

CURRICULUM VITAE

Joachim Kettenbach, M.D.
Assoc. Prof. of Radiology



1. PERSONALIEN

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DATE & PLACE OF BIRTH 21. July 1960, Zeltweg, Styria
NATIONALITY Österreich
WORK ADDRESS Cardiovascular and Interventional Radiology,
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POSITION Chief Physician, Interventional Radiology,
University Hospital of Berne, Switzerland

EDUCATION

1985 M.D., University of Graz, Austria
1995 Post-graduate in hospital-management,
University of Economy, Vienna

PROFESSIONAL CAREER

- 1986-1989 Residencies
- 1989 Licensed as General Practitioner

- 1990-1996 Residencies in Radiotherapy and Radiology
- 1996 Licensed as Radiologist
- 1996-1998 Research Fellowship at the Image Guided Therapy Project, Dept. of Radiology, Brigham and Women's Hospital, Harvard Medical School, Boston, USA
- 1998-2008 Project Leader of Interventional MRI and Interventional Oncology, University Hospital of Vienna
- 2005 Associate Professor of Radiology
- 2008 Chief Physician, Radiology, Oberpullendorf, Austria

ACADEMIC
APPOINTMENTS

- 1995-1998 Elected Member of the University Faculty, Vienna

- 1998 Instructor and Staff Member at Dept. of Radiology, Vienna;
- 2001-2008 Cooperative Leader of Interdisciplinary Tumor Conference
- 2001-2009 Committee Member of Minimal-invasive Therapy of Austrian Roentgen-Society
- 2004 to current Steering Committee Member of the Society for Medical Innovation and Technology (SMIT)
- 2008 Elected President of 20th International Conference of SMIT, Vienna, Austria
- 2007-2009 Elected Member of Membership Committee of CIRSE
- 2008 Elected Member of Editorial Board of Minimally Invasive Technology and Therapy (MITAT)

PROFESSIONAL SKILLS

	Number of performed procedures
BIOPSIES	
Perkutaneous Biopsies (Liver, Ches, Lung, Breast, Bone,e.g.)	> 1000
TUMORABLATION	
Perkutaneous Ethanolablation of tumor (Liver, retroperitoneal area)	> 200
Perkutaneous Radiofrequenzablation of tumor (Liver, lung, kidney, bone)	> 300
Perkutaneous Laserablation of tumor	8
Perkutaneous Brachytherapy of metastasis (Liver, mediastinum)	13
Perkutaneous Cryotherapy (Liver, pelvis)	4
Perkutaneous Chemoablation Parathyroid gland	13
Perkutaneous Embolisation of Endoleak following aortic stentgraft using Thrombin- oder Onyxinstillation	10
DRAINAGE/GASTROINTESTINALE INTERVENTIONS	
Perkutaneous drainage	> 300
Perkutaneous transhepatic cholangiography, -drainage, including stent placement	> 150
Perkutaneous Gastrostomy	30
Gastrointestinal Stenttreatment of malign stenoses (esophagus, colon, rectum)	20

	Number of performed procedures
VASKULAR INTERVENTIONS	
Diagnostic Angiographies	> 1100
Transarterial Angioplasty (peripheral vessel, kidney, large carotid vessels)	> 500
Arterial Lysis	> 50
Endovaskular Stentapplikation	ca. 380
Transarterial Embolization	> 300
Implantation/Removal of Cavafilter	35
TIPS (incl. TIPS-Revisionen)	> 44
Endovaskular brachytherapy	2
Embolization using Yttrium ⁹⁰ -Spheres	19
Aortalic Stentgraft (thoracic, abdominal)	53
OTHER INTERVENTIONENS	
Vertebroplasty, Zementoplasty	22
Percutaneous transvasal removal of foreign bodies	28
Percutaneous thrombectomy	10
Ablatio of congenital cysts using ethanol	20
Sclerotherapy of AV- and lymphatic malformations	> 20
Pericarddrainage	2
Pneumothoraxdrainage	15
Percutaneous neurolysis and pain-therapy	>100
Roboter-assisted interventions (biopsies, drainage, tumorablation)	25

SCIENTIFIC GRANTS

Supporting Institution	Project Titel	Rang	Total Budget (Currency)	Start Date	Duration
Erwin-Schrödinger Forschungsstipendium Jo-1315-MED	MR-guided tissue ablation by focused ultrasound	1	30.400.- (US\$) +20.000.- (ATS)	07/1996	1 Year
Erwin-Schrödinger Forschungsstipendium J1567-MED	MR-guided tissue ablation by focused ultrasound, cryo-therapy and laser	1	10.000.- (US\$)	08/1997	1 Year
ECR'97 Research and Education Fund 1997	MR-guided tissue ablation by focused ultrasound, laser, microwave and cryotherapy.	1	200.000.- (ATS)	03/1997	1 Year
Guidant Corporation, USA	Bioelectrical Simulation of Cardiac Defibrillation	3	100.000.- (US\$)	03/1998	2 Years
Forschungsförderung, Medizinisch- Wissenschaftlicher Fonds des Bürgermeisters der Bundeshauptstadt Wien	MR-gezielte perkutene Brachytherapie von nichtresezierbaren Lebermetastasen.	3	140.000.- (ATS)	10/1999	1 Year
Österreichisches Bundesministerium für Verkehr, Innovation und Technologie - BMVIT	Integriertes "Low-Cost" Robotersystem für Anwendungen in der interventionellen Radiologie	3	96.700.- (€)	03/2001	1 Year
§ 27-Forschungs- auftrag, Med. Univ. Wien mit Fa. CeloNova	Uterine Fibroid Embolization Study Using Embosene Microspheres	1	7500.- (€)	08/2006	1 Year
Fonds zur Förderung der wissenschaftlichen Forschung FWF P19931	Innovative Aspects of 2D/3D Registration for Image Guided Therapy	2	280.297 (€)	2008	2 Years
Österreichische Forschungsförderungs- gesellschaft mbH - FFG	Developement of new operating platform "IntraROB"	4	405.500.-- (€)	08/2005	03/2008
Zuteilung von Forschungsmittel durch die Med.Univ. Wien	Clinical application of roboter-assisted MR- guided intervention	1	39.800.- (€)	01/2008	1 Year

SELECTED PUBLICATIONS JOACHIM KETTENBACH (1998-2009)

Monitoring and visualization techniques for MR-guided laser ablations in an open MR system. Kettenbach J, Silverman SG, Hata N, Kuroda K, Saiviroonporn P, Zientara GP, Morrison PR, Hushek SG, Black PM, Kikinis R, Jolesz FA. J Magn Reson Imaging. 1998 Jul-Aug;8(4):933-43.

Effects of a microbubble contrast agent on breast tumors: computer-assisted quantitative assessment with color Doppler US--early experience. Huber S, Helbich T, Kettenbach J, Dock W, Zuna I, Delorme S. Radiology. 1998 Aug;208(2):485-9.

MRI-assisted brachytherapy of nonresectable liver metastases. Preliminary technical and clinical experiences. Kettenbach J, Pokrajac B, Schamp S, Fellner C, Schmid R, Gustorff B, Berger J, Grgurin M, Peer K, Wolff U, Seitz W, Potter R, Lammer J. Radiologe. 2001 Jan;41(1):56-63.

MR imaging-guided focused ultrasound surgery of fibroadenomas in the breast: a feasibility study. Hynynen K, Pomeroy O, Smith DN, Huber PE, McDannold NJ, Kettenbach J, Baum J, Singer S, Jolesz FA. Radiology. 2001 Apr;219(1):176-85.

Percutaneous saline-enhanced radiofrequency ablation of unresectable hepatic tumors: initial experience in 26 patients. Kettenbach J, Kostler W, Rucklinger E, Gustorff B, Hupfl M, Wolf F, Peer K, Weigner M, Lammer J, Muller W, Goldberg SN. AJR Am J Roentgenol. 2003 Jun;180(6):1537-45.

Heat shock protein expression induced by percutaneous radiofrequency ablation of hepatocellular carcinoma in vivo. Schueller G, Kettenbach J, Sedivy R, Stift A, Friedl J, Gnant M, Lammer J. Int J Oncol. 2004 Mar;24(3):609-13.

Expression of heat shock proteins in human hepatocellular carcinoma after radiofrequency ablation in an animal model. Schueller G, Kettenbach J, Sedivy R, Bergmeister H, Stift A, Friedl J, Gnant M, Lammer J. Oncol Rep. 2004 Sep;12(3):495-9.

Percutaneous radiofrequency ablation of liver cell carcinoma: a current overview. Kettenbach J, Blum M, Kilanowicz E, Schwaighofer SM, Lammer J. Radiologe. 2004 Apr;44(4):330-8.

Computer-assisted quantitative assessment of power Doppler US: effects of microbubble contrast agent in the differentiation of breast tumors.

Kettenbach J, Helbich TH, Huber S, Zuna I, Dock W.

Eur J Radiol. 2005 Feb;53(2):238-44.

Arterial embolization of unresectable hepatocellular carcinoma with use of microspheres, lipiodol, and cyanoacrylate. Rand T, Loewe C, Schoder M, Schmook MT, Peck-Radosavljevic M, Kettenbach J, Wolf F, Schneider B, Lammer J.

Cardiovasc Intervent Radiol. 2005 May-Jun;28(3):313-8

Comparison of expandable electrodes in percutaneous radiofrequency ablation of renal cell carcinoma. Gulesserian T, Mahnken AH, Schernthaner R, Memarsadeghi M, Weber M, Tacke, Kettenbach J. Eur J Radiol. 2006;59(2):133-9.

Intraoperative and Interventional MRI: Recommendations for a Safe Environment.

Kettenbach Joachim, Daniel F. Kacher, Angela R Kanan, Bill Rostenberg, Janice Fairhurst, Alfred Stadler, K. Kienreich, Ferenc A. Jolesz.

Minim Invasive Ther Allied Technol. 2006;15(2):53-64

2D/3D slice-to-volume registration and its application
fluoroscopic CT images. Birkfellner W, Figl M, Kettenbach J, Hummel J, Homolka P, Schernthaner R, Nau T, Bergmann H. Rigid

Med Phys. 2007 Jan;34(1):246-55.

Drug-loaded microspheres for the treatment
cancer: review of current results.

Joachim Kettenbach, Alfred Stadler, Isabella v. Katzler, Rüdiger Schernthaner, Johannes Lammer, Thomas Rand. Cardiovasc Intervent Radiol. 2008 Jan 29;

The Zernike expansion--an example of a merit function for 2D/3D registration based on orthogonal functions.

Dong S, Kettenbach J, Hinterleitner I, Bergmann H, Birkfellner W. Med Image Comput Assist Interv Int Conf Med Image Comput Assist Interv. 2008;11(Pt 2):964-71.

Delayed Development of Pneumothorax After Pulmonary Radiofrequency Ablation. Clasen S, Kettenbach J, Kosan B, Aebert H, Schernthaner M, Kröber SM, Bömches A, Claussen CD, Pereira PL.

Cardiovasc Intervent Radiol. 2009 Jan 7. Epub