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### Education

- 02 - 10/2015 Course "Principles and Practices of Clinical Research", Harvard T.H. Chan School of Public Health, Boston, USA
- 10/2014 Doctoral Thesis (Dr. rer. medic.), Department of Radiology, Charité – Universitätsmedizin Berlin, Germany, Topic: *Health economic evaluation of imaging-guided treatments in interventional radiology*
- 09/2012 Habilitation in Radiology, Charité – Universitätsmedizin Berlin, Germany, Topic: *Management of patients and costs in radiology*
- 10/2009 – 09/2011 Master of Health Business Administration, Universität Erlangen-Nürnberg, Germany
- 06/2007 Doctoral Thesis (Dr. med.), Department of Human Genetics, Charité – Universitätsmedizin Berlin, Germany, (Prof. K. Sperling), Topic: *The Nijmegen Breakage Syndrome - Frequency and Cancer Risk of Heterozygotes*
- 2002 – 2007 Studies of Business Administration, FernUniversität Hagen, Germany, Majors: Service management, Planning and organizational management, Degree: Diplom-Kaufmann
- 04/2004 – 12/2004 Clinical Rotations: Surgery (Hôpital Cochin, Université René Descartes, Paris, France) and Internal Medicine (St. James' Hospital, Trinity College Dublin, Ireland)
- 04/1998 – 06/2005 Medical School, Westfälische-Wilhelms-Universität Münster, Germany and Charité – Universitätsmedizin Berlin, Germany, Approbation

## Professional Experience

Current	Team Leader Abdominal Imaging
01/2014 –	Staff Radiologist (Oberarzt), Department of Diagnostic, Interventional, and Pediatric Radiology, Inselspital - University of Bern, Switzerland (Professor Dr. Dr. J. Heverhagen)
01/2012 – 12/2013	Staff Radiologist, Department of Diagnostic and Interventional Radiology, Charité – Universitätsmedizin Berlin, Germany (Professor Dr. B. Hamm)
12/2011	Radiology Board Certification, Berlin, Germany
10/2006 – 12/2011	Residency in Radiology, Department of Diagnostic and Interventional Radiology, Charité – Universitätsmedizin Berlin, Germany (Professor Dr. B. Hamm)

## Scientific Activities and Special Clinical Interests

- Abdominal Imaging
- Management in Radiology
- Musculoskeletal Radiology

## Scientific publications

1. Steffen J, Varon R, Mosor M, Maneva G, **Maurer M**, Stumm M, Nowakowska D, Rubach M, Kosakowska E, Ruka W, Nowecki Z, Rutkowski P, Demkow T, Sadowska M, Bidziński M, Gawrychowski K, Sperling K. Increased cancer risk of heterozygotes with NBS1 germline mutations in Poland. *International Journal of Cancer* 2004; 111(1):67-71.
2. **Maurer MH**, Knopke S, Schröder RJ. Diagnostischer Zugewinn der 16-Zeilen-Ganzkörper-Spiral-CT bei polytraumatisierten Patienten differenziert nach Körperregion und Verletzungsschwere gemäß ATLS©-Konzept. *RöFo* 2008; 180(12):1117-23.
3. **Maurer MH**, Beck A, Hamm B, Gebauer B. Central venous port catheters: evaluation of patients' satisfaction with implantation under local anesthesia. *Journal of Vascular Access* 2009; 10(1):27-32.
4. **Maurer MH**, Hamm B, Dewey M. Survey regarding the clinical practice of cardiac CT in Germany: indications, scanning technique and reporting. *RöFo* 2009; 181(12):1135-43.
5. **Maurer MH**, Hoffmann K, Sperling K, Varon R. High prevalence of the NBN gene mutation c.657-661del5 in Southeast Germany. *Journal of Applied Genetics* 2010; 51(2):211-4.
6. Huppertz A, Schmidt M, Wagner M, Puettcher O, Asbach P, Strassburg J, Stöckmann F, Schöffski O, **Maurer MH**. Whole-body MR imaging versus sequential multimodal diagnostic algorithm for staging patients with rectal cancer: cost analysis. *RöFo* 2010; 182(9):793-802.
7. **Maurer MH**, Stein E, Schreiter NF, Renz DM, Poellinger A. Gezielte Methoden zur Messung der Patientenzufriedenheit in einem radiologischen Versorgungszentrum (MVZ). *RöFo*. 2010; 182(11):965-72.
8. **Maurer MH**, Niehues SM, Schnapauß D, Grieser C, Rothe JH, Waldmüller D, Chopra SS, Hamm B, Denecke T. Low-dose computed tomography to detect body-packing in an animal model. *European Journal of Radiology* 2011; 78(2):302-6.
9. **Maurer M**, Heine O, Wolf M, Freyhardt P, Schnapauß D, Hamm B. Safety and tolerability of iobitridol in general and in patients with risk factors: results in more than 160,000 patients. *European Journal of Radiology* 2011; 80(2):357-62.
10. **Maurer MH**, Hamm B, Teichgräber U. ServiceBlueprinting as a service management tool in radiology. *European Journal of Radiology* 2011; 79(3):333-6.
11. **Maurer MH**, Mogl MT, Podrabsky P, Denecke T, Grieser C, Fröling V, Scheurig-Münkler C, Guckelberger O, Kroencke TJ. Splenic artery syndrome after orthotopic liver transplantation: treatment with the Amplatzer vascular plug. *Cardiovascular and Interventional Radiology* 2011;34(6):1208-13.
12. Scheurig-Muenkler C, Lembcke A, Froeling V, **Maurer M**, Hamm B, Kroencke TJ. Uterine artery embolization for symptomatic fibroids: long-term changes in disease-specific symptoms and quality of life. *Human Reproduction* 2011; 26(8):2036-42.
13. **Maurer MH**, Zimmermann E, Schlattmann P, Germershausen C, Hamm B, Dewey M. Indications, imaging technique, and reading of cardiac computed tomography: survey of clinical practice. *European Radiology* 2012; 22(1):59-72.

14. Schreiter NF, Brenner W, Nogami M, Buchert R, Huppertz A, Pape UF, Prasad V, Hamm B, **Maurer MH**. Cost comparison of <sup>111</sup>In-DTPA-octreotide scintigraphy and <sup>68</sup>Ga-DOTATOC PET/CT for staging enteropancreatic neuroendocrine tumours. *European Journal of Nuclear Medicine and Molecular Imaging* 2012; 39(1):72-82.
15. **Maurer MH**, Winkler A, Wichlas F, Powerski MJ, Elgeti F, Huppertz A, Röttgen R, Marnitz T. Kosten und Stellenwert von Ultraschallverlaufskontrollen bei polytraumatisierten Patienten nach initialer Computertomografie. *RöFo* 2012; 184(1):53-8.
16. Schäfer ML, Böttcher J, Pfeil A, Hansch A, Malich A, **Maurer MH**, Streitparth F, Röttgen R, Renz DM. Comparison between amputation-induced demineralization and age-related bone loss using digital X-ray radiogrammetry. *Journal of Clinical Densitometry* 2012; 15(2):135-45.
17. Renz DM, Böttcher J, Diekmann F, Poellinger A, **Maurer MH**, Pfeil A, Streitparth F, Colletini F, Bick U, Hamm B, Fallenberg EM. Detection and classification of contrast-enhancing masses by a fully automatic computer-assisted diagnosis system for breast MRI. *Journal of Magnetic Resonance Imaging* 2012; 35(5):1077-88.
18. **Maurer M**, Heine O, Wolf M, Durmus T, Wagner M, Hamm B. Tolerability and diagnostic value of gadoteric acid in the general population and in patients with risk factors: results in more than 84,000 patients. *European Journal of Radiology* 2012; 81(5):885-90.
19. Froeling V, Elgeti F, **Maurer MH**, Scheurig-Muenkler C, Beck A, Kroencke TJ, Pape UF, Hamm B, Brenner W, Schreiter NF. Impact of Ga-68 DOTATOC PET/CT on the diagnosis and treatment of patients with multiple endocrine neoplasia. *Annals of Nuclear Medicine* 2012; 26(9):738-43.
20. **Maurer MH**, Gebauer B, Wieners G, De Bucourt M, Renz DM, Hamm B, Streitparth F. Treatment of osteoid osteoma using CT-guided radiofrequency ablation versus MR-guided laser ablation: a cost comparison. *European Journal of Radiology* 2012; 81(11):e1002-6.
21. Wagner M, Schilling R, Doebelin P, Huppertz A, Luhur R, Schwenke C, **Maurer M**, Hamm B, Taupitz M, Durmus T. Macrocyclic contrast agents for magnetic resonance imaging of chronic myocardial infarction: intraindividual comparison of gadobutrol and gadoterate meglumine. *European Radiology* 2013; 23(1):108-14.
22. **Maurer MH**, Synowitz M, Badakshi H, Lohkamp LN, Wüstefeld J, Schäfer ML, Wiener E. Glioblastoma multiforme versus solitary supratentorial brain metastasis: differentiation based on morphology and magnetic resonance signal characteristics. *RöFo* 2013;185(3):235-40.
23. Schreiter NF, Volkwein N, Schneider P, **Maurer MH**, Piper S, Schmitz C, Poellinger A. Optical imaging of breast cancer using hemodynamic changes induced by valsalva maneuver. *RöFo* 2013; 185(4):358-66.
24. Streitparth F, De Bucourt M, Hartwig T, Leidenberger T, Rump J, Walter T, **Maurer M**, Renz D, Stelter L, Wiener E, Hamm B, Teichgräber U. Real-time MR-guided lumbosacral periradicular injection therapy using an open 1.0-T MRI system: an outcome study. *Invest Radiol.* 2013 Jun;48(6):471-6.
25. Froeling V, Meckelburg K, Scheurig-Muenkler C, Schreiter NF, Kamp J, **Maurer MH**, Beck A, Hamm B, Kroencke TJ. Midterm Results after Uterine Artery Embolization Versus MR-Guided High-Intensity Focused Ultrasound Treatment for Symptomatic Uterine Fibroids. *Cardiovascular and Interventional Radiology* 2013; 36(6):1508-13.

26. **Maurer MH**, Schreiter N, de Bucourt M, Grieser C, Renz DM, Hartwig T, Hamm B, Streitparth F. Cost comparison of nerve root infiltration of the lumbar spine under MRI and CT guidance. *European Radiology* 2013; 23(6):1487-94.
27. **Maurer MH**, Disch AC, Hartwig T, Renz DM, Schreiter N, Hamm B, Streitparth F. Outcome Study of Real-time MR-guided Cervical Periradicular Injection Therapy in an Open 1.0 Tesla MRI System. *Cardiovascular and Interventional Radiology* 2013 Sep 18 [Epub ahead of print].
28. Streitparth F, Hartwig T, Walter T, De Bucourt M, Putzier M, Strube P, Bretschneider T, Freyhardt P, **Maurer M**, Renz D, Gebauer B, Hamm B, Teichgräber UK. MR guidance and thermometry of percutaneous laser disc decompression in open MRI: an initial clinical investigation. *European Radiology* 2013; 23(10):2739-46.
29. Schäfer ML, **Maurer MH**, Synowitz M, Wüstefeld J, Marnitz T, Streitparth F, Wiener E. Low-grade (WHO II) and anaplastic (WHO III) gliomas: differences in morphology and MRI signal intensities. *European Radiology* 2013; 23(10):2846-53.
30. Böttcher J, Hansch A, Pfeil A, Schmidt P, Malich A, Schneeweiss A, **Maurer MH**, Streitparth F, Teichgräber UK, Renz DM. Detection and classification of different liver lesions: Comparison of Gd-EOB-DTPA-enhanced MRI versus multiphasic spiral CT in a clinical single centre investigation. *European Journal of Radiology* 2013; 82(11):1860-9.
31. Rothe JH, Grieser C, Lehmkühl L, Schnapauff D, Fernandez CP, **Maurer MH**, Mussler A, Hamm B, Denecke T, Steffen IG. Size determination and response assessment of liver metastases with computed tomography-Comparison of RECIST and volumetric algorithms. *European Journal of Radiology* 2013; 82(11):1831-9.
32. Freyhardt P, Hartwig T, De Bucourt M, **Maurer M**, Renz D, Gebauer B, Hamm B, Teichgräber UK, Streitparth F. MR-guided facet joint injection therapy using an open 1.0-T MRI system: an outcome study. *European Radiology* 2013; 23(12):3296-303.
33. Froeling V, Meckelburg K, Schreiter NF, Scheurig-Muenkler C, Kamp J, **Maurer MH**, Beck A, Hamm B, Kroencke TJ. Outcome of uterine artery embolization versus MR-guided high-intensity focused ultrasound treatment for uterine fibroids: Long-term results. *European Journal of Radiology* 2013; 82(12):2265-9.
34. Böttcher J, Renz DM, Zahm DM, Pfeil A, Fallenberg EM, Streitparth F, **Maurer MH**, Hamm B, Engelken FJ. Response to neoadjuvant treatment of invasive ductal breast carcinomas including outcome evaluation: MRI analysis by an automatic CAD system in comparison to visual evaluation. *Acta Oncol* 2014; 53(6):759-68
35. **Maurer MH**, Froeling V, Röttgen R, Bretschneider T, Hartwig T, Disch AC, de Bucourt M, Hamm B, Streitparth F. MRI-Guided and CT-Guided Cervical Nerve Root Infiltration Therapy: A Cost Comparison. *Rofo*. 2014 ; 186(6):559-66.
36. Kahn J, Grupp U, **Maurer M**. How does arm positioning of polytraumatized patients in the initial computed tomography (CT) affect image quality and diagnostic accuracy? *European Journal of Radiology* 2014 Jan;83(1):e67-71.
37. Renz DM, Durmus T, Böttcher J, Taupitz M, Diekmann F, Huppertz A, Pfeil A, **Maurer MH**, Streitparth F, Bick U, Hamm B, Fallenberg EM. Comparison of gadoteric acid and gadobutrol for detection as well as morphologic and dynamic characterization of lesions on breast dynamic contrast-enhanced magnetic resonance imaging. *Invest Radiol*. 2014; 49(7):474-84.

38. **Maurer MH**, Zimmermann E, Hamm B, Dewey M. CT Coronary Angiography Versus Conventional Invasive Coronary Angiography - The View of the Referring Physician. *Rofo* 2014; 186(12):1102-1110.
39. Kaul D, Fallenberg E, Diekmann F, Budach V, **Maurer M**. Dislocability of localization devices for nonpalpable breast lesions: experimental results. *Radiol Res Pract.* 2014; 2014:425823.
40. Schreiter NF, **Maurer M**, Pape UF, Hamm B, Brenner W, Froeling V. Detection of neuroendocrine tumours in the small intestines using contrast-enhanced multiphase Ga-68 DOTATOC PET/CT: the potential role of arterial hyperperfusion. *Radiology and Oncology* 2014; 48(2):120-6.
41. **Maurer MH**, Hamm B, Huppertz A, Lembcke A.  
Ultra-Low-Dose Dual-Source CT Coronary Angiography with High Pitch: Diagnostic Yield of a Volumetric Planning Scan and Effects on Dose Reduction and Imaging Strategy. *British Journal of Radiology* 2015; 88(1049):20140602.
42. Walter TC, Steffen IG, Stelter LH, **Maurer MH**, Bahra M, Faber W, Klein F, Bläker H, Hamm B, Denecke T, Grieser C. Implications of Imaging Criteria for the Management and Treatment of Intraductal Papillary Mucinous Neoplasms – Benign versus Malignant Findings. *European Radiology* 2015; 25(5):1329-38.
43. Froeling V, Heimann U, Huebner RH, Kroencke TJ, **Maurer MH**, Doellinger F, Geisel D, Hamm B, Brenner W, Schreiter NF. Ventilation/perfusion SPECT or SPECT/CT for lung function imaging in patients with pulmonary emphysema? *Annals of Nuclear Medicine* 2015; 29(6):528-34.
44. Böning G, Schäfer M, Grupp U, Kaul D, Kahn J, Pavel M, **Maurer M**, Denecke T, Hamm B, Streitparth F. Comparison of applied dose and image quality in staging CT of neuroendocrine tumor patients using standard filtered back projection and adaptive statistical iterative reconstruction. *European Journal of Radiology* 2015; 84(8):1601-7.
45. Renz DM, Scholz O, Böttcher J, **Maurer MH**, Denecke T, Schwarz C, Pfeil A, Streitparth F, Huppertz A, Mehl A, Poellinger A, Staab D, Hamm B, Mentzel HJ.  
Comparison between magnetic resonance imaging and computed tomography of the lung in patients with cystic fibrosis with regard to clinical, laboratory, and pulmonary functional parameters. *Investigative Radiology* 2015; 50(10):733-42.
46. Renz DM, Malich A, Ulrich A, Pfeil A, Mentzel HJ, Streitparth F, **Maurer MH**, Teichgräber UK, Böttcher J. Reference values for digital X-ray radiogrammetry parameters in children and adolescents in comparison to estimates in patients with distal radius fractures. *Journal of Bone and Mineral Metabolism* 2016; 34(1):55-64.
47. Schnapauff D, Collettini F, Steffen I, Wieners G, Hamm B, Gebauer B, **Maurer MH**.  
Activity-based cost analysis of hepatic tumor ablation using CT-guided high-dose rate brachytherapy or CT-guided radiofrequency ablation in hepatocellular carcinoma. *Radiation Oncology* 2016; 25(11):26.
48. Krozcek E, Wieners G, Steffen I, Lindner T, Streitparth F, Hamm B, **Maurer MH**.  
Non-traumatic incidental findings in patients undergoing whole-body computed tomography at initial emergency admission. *Journal of Emergency Medicine*, accepted, in press
49. Streitparth F, Althoff C, Jonczyk M, Guettler F, **Maurer M**, Rathke H, Sponheuer KM, Hamm B, Teichgräber UK, de Bucourt M. Tailored interactive sequences for continuous MR-image-guided freehand biopsies of different organs in an open system at 1.0 tesla (T) - Initial experience. *Biomed Tech (Berl)*. 2017 Jan 11, ahead of print

## Review articles

1. **Maurer MH**, Teichgräber U, Kröncke TJ, Hamm B, Lemke AJ. Die Balanced Scorecard – Anwendungsmöglichkeiten in der Radiologie. RöFo. 2012; 184(12):1118-25.
2. **Maurer M**. Controlling-Instrumente in der Radiologie. Der Radiologe 2013; 53(10):913-6.
3. Grupp U, **Maurer M**. Verbesserung der Prozesse rund um den radiologischen Arbeitsplatz, Der Radiologe 2014;54(1):27-31.
4. Bhojwani N, Szpakowski P, Partovi S, **Maurer MH**, Grosse U, von Tengg-Kobligk H, Zipp-Partovi L, Fergus N, Kosmas C, Nikolaou K, Robbin MR. Diffusion-weighted imaging in musculoskeletal radiology-clinical applications and future directions. Quant Imaging Med Surg. 2015 Oct;5(5):740-53.
5. **Maurer MH**, Härmä K, Thöny H. Diffusion-weighted genitourinary imaging. Radiologic Clinics of North America. In press 12/2016

## Books and book chapters

1. **Maurer M**, Wiener E. „Last Minute Bildgebende Verfahren“, a textbook for students for preparing the German State exam, Elsevier publishing, 112 pages, published 09/2013
2. **Maurer M**. Vergleichende Kostenanalysen in den bildgebenden Verfahren. Jahrbuch Gesundheitswirtschaft 2014, Wegweiser Verlag, Berlin, 2014

## Appointments as Reviewer

European Radiology  
RöFo - Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren  
Cardiovascular and Interventional Radiology  
Acta Radiologica  
Neuroradiology  
BMC Muskuloskeletal Disorders  
Clinical Imaging

## Memberships in Professional Societies

Schweizerische Gesellschaft für Radiologie (SGR-SSR)  
Deutsche Röntgengesellschaft (DRG)  
European Society of Radiology (ECR)  
European Society of Gastrointestinal and Abdominal Imaging (ESGAR)  
European Society of Muskuloskeletal Radiology (ESSR)  
European Society of Cardiac Radiology (ESCR)

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