

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.

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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.

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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.

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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.

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cancer: review of current results.

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Clasen S, Kettenbach J, Kosan B, Aebert H, Schernthaner M, Kröber SM, Bömches A, Claussen CD, Pereira PL.

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