherm stents for malignant biliary strictures: results in a series of 31 patients.

June 1997

Sandwich course "Clinical epidemiology and decision analysis", Dutch Society of Radiology, Utrecht, the Netherlands.

Invited speaker: Cost-effectiveness in the diagnosis of pulmonary embolism.

June 1997

International Society of Thrombosis and Haemostasis, 16th Congress, Florence, Italy.

- 1. Validation of a clinical decision rule in patients with suspected pulmonary embolism and a non-diagnostic lung scan.**
- 2. The prevalence of a normal D-dimer test in healthy pregnant women.**

June 1997

Dutch Society for Clinical Chemistry, Amersfoort.

Invited speaker: A fast quantitative plasma D-dimer latex based assay.

June 1997

European Society of Gastro-intestinal and Abdominal Radiology, Amsterdam.

- 1. Percutaneous balloon dilatation of benign biliary strictures.**
- 2. Percutaneous Nininol (memotherm) stents for malignant biliary strictures.**

October 1997

International Congress of Head and Neck Radiology, Strasbourg, France.

Normal thickness of the trigeminal ganglion on contrast-enhanced MR imaging.

May 1998

American Society of Neuroradiology, Philadelphia, USA.

Diagnostic yield of MR imaging in trigeminal neuropathy.

May 1998

Annual Meeting European Society of Gastrointestinal and Abdominal Radiology, Marbella, Spain.

Double contrast MRI for preoperative staging of rectal cancer.

September 1998

Radiology days, Dutch Society of Radiology, Veldhoven, the Netherlands.

- 1. Dubbel contrast MRI voor preoperatieve staging van rectumtumoren**
- 2. Anatomische distributie van longembolieën bij pulmonalis angiografie.**
- 3. Armvenetrombose, een prospectieve vergelijkende studie tussen duplex-echografie en flebografie: initiële resultaten.**

May 1999

European Congress of Radiology 1999, Vienna, Austria.

- 1. Prospective comparative study of color duplex ultrasound (DUS) and venography in patients suspected of deep vein thrombosis of the upper extremity (DVTUE).**
- 2. Diagnostic strategies for pulmonary embolism: a cost-effectiveness analysis.**

April 1999

Vascular days 1999, The Hague, the Netherlands.

Hydrolyser thrombectomie bij massieve PE: eerste klinische resultaten.

May 1999

American Society of Neuroradiology, Philadelphia, USA.

Correlation between electromyographic reflex and MR imaging examinations of the trigeminal nerve.

May 1999

European Society of Cardiology, Warsaw, PL.

Invited speaker 1: Lung scintigraphy in the diagnosis of pulmonary embolism.

Invited speaker 2: Pulmonary angiography in the diagnosis of pulmonary embolism.

October 1999

Radiology days, Dutch Society of Radiology, Veldhoven, the Netherlands.

- 1. Fracturen van de bovenste thoracale wervelkolom bij multi-trauma patienten: een diagnostische valkuil.**
- 2. Inter-en intraobserver studie van DSA flebografie bij patienten met een verdenking voor armvenetrombose**

October 1999

British Association of MR Radiographers, 15th meeting, Sheffield, UK.

Invited speaker: Chest MRI: current and future indications.

October 1999

European Society for Skeletal Radiology, Edinburgh, UK.

Upper thoracic spinal fractures in trauma patients – a diagnostic pitfall.

November 1999

Radiological Society of North America 85nd Scientific Assembly, Chicago, USA.

1. **Diagnostic strategies for pulmonary embolism: the Dutch consensus.**
2. **Prospective comparative study of color duplex ultrasound (DUS) and venography in patients suspected of deep vein thrombosis in the upper extremity (DVTUE).**
3. **Anatomic distribution of pulmonary emboli (PE) at pulmonary angiography in a consecutive series of patients with suspected pulmonary embolism.**

March 2000

European Congress of Radiology, Vienna, Austria

1. **Midline cerebellar dysgenesis in pediatric and prenatal MRI: a pictorial review.**
2. **Clinical validity of normal pulmonary angiogram in patients with suspected pulmonary embolism: a meta-analysis.**
3. **Magnetic resonance angiography for the diagnosis of renal artery stenosis: a meta-analysis.**
4. **Diagnosis of pulmonary embolism: a comparative analysis of contrast-enhanced MR angiography with pulmonary angiography.**
5. **Diagnostic strategies for pulmonary embolism: the Dutch consensus.**

April 2000

8th Scientific meeting, International Society for Magnetic Resonance in Medicine, Denver, USA

1. **Magnetic resonance angiography for the diagnosis of renal artery stenosis: a meta-analysis.**
2. **Contrast-enhanced MR angiography for the diagnosis of pulmonary embolism - a comparison with conventional pulmonary angiography.**
3. **Design of a low cost 3 Tesla research system for combined optical and functional MR imaging.**

May 2000

American Roentgen Ray Society, 100th Annual Scientific Meeting, Washington, USA.

1. **A pictorial review of midline cerebellar dysgenesis in pediatric and prenatal MRI.**
2. **A meta-analysis of magnetic resonance angiography for the diagnosis of renal artery stenosis: can it replace catheter angiography?**
3. **Clinical validity of normal pulmonary angiogram in patients with suspected pulmonary embolism – results of a meta-analysis.**

May 2000

Imaging Oncology Science, Birmingham, UK.

1. **A comparative analysis of Gd-enhanced MRA with pulmonary angiography for diagnosis of pulmonary embolism.**
2. **Clinical validity of normal angiography in suspected pulmonary embolism: a meta-analysis.**
3. **Diagnosing renal artery stenosis by use of Magnetic Resonance Imaging – a meta-analysis.**
4. **Radiographer performed intravenous cannulation for pump injected contrast-enhanced computed tomography.**

5. **Diagnostic management of suspected colon obstruction: spiral CT vs water soluble enema.**
6. **Herniography: a prospective, randomised study between mid-line and left iliac fossa puncture techniques.**
7. **Development of a combined functional MRI and optical imaging system**

May 2000

Dutch Surgery Days, Veldhoven, the Netherlands.

The relation between diagnosis and treatment of scaphoid fracture.

September 2000

Cardiovascular Interventional Radiological Society Europe, Maastricht, the Netherlands.

1. **Invited speaker: Cost-effective strategies and management of pulmonary embolism.**
2. **Diagnosis of pulmonary embolism: a comparative analysis of contrast enhanced MR angiography with pulmonary angiography.**

September 2000

Yorkshire Cancer Research scientific meeting, Leeds, UK.

Can dual-headed gamma camera PET improve the pre-operative staging of non-small cell lung cancer?

September 2000

Radiology days, Dutch Society of Radiology, Veldhoven, the Netherlands.

MRA for the diagnosis of renal artery stenosis: a critical review.

October 2000

European Physics Summer School, Les Houches, France.

Invited speaker 1: Cardiac physiology and imaging

Invited speaker 2: Diagnostic techniques of lung physiology: MIGET.

Invited speaker 3: Diagnostic techniques in chest imaging, including nuclear medicine.

October 2000

3rd Virchow Symposium, Humboldt University, Berlin, Germany.

Invited speaker: Diagnostic management strategies for suspected pulmonary embolism.

December 2000

Radiological Society of North America, 86th Annual Scientific Meeting, Chicago, USA.

Anatomic distribution of pulmonary emboli at pulmonary angiography in a consecutive series of patients with suspected pulmonary embolism.

December 2000

American Society of Haematology, San Francisco, USA.

Osteoprotegerin (OPG) inhibits the development of osteolytic bone disease in the 5T2MM model of multiple myeloma.

March 2001

European Congress of Radiology, Vienna, Austria

- 1. Plasma D-Dimer in the Exclusion of Segmental and Subsegmental Pulmonary Embolism.**
- 2. Diagnostic management of suspected colon obstruction: spiral CT vs water soluble enema.**
- 3. Radiological imaging as the basis for a simulation software to advance individualised inhalation therapies.**

May 2001

National Sports Medicine Institute of the United Kingdom, Diploma Preparation Course, Sheffield.

Invited speaker: Sports imaging: too much to choose from?

May 2001

Czech Angiology days 2001, Prague, Czech Republic.

Should a normal rapid ELISA D-dimer assay rule out angiographic pulmonary embolism or rule in a favourable outcome in untreated outpatients with suspected pulmonary embolism?

May 2001

UK Radiological Congress, London.

Radiological imaging as the basis for a simulation software to advance individualised inhalation therapies.

May 2001

German Radiological Society, Wiesbaden, Germany

Radiologische Bilddaten als Basis zur Simulation individueller inhalativer Therapien

June 2001

3rd Postgraduate Course Sports Medicine, ESSR, Amsterdam

Invited speaker: Functional MR imaging in Sports Medicine – getting better with more to come.

June 2001

2nd Mainzer fMRI symposium, Mainz, Germany

Invited speaker 1: Radiological imaging as the basis for a simulation software to advance individualized Inhalation therapies.

Invited speaker 2: Phase encoding strategies in 3Helium MR imaging of the lung.

Invited speaker 3: Implementation of hyperpolarized gas imaging on a Marconi MR system.

August 2001

European Society of Paediatric Research, Helsinki, Finland

The effect of perinatal hypoxic exposure in fawn hooded and wistar rats.

September 2001

7th Annual meeting British Chapter ISMRM, Cambridge, UK

k-Space filtering effects in 2D gradient echo hyperpolarized ³He MRI.

September 2001

European Respiratory Society, Berlin, Germany

The effect of perinatal hypoxic exposure in fawn hooded and wistar rats.

September 2001

British Nuclear Medicine Society, Belfast, UK

- 1. Initial experiences with a combined gamma camera/CT imaging system for functional anatomic mapping in PET and SPECT.**
- 2. Initial experiences with gamma camera PET and functional anatomic mapping in lung cancer.**

October 2001

Deutschen Gesellschaft für Pneumologie, Berlin, Germany

Radiologische Bilddaten als Basis zur Simulation individueller Therapien

October 2001

National Sports Medicine Institute of the United Kingdom, Diploma Preparation Course, Sheffield.

Invited speaker: Sports imaging: when to use which modality?

October 2001

A Career in Radiology, National Symposium, Sheffield, UK.

Invited speaker: Academic Radiology: a challenge to have fun.

November, 2001

Radiological Society of North America, 87th Annual Scientific Meeting, Chicago, USA.

Quantitative latex and ELISA plasma D-dimer assays in the exclusion of segmental and subsegmental pulmonary embolism

March 2002

European Congress of Radiology, Vienna, Austria

- 1. Gamma camera PET and functional anatomic mapping in lung cancer – initial experience.**
- 2. Segmentation of the tracheo-bronchial tree on radiological images leading to an individualized simulation of drug delivery and uptake.**
- 3. ³-He MRI for diagnosis of obstructive lung disease: the European approach (“PHIL”).**
- 4. MRA vs DSA for diagnosis of pulmonary embolism**

April 2002

British Nuclear Medicine Society, Manchester, UK

- 1. Gamma camera PET with functional anatomic mapping identifies surgical candidates in non-small cell lung cancer (NSCLC)?**
- 2. Improving the accuracy for locating lesions in PET and SPECT with a combined gamma camera/CT imaging system**

April 2002

21st Joint meeting British Endocrine Societies, Harrogate, UK

Testosterone and skeletal muscle parameters in men with chronic heart failure.

May 2002

10th Annual meeting European Society of Thoracic Imaging, Brugge, Belgium.

Segmentation of the tracheo-bronchial tree on radiological images leading to an individualized simulation of drug delivery and uptake.

May 2002

National Sports Medicine Institute of the United Kingdom, Diploma Preparation Course, Sheffield.

Invited speaker: Sports imaging: too much to choose from?

May 2002

International Society of Magnetic Resonance in Medicine, Honolulu, USA.

- 1. Compensation of susceptibility artifacts in gradient echo 3He MRI.**
- 2. k-Space Filtering In 2D Gradient Echo Breath-Hold Hyper-Polarised 3He MRI: Spatial Resolution And Signal To Noise Considerations.**
- 3. In-vivo proton MRI of the rat lung at 1.5T using inhaled microparticles of spray dried contrast agent.**
- 4. Invited speaker: Validation of a lung model using 3Helium MRI in humans.**

June 2002

UK Radiological Congress, Birmingham, UK.

- 1. A combined gamma camera/CT imaging system for functional anatomic mapping in PET and SPECT – initial experience.**
- 2. Gamma camera PET and functional anatomic mapping in lung cancer – initial experience.**
- 3. Out-patient ventilation perfusion lung scans: how useful are they?**
- 4. Invited speaker: MRI of the chest.**

September 2002

British Chapter ISMRM meeting, Sheffield, UK.

- 1. B1AC-MAMBA: Combined B0 and B1 coil parallel imaging**
- 2. Validation of a lung model using hyperpolarized 3-Helium MRI in humans.**
- 3. Simulating MR of 3-He diffusion in the lungs using the finite difference method.**
- 4. Ultrafast dynamic MRI of inhaled 3He gas using a short echo time radial projection sequence with sliding window reconstruction.**
- 5. Measurement of a reduction in the effective lung volume of a smoker as measured by combined proton single shot fast spin echo hyperpolarized Helium 3 MRI.**
- 6. Chronic obstructive pulmonary disease (COPD): Analysis with magnetic resonance imaging.**

September 2002

European Association of Nuclear Medicine, Vienna, Austria.

- 1. Improving the accuracy for locating lesions in PET and SPECT with a combined**

gamma-camera/CT imaging system.

- 2. Can Gamma Camera PET with Functional Anatomic Mapping Identify Patients with Non-Small Cell Lung Cancer who are Suitable for Surgery?**

September 2002

Helion 02 International Conference on use of Hyperpolarised Noble Gases, Oppenheim, Germany

- 1. Assessment and compensation of macroscopic field inhomogeneity artifacts in gradient echo ³He MRI. Helion02**
- 2. Ultrafast dynamic MRI of inhaled ³He gas using a short echo time radial projection sequence with sliding window reconstruction.**
- 3. Validation of a lung model using hyperpolarized ³-Helium MRI in humans.**

September 2002

3rd Mainzer fMRI symposium, Mainz, Germany

Invited speaker: PHIL in context: other imaging modalities and COPHIT.

September 2002

National Sports Medicine Institute of the United Kingdom, Diploma Preparation Course, Sheffield.

Invited speaker: Sports imaging: when to request which test?

October 2002

Sports Imaging Update, Royal Society of Medicine, London.

Chair of the evening

Sports imaging – can it get any better?

October 2002

European Society of Cardiovascular Radiology, Lucern, Switzerland

Invited speaker: Helium MRI

October 2002

14th Annual meeting of the International MR Angio Club, Essen, Germany

Invited speaker: MRA in pulmonary vascular disorders

November 2002

CCCR Respiratory Seminar, University of Cambridge.

Invited speaker: Functional MRI of the lung using hyperpolarized helium-3

November 2002

Volumetric analysis of MR images, IPeM, London.

Measurement of a reduction in ventilated lung volume due to sarcoidosis as measured by combined Rf-spoiled gradient echo / Hyperpolarized Helium-3 MRI.

December 2002

American Society of Hematology, USA.

Fondaparinux (Arixtra) in comparison to (Low Molecular Weight) Heparin for the initial treatment of symptomatic deep venous thrombosis or pulmonary embolism – The Matisse clinical outcome studies.

December 2002

Radiological Society of North America, 88th Annual Scientific Meeting, Chicago, USA.

- 1. Validation of a lung model using hyperpolarized 3-Helium MRI in humans.**
- 2. Hyperpolarized Helium-3 imaging: long-distance air transport of hyperpolarized gas from Germany to England is feasible.**
- 3. Segmentation of the tracheo-bronchial tree on radiological images leading to an individualized simulation of drug delivery and uptake.**

December 2002

British Thoracic Society, London.

Elevated pulmonary aortic ratio in patients with pulmonary arterial hypertension associated with systemic sclerosis.

March 2003

European Congress of Radiology, Vienna, Austria.

- 1. Elevated pulmonary aortic ratio in patients with pulmonary arterial hypertension associated with systemic sclerosis.**
- 2. A reduction in the effective lung volume of smokers measured by combined SSFSE / helium-3 ventilation MRI.**
- 3. Hyperpolarized 3He MRI of normal and abnormal ventilation using a dynamic radial projection sequence.**
- 4. Hyperpolarized 3He MR imaging of the lung – improving availability through a central production facility and transports by air.**

April 2003

British Association of Sports and Exercise Sciences, Leeds.

The effect of dehydration on ventricular and whole-brain volume in collegiate men rugby players.

April 2003

Association of British Neurologists, Cardiff.

Clinical utility of 18F fluoro 2-deoxyglucose (FDG) PET scanning in undiagnosed progressive neurological disorders

May 2003

British Nuclear Medicine Society, Manchester.

Gamma-camera PET identifies occult malignancy in patients with suspected neurologic paraneoplastic syndrome.

May 2003

Dutch Internal Medicine Days, Maastricht, the Netherlands.

Invited speaker: MR for diagnosis of venous thromboembolism

June 2003

UK Radiological Congress, Birmingham.

1. **Ultrafast dynamic MRI of inhaled ^3He gas using a short echo time radial projection sequence with sliding window reconstruction.**
2. **Hyperpolarized Helium-3 imaging: long-distance air transport of hyperpolarized gas from Germany to England is feasible.**
3. **Elevated pulmonary aortic ratio in patients with pulmonary arterial hypertension associated with systemic sclerosis.**
5. **Is there a role for D-dimer on suspected acute Intracranial venous thrombosis?**
6. **Invited review: SPECT/GC-PET/CT – technology and applications**

July 2003

International Society of Magnetic Resonance in Medicine, Toronto, Canada.

1. **Time Resolved 2D MRA of Arterio-venous Malformations with a Radial Projection Sliding Window Sequence.**
2. **Finite Difference Simulations of Helium-3 Diffusion in the Lungs.**
3. **Strip-MAMBA: Combined Step Field and Gradient 2D Planar Encoding.**
4. **Anterior to posterior variations of the ADC of inhaled ^3He in healthy lungs.**
5. **Reduction of ventilated lung volumes in smokers vs non-smokers as measured by Single Shot Fast Spin Echo ^1H MRI and Hyperpolarized ^3He MRI.**
6. **B1AC-MAMBA : Combined B_0 and B_1 array coil parallel imaging.**
7. **Dynamic Radial Projection MRI of Inhaled ^3He Gas in Human Lungs.**

July 2003

International Society of Thrombosis and Haemostasis, Birmingham, UK.

Long-term follow-up of patients with suspected deep vein thrombosis of the upper extremities: survival, risk factors and post-thrombotic syndrome.

September 2003

British Chapter ISMRM, London

Direct detection of rapidly fluctuating magnetic fields using fast MR spectroscopy and 2D localized strip-MAMBA.

September 2003

British Association of Sports and Exercise Medicine, Sheffield.

1. **The effect of dehydration on ventricular- and whole-brain volume in collegiate men rugby players.**
2. **The effects of creatine supplementation on the brain monitored by proton magnetic resonance spectroscopy.**
3. **Invited lecture/symposium debate: Knee injuries in soccer – the appropriate use of radiological and surgical interventions.**

September 2003

European Respiratory Society, Vienna, Austria

1. **Complete inhalation modelling: Human validation of an inhaled drug simulation tool.**
2. **Assessment of chest wall and diaphragm motion by dynamic MRI scanning during FVC, cough and sniff manoeuvres.**
3. **Oxygen saturations during lung imaging with hyperpolarized helium (^3He) in normal subjects, smokers and mild to moderate COPD.**
3. **Identification of patients with systemic sclerosis at high risk of pulmonary**

arterial hypertension using CT scanning techniques.

September 2003

15th Annual MRA Club, Dublin, 2003

Invited speaker: Polarized Helium imaging of the lung: adjunct to MRA of the pulmonary arteries.

October 2003

Visiting Lecturer, University of Iowa, USA

MRI of the chest: novel developments

October 2003

Visiting Lecturer, Hammersmith Hospital, Imperial College London, London, UK

Chest Imaging: what has MRI to offer?

November 2003

Manchester Medical Society, Manchester, UK

Pulmonary MRI: novel developments

November 2003

British Thoracic Society, winter meeting, London, UK

- 1. FDG dual headed PET, a blind study to assess patients suitable for surgery.**
- 2. Real-time imaging of airtrapping in COPD using hyperpolarized 3-Helium MR imaging.**

December 2003

Visiting Lecturer, University of Iowa, USA

Lung cancer – the role of radiology

March 2004

European Congress of Radiology, Vienna, Austria.

- 1. CT of thromboembolic disease. [refresher course]**
- 2. Emphysematous changes and normal variations in smokers and COPD patients using diffusion ³He MRI.**
- 3. Establishment of PHIL, a European Multicenter Trial to investigate ³He-MRI in COPD and Emphysema (work in progress).**

April 30 – May 1st 2004

PHIL meeting, Copenhagen, Denmark

Introduction to workpackage 1

May 2004

International Society of Magnetic Resonance Imaging, Kyoto, Japan

- 1. Simulating Helium-3 diffusion in the lung: comparing the “cylinder model” with 3D simulated alveolar ducts.**
- 2. Comparison of 3D and 2D gradient echo for human lung ventilation with hyperpolarized 3He.**
- 3. Emphysematous changes and normal variation in smokers and COPD patients using diffusion ³He MRI.**

4. **Assessment of cystic fibrosis in children using hyperpolarized 3-Helium MRI: comparison with Shwachman score, Chrispin-Norman score and spirometry.**
5. **Rapid angular measurements using MAMBA. ³He-MRI in a European Multicenter Trial in COPD and Emphysema “PHIL” (work in progress).**

June 2004

UK Radiological Congress, Manchester, UK

1. **Emphysematous changes and normal variations in smokers and COPD patients using diffusion ³He MRI.**
2. **Hyperpolarized ³Helium MRI in adults with cystic fibrosis: comparison with HRCT (Bhalla score) and body plethysmography.**
3. **A fiducial system for hyperpolarized ³He/¹H MRI image registration.**

June 2004

Chronic Obstructive Pulmonary Diseases 4, Birmingham, UK

Invited speaker: Radiology - role in pathogenesis, diagnosis and monitoring of COPD – future approaches.

August 2004

European Society of Cardiology, Munich, Germany

Invited speaker: Magnetic resonance imaging and multislice computed tomography – nice pictures or diagnostic breakthrough?

August 2004

European Respiratory Society, Glasgow, UK

1. **A screening protocol for pulmonary hypertension in systemic sclerosis identifies patients with pulmonary hypertension on exercise.**
2. **Development and validation of high performance computing simulation of respiratory tract of inhaled drug and pharmacokinetics**

September 2004

International Congress of Radiology, Montreal, CAN

³Helium magnetic resonance ventilation imaging of the lung: correlation with spirometry compared to high resolution computed tomography in cystic fibrosis.

September 2004

Institute of Physics and Engineering in Medicine 2004, York, UK

Feasibility of hyperpolarized helium MRI and CT image registration for NSCLC radiotherapy treatment planning.

September 2004

European Society of Magnetic Resonance in Medicine and Biology, Copenhagen, DK

Chronic Obstructive Pulmonary Disease: comparison of hyperpolarized 3-Helium MRI, High Resolution CT and 81m-Krypton scintigraphy (PHIL project).

September 2004

British Chapter ISMRM, Edinburgh, UK

1. **Quantitative analysis of regional airways obstruction using dynamic hyperpolarized 3He MRI – preliminary results in children with cystic fibrosis.**

2. **Development of a new contrast agent for blood pool imaging and targeted contrast delivery using rHA and Gd-DTPA. British Chapter ISMRM, Edinburgh, UK**
3. **SPIRIT: Simultaneous, Parallel Inclined Readout Image Technique.**
4. **Volume Localized Measurement of Oxygen Partial Pressure (pO₂) in the Human Lung with 3D Hyperpolarized ³He MRI.**

September 2004

Experimentelle Radiologie, Kiel, Germany

Diffusionsgewichtete ³He-MRT bei Probanden und Patienten mit Lungenemphysem, vorläufige Ergebnisse.

November 2004

British Thoracic Society, London, UK

1. **Evaluation for pulmonary hypertension using pulmonary artery-aortic ratio on Single Shot Fast Spin Echo MRI scans.**
2. **³He lung scanning identifies different phenotypes of severe asthma.**

December 2004

Radiological Society of North America, 90th Annual Scientific Meeting, Chicago, USA

1. **Comparison of Hyperpolarised 3-He MRI and HRCT in Normal Volunteers, Patients with COPD and Patients with alpha-1-antitrypsin Deficiency: PHIL Trial**
2. **Cystic Fibrosis in Children: Comparison of HP 3-He MRI with Chest Radiographs and Spirometry**
3. **Hyperpolarized 3Helium magnetic resonance ventilation imaging in patients with cystic fibrosis: correlation with high resolution CT and spirometry.**

December 2004

Faculty of A&E Medicine, London, UK.

Systematic review and meta-analysis of ultrasound in the diagnosis of deep vein thrombosis

January 2005

MRI 2005 Garmisch, Garmisch Partenkirchen, Germany.

Diffusion-weighted He-3 MRI for the Diagnosis of COPD: Preliminary Results of a European Multi-Centre Trial.

February 2005

British Institute of Radiology, Functional Lung Imaging, London, UK.

Organizer and speaker: Clinical applications of hyperpolarized 3-He MRI.

February 2005

Society of Physiology, Imaging and Engineering, San Diego, CA.

Invited speaker: Inhaled contrast agents

March 2005

European Congress of Radiology, Vienna, Austria.

1. **CT of thromboembolic disease. [refresher course]**
2. **Diffusion weighted ^3He MRI in the assessment of pulmonary emphysema.**
3. **Quantitative analysis of regional airways obstruction using dynamic hyperpolarized ^3He MRI - Preliminary results in children with cystic fibrosis.**

May 2005

1st World Congress of Thoracic Imaging, Florence, Italy

1. **Emphysema-like lung parenchyma in high risk smokers: quantitation of low-dose multidetector-row computed tomography (MDCT).**
2. **Assessment of children with CF, comparing hyperpolarized ^3He MRI with Shwachman score, Crispin-Norman score and spirometry.**
3. **PHIL trial – comparison of ^3He MRI and HRCT in normal volunteers, acquired and genetic COPD.**
4. **Dynamic hyperpolarized ^3He MRI for quantified regional spirometric assessment - Preliminary results in children with cystic fibrosis.**
5. **Lymphatic drainage to the mediastinum from each pulmonary lobe – CT analysis by primary complex of histoplasmosis.**
6. **Chemical-shift MR imaging of the thymus: influences of age and gender**

May 2005

International Society of Magnetic Resonance in Medicine, Miami Beach, FL.

1. **Reproducibility of lung volume measurements in hyperpolarized ^3He MRI of children with Cystic Fibrosis.**
2. **Systematic Segmental Analysis of Ventilated Lung Volumes in Severe Asthma using ^3He MRI Pre and Post Bronchodilator Therapy: Comparison with Spirometric Indices and HRCT.**
3. **The effects of creatine supplementation on brain parenchyma using Proton Magnetic Resonance Spectroscopy: a blinded, placebo-controlled study.**
4. **Volume Localized Measurement of Oxygen Partial Pressure (pO_2) in the Human Lung with 3D Hyperpolarized ^3He MRI.**
5. **Principal Component Analysis of the ^3He ADC.**
6. **Measuring the ^3He Long Range ADC using a Slice Washout Method.**
7. **Quantitative analysis of regional airways obstruction using dynamic hyperpolarized ^3He MRI - Preliminary results in children with cystic fibrosis.**
8. **Diffusion weighted ^3He MRI in the assessment of pulmonary emphysema**

June 2005

UK Radiological Congress, Manchester, UK.

1. **Segmental analysis of ventilated lung volumes in severe asthma using ^3He MRI.**
2. **Elevated pulmonary artery to aortic ratio measured using MRI identifies patients with pulmonary hypertension.**

July 3-6, 2005

11th World Conference on Lung Cancer, Barcelona, Spain.

Feasibility of hyperpolarised 3-helium MRI and CT image registration for NSCLC radiotherapy treatment planning.

September 2005

British Chapter ISMRM, Oxford, UK.

- 1. Hyperpolarised He MRI in the management of patients with non small cell lung cancer.**
- 2. MRI bronchography with dynamic radial 3He MRI.**
- 3. Single span 3D pO₂ mapping with hyperpolarized 3-He MRI.**

September 2005

European Society for Magnetic Resonance in Medicine and Biology, Basle, Switzerland.

Spirometric indices using dynamic MRI: preliminary analysis.

September 2005

European Respiratory Society, Copenhagen, Denmark.

- 1. Lung cavitation in chronic thromboembolic pulmonary hypertension.**
- 2. Elevated pulmonary artery to aortic ratio measured with MRI identifies patients with pulmonary hypertension**

October 2005

European Society for Cardiovascular Radiology, Zurich, Switzerland.

Invited Speaker: The future role of diagnostic modalities in PE detection.

November/December 2005

Radiological Society of North America, 91st Annual Scientific Meeting, Chicago, USA.

- 1. Reproducibility Of Lung Volume Measurements in Hyperpolarized 3-Helium MRI of Children with Cystic Fibrosis.**
- 2. Dynamic Hyperpolarized 3He MRI - Preliminary Results in Children with Cystic Fibrosis.**
- 3. Creating Public Imaging Databases: The Lung Image Database Consortium (LIDC) and Reference Imaging Database to Evaluate Response to Therapy (RIDER) Projects.**
- 4. Lobar pulmonary mediastinal lymphatic drainage based on CT observations of histoplasmosis- implications for management of non-small cell lung cancer.**
- 5. Quantitative Evaluation of Emphysema: is Coronary Calcium Screening CT a surrogate for a Full Lung Study**
- 6. Computer-aided diagnosis of interstitial lung disease patterns using volumetric textures features.**
- 7. Feasibility of hyperpolarised 3-helium MRI and CT image registration for NSCLC radiotherapy treatment planning.**
- 8. The Lung Image Database Consortium (LIDC): An Evaluation of Radiologist Variability in the Identification of Lung Nodules in CT Scans**
- 9. A Public/Private Sector Paradigm for Accelerating Creation of Large Scale Database for Computer Aided Diagnosis Development**

December 2005

British Institute of Radiology – MRI for radiotherapy treatment planning, London, UK.

Hyperpolarised 3He-MRI in the management of patients with non-small cell lung cancer

February 2006

Society of Physiology, Imaging and Engineering, San Diego, CA.

Effect of mixing scanner types and reconstruction kernels on the characterization of lung parenchymal pathologies: emphysema, interstitial pulmonary fibrosis and normal non-smokers.

February 2006

North Netherlands Heart Days, Curacao, Netherlands Antilles

Invited speaker: Epidemiology and prevalence of pulmonary embolism.

March 2006

European Congress of Radiology, Vienna, Austria

- 1. CT and MR imaging of neoplastic diseases of the heart and pericardium (refresher course)**
- 2. Pitfalls in non-invasive assessment of pulmonary vascular disease – a pictorial essay.**

May 2006

14th Annual Scientific Meeting of the International Society of Magnetic Resonance in Medicine, Seattle, WA, USA.

- 1. Single scan 3D pO₂ mapping with hyperpolarized 3He MRI.**
- 2. The role of hyperpolarized 3-helium MRI in NSCLC.**
- 3. Contrast agent for blood pool imaging and targeted contrast delivery using RHA and Gd-DTPA.**
- 4. Rapid lung volumetry with ultrafast dynamic MRI during forced vital capacity (FVC) – correlation with spirometry.**
- 5. Intra-individual comparison of 0.5 & 1.0M contrast agents in the evaluation of chronic thromboembolic pulmonary hypertension.**
- 6. Comparison of hyperpolarized 3-He administration methods in healthy and diseased subjects.**

June 2006

European Society of Thoracic Imaging, Prague, Czech Republic.

Invited speaker: Clinical hyperpolarized 3-Helium MRI.

September 2006

Iowa Radiological Society, Iowa City, IA, USA

Invited speaker: Pulmonary artery CTA

September 2006

2006 International Functional Lung Imaging Workshop at Penn, Philadelphia, PA, USA

Invited speaker: Present and future diagnostic tests for pulmonary embolism

September 2006

American Society Reproductive Medicine, New Orleans, LA, USA.

Multislice cardiac CT detects early coronary artery disease in young women with polycystic ovary syndrome.

October 2006

3rd International Workshop on Pulmonary Functional Imaging, Heidelberg, Germany.

1. **Invited speaker: Imaging of emphysema using 3-Helium MRI**
2. **Hyperpolarized Helium-3 regional volumetry pre and post physiotherapy in cystic fibrosis – preliminary results.**
3. **Intra-individual comparison of 0.5 & 1.0M contrast agents in the evaluation of chronic thromboembolic pulmonary hypertension.**
4. **Rapid lung volumetry with ultrafast dynamic MRI during forced vital capacity manoeuvre – correlations with spirometry.**
5. **Optimisation of lung cancer radiotherapy treatment with hyperpolarized helium-3 MRI.**
6. **Comparison of hyperpolarized 3-He administration methods in healthy and diseased subjects.**
7. **Changes in dynamic lung ventilation in asthmatics in response to bronchodilator treatment demonstrated with radial projection 3He MRI.**

October 2006

North American Society for Cardiovascular Imaging, Las Vegas, NV, USA

Computed tomography evaluation of left ventricular ejection fraction in patients without structural heart disease: comparison with echocardiography and nuclear imaging.

October 2006

Missouri Valley Chapter, Society of Nuclear Medicine, Iowa City, IA, USA

Invited speaker: Coronary CT angiography – what is new?

November/December 2006

Radiological Society of North America, 92nd Annual Scientific Meeting, Chicago, IL, USA

1. **CT-based blood flow measurements in lung parenchyma of normal controls, normal smokers and smokers with emphysema.**
2. **Prolonged enhancement of thoracic arteries using liposomal iohexol blood pool agent – preliminary results in a rabbit PE model.**
3. **Pre-ablation assessment for left atrium: comparison of ECG-gated cardiac CT with transthoracic echocardiography.**
4. **Evaluation of a Real-time Interactive Pulmonary Nodule Analysis System on Chest Digital Radiographic Images: A Prospective Study.**
5. **Evaluation of Lung Nodule Annotations of Spatial Location on MDCT Examinations Across Expert Thoracic Radiologists Using Three Different Outlining Methods for the Lung Image Database Consortium (LIDC).**
6. **The Lung Image Database Consortium (LIDC): Radiologist Agreement in the Identification of Lung Nodules in CT Scans.**
7. **The Lung Image Database Consortium (LIDC) Data Collection Process Model: An Approach to Establish Truth for Nodule Detection and Annotation.**
8. **Diffusion weighted 3He-MR in pulmonary emphysema: a regional comparison with HRCT.**

9. **A comparison of the diagnostic accuracy of multi-detector computed tomographic angiography in coronary artery bypass grafts: a meta-analysis.**
10. **Utilization of EBT and CT coronary angiography in a diagnostic algorithm for patients presenting with acute chest pain to the Emergency Room (The care-path): Algorithm and first results.**
11. **Evaluating a diagnostic test (Introduction to research course)**
12. **Personal perspectives on an academic career (Introduction to research course)**

February 2007

Society of Physiology, Imaging and Engineering, San Diego, CA.

1. **The Lung Image Database Consortium (LIDC): A Quality Assurance Model for the Collection of Expert-Defined “Truth” in Lung-Nodule-Based Image Analysis Studies.**
2. **The Lung Image Database Consortium (LIDC) Data Collection Process for Nodule Detection and Annotation.**
3. **The Lung Image Database Consortium (LIDC): Pulmonary nodule measurements, the variation and the difference between different size metrics.**

February 2007

American Academy of Allergy, Asthma and Immunology, San Diego, CA.

Invited speaker: New imaging techniques – ready for prime time for airway inflammation?

March 2007

Cerro Gordo Medical Society, Mason City, IA.

Invited speaker: Coronary CT angiography – what is new?

May 2007

American Thoracic Society, San Diego, CA

1. **³Helium magnetic resonance imaging reveals mosaic ventilation at rest in severe asthma.**
2. **Characterization of smoking related regional alterations in pulmonary perfusion via functional CT.**
3. **Dual energy Xe-MDCT for automated assessment of the central airway tree: initial experiences.**
4. **Dual energy MDCT for volumetric assessment of V/Q: initial experiences.**

May 2007

15th Annual Scientific Meeting of the International Society of Magnetic Resonance in Medicine, Berlin, Germany.

1. **Reproducibility of quantitative parameters derived from dynamic hyperpolarized ³He MRI.**
2. **³He regional volumetry in pediatric Cystic Fibrosis – pre and post physiotherapy.**
3. **Validation of ³He MRI to CT image registration and the impact on NSCLC IMRT planning.**

June 2007

European Society of Thoracic Imaging/Fleischner Society, Athens, Greece.

Invited Speaker: Functional MR imaging using hyperpolarized 3-Helium.

Invited Speaker: MDCT of coronary arteries

Invited Speaker: Computer Assisted Diagnosis for lung cancer

September 2007

Iowa Society of Radiologic Technologists, Coralville, IA

Invited Speaker: Cardiac imaging – from CXR to CT

October 2007

North American Society for Cardiovascular Imaging, Washington, DC.

Invited Speaker: MDCT of coronary arteries: working across the disciplines.

November 2007

93rd Scientific Assembly and Annual Meeting of the RSNA, Chicago, USA.

1. **The Lung Image Database Consortium (LIDC): “Truth” and Radiologist Performance in the Detection of Lung Nodules.**
2. **Whole lung 3D Texture Classification of Interstitial Lung Diseases in MDCT images.**

January 2008

PHeLINet training school, Sorbonne University, Paris, France.

1. **Standard lung assessment techniques: Physiology, PFT, MIGET, CXR, and scintigraphic methods**
2. **Standard lung imaging techniques: CT and MRI.**

March 2008

European Congress of Radiology, Vienna, Austria.

1. **Characterization of regional alterations in pulmonary perfusion via MDCT in nonsmokers and smokers.**
2. **Intra-individual comparison of 0.5 and 1.0M contrast agents in MR angiography of chronic thromboembolic pulmonary hypertension.**
3. **A randomized double-blind comparison of contrast-induced nephropathy in high-risk patients: the PREDICT study.**

March 2008

Society of Thoracic Radiology, Ft Myers, FL

1. **Radiographic manifestations of Pulmonary Papillomatosis.**
2. **Chest X-ray CAD system: clinical experience in cancer follow-up patients.**
3. **Unexpected findings on coronary CTA – worth the trouble?**

April 2008

Iowa Society of Radiologic Technologists, Coralville, Iowa.

Invited speaker: CT of chest trauma

May 2008

16th Annual Scientific Meeting of the International Society of Magnetic Resonance in Medicine, Toronto, ON, Canada.

Categorical Course Speaker: Functional MRI – clinical applications

Topic: **MRI of pulmonary vasculature and pulmonary perfusion**

Diffusion weighted ³He-MRI in the assessment of pulmonary emphysema: A

regional evaluation.

May 2008

American Thoracic Society Annual Scientific Meeting, Toronto, ON, Canada.

Invited speaker: New developments in lung imaging: CT, PET and MRI

Invited speaker: “Meet the professor” - Assessing lung function using MRI

1. **Comparison of bronchoalveolar lavage using different volumes.**
2. **Functional imaging of the lung via dual energy CT: requirements and limitations.**
3. **Transitioning from the laboratory to the clini: adapting the Xe-CT method for human scanning.**
4. **Hyperpolarised Helium-3 MRI pre and post physiotherapy in cystic fibrosis: preliminary experiences..**

May 2008

European Society of Thoracic Imaging, Nice, France

Invited speaker: MDCT of coronary arteries – pitfalls and artifacts

October 2008

1st International Summit on the Future of Quantitative and Functional Lung Imaging, Coralville, IA, USA.

1. **Characterization of vasculature changes in smokers with MDCT-based perfusion measurements.**
2. **Practical approach of rapid prototyping raw models for respiratory flow dynamics.**
3. **A phantom for standardized assessment of quantitative lung MDCT.**
4. **Transitioning from the laboratory to the clinic: adapting the Xe-CT method for human scanning.**

November 2008

94th Scientific Assembly and Annual Meeting of the RSNA, Chicago, USA.

1. **Evaluation of the Full Field of View on Coronary CTA: Worth the Trouble?**
2. **Pictorial Assay of the Radiographic Manifestation of Recurrent Respiratory Pappilomatosis.**
3. **A phantom for standardized assessment of quantitative lung MDCT.**
4. **The lung image database consortium (LIDC): lessons learned from the development of a consensus-based public resource.**
5. **The lung image database consortium (LIDC) and image database resource initiative (IDRI): a reference databased for thoracic CT image analysis research.**
6. **Creation of a CXR databse for image database resource initiative (IDRI).**

January 2009

National Irish Cystic Fibrosis meeting, Killarney, Ireland

Invited Speaker: Computed Tomography in Cystic Fibrosis

April 2009

Iowa Radiological Society, Coralville, IA, USA

Invited speaker: Radiography of pulmonary and cardiovascular diseases

May 2009

American Thoracic Society Annual Scientific Meeting, San Diego, CA, USA.

1. **Quantitative CT features in smokers with mildly abnormal spirometry.**
2. **Factors associated with emphysema and air trapping on quantitative CT in cigarette smokers.**
3. **Association between emphysema, air trapping and airway wall thickening and airway obstruction in COPD.**
4. **Musculoskeletal disease in the COPDGene cohort.**
5. **Classification of COPD in the genetic epidemiology of chronic obstructive pulmonary disease study using global initiative for obstructive lung disease and American Thoracic Society criteria.**
6. **Susceptibility to tobacco smoke varies by gender in the COPDGene study.**
7. **Racial differences in smoking intensity in the genetic epidemiology of COPD (COPDGene) study.**
8. **Influence of race and gender on HRQL in COPD: a preliminary analysis of COPDGene.**
9. **Early interstitial lung disease in smokers from the COPDGene study.**
10. **Early interstitial lung disease characterization via lung peel analysis.**
11. **Functional Assessment of Donor Lungs using Multi-Detector Row Computed Tomography.**
12. **Establishing “Normal”: Regional Ventilation via Dynamic Xenon-CT in Humans.**
13. **Assessment of repeatability of CT-based quantitation of the human airway tree in human cadavers.**
14. **Air trapping assessed by quantitative computed tomography (QCT) in normal non-smoking humans.**