

Univ.-Prof. Dr. med. Diane Renz, *04.11.1973

Institute of Diagnostic and Interventional Radiology/ Department of Pediatric Radiology;
Hannover Medical School; Carl-Neuberg-Str. 1, 30625 Hannover;
Phone: +49 (0) 511-532 3256; E-Mail: renz.diane@mh-hannover.de

Chair of Pediatric Radiology

Positions & Employment

- 2001-2002 Fellow Radiology, Institute of Diagnostic Radiology and Interventional Therapy;
Auguste Viktoria Clinic Berlin (Prof. Dr. med. F. Fobbe)
- 2005-2008 Fellow Radiology, Institute of Diagnostic and Interventional Radiology;
University Hospital Jena (Univ.-Prof. Dr. med. W.A. Kaiser)
- 2008-2010 Fellow Radiology, Department of Radiology; Charité University Medicine Berlin
(Univ.-Prof. Dr. med. B. Hamm)
- 2010 Specialization in Radiology
- 2010-2014 Radiologist, Department of Radiology; Charité University Medicine Berlin (Univ.-
Prof. Dr. med. B. Hamm)
- 2014-2018 Fellow Pediatric Radiology, Institute of Diagnostic and Interventional Radiology,
Section Pediatric Radiology; University Hospital Jena
(Univ.-Prof. Dr. med. U. Teichgräber; Univ.-Prof. Dr. med. H.J. Mentzel)
- 2018 Specialization in Pediatric Radiology
- 2018-2019 Pediatric Radiologist, Institute of Diagnostic and Interventional Radiology,
Section Pediatric Radiology; University Hospital Jena
(Univ.-Prof. Dr. med. U. Teichgräber; Univ.-Prof. Dr. med. H.J. Mentzel)
- Since 2019 Chair for Pediatric Radiology; Institute of Diagnostic and Interventional
Radiology; Hannover Medical School (Univ.-Prof. Dr. med. F. Wacker)

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Education & Degrees

- 1993-2000 Medical study (Mainz, Germany; Dijon, France; Aachen, Germany) with
medical degree (final grade 1.0)
- 2005 Degree in practical journalism (Dipl. journ.) in Munich, Germany
- 2005 Doctoral thesis in Medicine
- 2010 Specialization in Radiology
- 2014 Habilitation thesis in Radiology
- 2018 Specialization in Pediatric Radiology

Additional Qualifications

- 2014 Certificate in Radiology Ultrasound of the DEGUM (German Society of
Ultrasound in Medicine) Level I
- 2016 Certificate in Radiology Ultrasound of the DEGUM (German Society of
Ultrasound in Medicine) Level II
- 2018 Certificate in Pediatric Ultrasound of the DEGUM (German Society of
Ultrasound in Medicine) Level I
- 2024 Certificate in Pediatric Ultrasound of the DEGUM (German Society of
Ultrasound in Medicine) Level II
- 2024 Certificate in Cardiac Imaging Computed Tomography (CT) as well as
Magnetic Resonance Imaging (MRI) Level III of the DRG (German
Radiological Society)

Honors and Awards

Publication Award of the Society for Pediatric Radiology (GPR) 2025 for the original paper entitled **(as last author):**

Phase-resolved functional lung MRI reveals distinct lung perfusion phenotype in children and adolescents with post-COVID-19 condition;
published in *Radiology* 2025; 314(2): e241596.

Second Lecture Award on the occasion of the Congress of the Society of Pediatric Radiology (GPR) 2024 for the scientific contribution entitled

(as last author):

Reduktion der Strahlenexposition pädiatrischer Low-Dose-Untersuchungen des Thorax mittels Photonenzählender Computertomographie.

Second Publication Award of the Society for Pediatric Radiology (GPR) 2024 for the original paper entitled

(as co-author):

PREFUL MRI for monitoring perfusion and ventilation changes after Elexacaftor-Tezacaftor-Ivacaftor therapy for cystic fibrosis: a feasibility study;
published in *Radiology: Cardiothoracic Imaging*. 2024; 6(2): e230104.

First Lecture Award at the 2023 Congress of the Society of Pediatric Radiology (GPR) for the scientific contribution entitled

(as last author):

Multiparametrische MRT-Untersuchung des Herzens bei Kindern mit einem Post-COVID-Syndrom: Vergleich mit einem alters- und geschlechtsangepassten Normalkollektiv.

Poster Prize at the 2022 Congress of the Society of Pediatric Radiology (GPR) for the scientific contribution entitled

(as last author):

Erreger-typische Charakteristika in Röntgenuntersuchungen des Thorax bei ambulant erworbenen Pneumonien des Kindes- und Jugendalters (pedCAP).

Scientific Poster Award at the Congress of the European Society of Paediatric Radiology (ESPR) 2018 (Berlin) for the scientific contribution with the title

(as first author):

Is there a T1-weighted signal increase within the dentate nucleus and the globus pallidus after serial applications of gadopentetate dimeglumine (Gd-DTPA) versus gadobutrol in paediatric populations?

Poster Award „Magna cum laude“ at the 99th German Radiology Congress 2018 (Leipzig) for the scientific contribution entitled

(as second author):

Vergleichende Untersuchung der CT- und MR-Virtopsie mit konventioneller Autopsie bei Kindern.

Arthur Schlossmann Prize 2018 of the Saxon-Thuringian Society for Pediatric and Adolescent Medicine and Pediatric Surgery e.V. for the scientific work entitled **(as first author):**

Intracranial gadolinium deposits in children and adolescents after multiple contrast agent applications.

Awarded at the Annual Conference 2018 of the Saxon-Thuringian Society for Pediatric and Adolescent Medicine and Pediatric Surgery e.V. in Jena.

EUSOBI (European Society of Breast Imaging) Award for the most quoted breast imaging paper published in European Radiology in 2014;

awarded at the EUSOBI Annual Conference 2017 (Berlin);

for the original paper entitled

(as last author):

Contrast-enhanced spectral mammography versus MRI: initial results in the detection of breast cancer and assessment of tumour size.

Third Publication Award of the Society of Pediatric Radiology 2016 for the original paper entitled

(as first author):

Reference values for digital X-ray radiogrammetry parameters in children and adolescents in comparison to estimates in patients with distal radius fracture;

published in *Journal of Bone and Mineral Metabolism* 2016; 34(1): 55-64;

Report about the Award in *Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren (RöFo)* 2016; 188(12): 1180-1182.

Walter Friedrich Prize 2015 of the German Radiological Society for the habilitation thesis entitled:

Computerassistierte Diagnoseverfahren in der Radiologie:

Klinische Anwendungen, Benefit und Limitationen.

Awarded at the 96th German Radiology Congress 2015 in Hamburg.

Poster Prize “Cum laude” at the 95th German Radiology Congress 2014 (Hamburg) for the scientific contribution entitled

(as first author):

Diagnostischer Stellenwert computerassistierter Auswertungen von MR-Mammographien für die Beurteilung des Erfolgs einer neoadjuvanten Chemotherapie.

Gustav Bucky Prize 2013 of the Berliner Röntgengesellschaft/ Röntgenvereinigung zu Berlin und Brandenburg e.V. for the original work entitled

(as first author):

Pharmacokinetic approach for dynamic breast MRI to indicate signal intensity time curves of benign and malignant lesions by using the tumor flow residence time;

publiziert in *Investigative Radiology* 2013; 48(2): 69-78;

Report about the Award in *Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren (RöFo)* 2013; 185(6): 531.

Poster prize “Magna cum laude” at the 88th German Radiology Congress 2007 (Berlin) for the scientific contribution entitled

(as first author):

Evaluation der klinischen Wertigkeit computergestützter Analysen in der MR-Mammographie: Vergleich zwischen zwei Systemen und drei Untersuchern.

Poster Prize at the Annual Conference of Thuringian Internists 2015 (Jena) for the scientific contribution entitled

(as co-author):

Die Therapie mit Certolizumab Pegol ist mit einer Hemmung des periartikulären Knochenmineraldichteverlustes bei einer rheumatoiden Arthritis assoziiert.

Best Scientific Paper Presentation at the European Congress of Radiology 2008 (Vienna) for the scientific presentation entitled

(as second author):

Diffusion weighted imaging (DWI) in MR-mammography (MRM): comparison of echo planar imaging (EPI) and half-Fourier single-shot turbo spin echo (HASTE) diffusion techniques.

Extramural Funding acquired

Application writer of the DFG proposal entitled “Clinical relevance of an image fusion of digital X-ray mammograms with magnetic resonance tomography images of the breast” (No. KA 923/8-1/ RU 1547/1-1) in 2008 (Jena University Hospital):
Amount awarded 50.000 EUR

Principal Investigator of the project entitled “Establishment of an Image Database for the Li-Fraumeni-Syndrome-Cancer Predisposition-Syndrome Registry 01” for the Dieter-Schlag-Stiftung in 2020 (Hannover Medical School):
Amount awarded 9420 EUR

Principal Investigator of the Network University Medicine Project (NUM) RACOON-RESCUE (Radiological Evaluation and Stratification of Childhood Lymphoma by Use of Expert AI) in 2024 (Hannover Medical School):
Amount awarded 1011.474 EUR

Principal Investigator of the Network University Medicine Project (NUM) RACOON-INCLUDED (Imaging Network for Childhood Acute Lymphoblastic Leukemia Using Data with Extended Diagnostics) in 2025 (Hannover Medical School):
Amount awarded 605.527 EUR

Principal Investigator of the MHH Plus Project entitled „Automatisierte Erkennung kindlicher Leberzirrhose durch eine KI-gestützte Formanalyse der Leber“ in 2025 (Hannover Medical School):
Amount awarded 42.000 EUR

Principal Investigator of the BMFTR Project entitled „Optimierung einer standardisierten radiologischen Befundung als Vorbereitung zum Aufbau einer Referenzradiologie bei kindlichem Non-Hodgkin-Lymphom“ in 2025 (Hannover Medical School):
Amount awarded 50.000 EUR

Principal Investigator of the MHH Plus Project entitled „Optimierung und Evaluation eines Kleinkind-Magnetresonanztomografen“ for 2026/ 2027 (Hannover Medical School):
Amount awarded 56.000 EUR

Five most important Publications

- 1) Pöhler GH, Voskrebenezv A, Heinze ML, Skeries V, Klimeš F, Glandorf J, Eckstein J, Babazade N, Wernz M, Pfeil A, Hansen G, Wacker FK, Vogel-Claussen J, Wetzke M, **Renz DM**.
Phase-resolved functional lung MRI reveals distinct lung perfusion phenotype in children and adolescents with post-COVID-19 condition.
Radiology 2025; 314(2): e241596. Doi: 10.1148/radiol. IF 12.1
- 2) Eckstein J, Skeries V, Pöhler G, Babazade N, Kaireit T, Gutberlet M, Kornemann N, Hellms S, Pfeil A, Bucher AM, Hansmann G, Beerbaum P, Hansen G, Wacker F, Vogel-Claussen J, Wetzke M, **Renz DM**.
Multiparametric cardiovascular MRI assessment of Post-COVID syndrome in children in comparison to matched healthy individuals.
Invest Radiol 2024;59(6):472-478. Doi: 10.1097/RLI.0000000000001048. IF 7.0

- 3) Graeber SY*, **Renz DM***, Stahl M, Pallenberg ST, Sommerburg O, Naehrlich L, Berges J, Dohna M, Ringshausen FC, Doellinger F, Vitzthum C, Röhmel J, Allomba C, Hämmerling S, Barth S, Rückes-Nilges C, Wielpütz MO, Hansen G, Vogel-Claussen J, Tümmler B, Mall MA, Dittrich AM. *shared first authorship
Effects of Elexacaftor/Tezacaftor/Ivacaftor therapy on lung clearance index and magnetic resonance imaging in patients with cystic fibrosis and one or two F508del alleles.
Am J Respir Crit Care Med 2022 Aug 1;206(3):311-320. Doi: 10.1164/rccm.202201-0219OCs. IF 24.7
- 4) **Renz DM**, Herrmann KH, Kraemer M, Boettcher J, Waginger M, Krueger PC, Pfeil A, Streitparth F, Kentouche K, Gruhn B, Mainz JG, Stenzel M, Teichgraeber UK, Reichenbach JR, Mentzel HJ.
Ultrashort echo time MRI of the lung in children and adolescents: comparison with non-enhanced computed tomography and standard post-contrast T1w MRI sequences.
Eur Radiol 2022; 32(3): 1833-1842. Doi: 10.1007/s00330-021-08236-7. IF 5.3
- 5) **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.
Invest Radiol 2015; 50(10): 733-742. Doi: 10.1097/RLI.0000000000000178. IF 4.9

List of all Publications

Peer reviewed Original Publications (first or last author)

	IF = Impact Factor of the year of publication	IF
1.	Krueger MB, Werncke T, Eicke M, Schwerk N, Eckstein J, Huisinga C, Panknin C, Shin HO, Silchmüller FJ, Schultze-Florey RE, Hansen G, Wacker F, Hellms S, Renz DM . Photon-counting detector CT enables pediatric low-dose chest imaging with further reduction of radiation exposure. <i>Investigative Radiology</i> 2026; 61(5): 318-325.	7.0
2.	Hellms S, Werncke T, Böttcher J, Happel CM, Eckstein J, Krueger MB, Panknin C, Pfeil A, Kaireit TF, Beerbaum P, Vogel-Claussen J, Wacker F, Renz DM . Reduction of radiation exposure and preserved image quality using photon-counting detector cardiac computed tomography without electrocardiographic gating in children with congenital heart disease. <i>European Radiology</i> 2026; 36(1): 324-333.	4.7
3.	Pöhler GH, Voskrebenezv A, Heinze ML, Skeries V, Klimeš F, Glandorf J, Eckstein J, Babazade N, Wernz M, Pfeil A, Hansen G, Wacker FK, Vogel-Claussen J, Wetzke M, Renz DM . Phase-resolved functional lung MRI reveals distinct lung perfusion phenotype in children and adolescents with post-COVID-19 condition. <i>Radiology</i> 2025; 314(2): e241596. Endowed with the Publication Award of the Society for Pediatric Radiology 2025.	12.1

4. Eckstein J, Skeries V, Pöhler G, Babazade N, Kaireit T, Gutberlet M, Kornemann N, Hellms S, Pfeil A, Bucher AM, Hansmann G, Beerbaum P, Hansen G, Wacker F, Vogel-Claussen J, Wetzke M, **Renz DM**.
 Multiparametric cardiovascular MRI assessment of post-COVID syndrome in children in comparison to matched healthy individuals.
Investigative Radiology 2024; 59(6): 472-478. 7.0
5. Graeber SY*, **Renz DM***, Stahl M, Pallenberg ST, Sommerburg O, Naehrlich L, Berges J, Dohna M, Ringshausen FC, Doellinger F, Vitzthum C, Röhmel J, Allomba C, Hämmerling S, Barth S, Rückes-Nilges C, Wielpütz MO, Hansen G, Vogel-Claussen J, Tümmler B, Mall MA, Dittrich AM.
 Effects of Elexacaftor/Tezacaftor/Ivacaftor therapy on lung clearance index and magnetic resonance imaging in patients with cystic fibrosis and one or two +aF508del alleles. *Shared first authorship
Care Medicine 2022; 206(3): 311-320. 24.7
6. **Renz DM**, Herrmann KH, Kraemer M, Boettcher J, Waginger M, Krueger PC, Pfeil A, Streitparth F, Kentouche K, Gruhn B, Mainz JG, Stenzel M, Teichgraeber UK, Reichenbach JR, Mentzel HJ.
 Ultrashort echo time MRI of the lung in children and adolescents: comparison with non-enhanced computed tomography and standard post-contrast T1w MRI sequences.
European Radiology 2022; 32(3): 1833-1842. 5.3
7. **Renz DM**, Kümpel S, Böttcher J, Pfeil A, Streitparth F, Waginger M, Reichenbach JR, Teichgräber UK, Mentzel HJ.
 Comparison of unenhanced T1-weighted signal intensities within the dentate nucleus and the globus pallidus after serial applications of gadopentetate dimeglumine versus gadobutrol in a pediatric population.
Investigative Radiology 2018; 53(2): 119-127.
 Endowed with the **Arthur Schlossmann Prize** of the Saxon-Thuringian Society for Pediatric and Adolescent Medicine and Pediatric Surgery 2018. 6.1
8. Wernly B, Haumann S, Masyuk M, Muessig J, Lichtenauer M, Bäß L, Franz M, Pfeil A, Lauten A, Schulze PC, Hoppe UC, Kelm M, Westenfeld R, Jung C, **Renz D**.
 Extravascular lung water index and Halperin score to predict outcome in critically ill patients.
Wiener Klinische Wochenschrift 2018; 130(17-18): 505-510. 1.2
9. Tabori H, Jaudszus A, Arnold C, Mentzel HJ, Lorenz M, Michl RK, Lehmann T, **Renz DM***, Mainz JG*. *Shared last authorship
 Relation of ultrasound findings and abdominal symptoms obtained with the CFAbd-score in cystic fibrosis patients.
Scientific Reports 2017; 7(1): 17465. 4.1
10. Scholz O, Denecke T, Böttcher J, Schwarz C, Mentzel HJ, Streitparth F, Maurer MH, Pfeil A, Huppertz A, Mehl A, Staab D, Hamm B, **Renz DM**.
 MRI of cystic fibrosis lung manifestations: sequence evaluation and clinical outcome analysis.
Clinical Radiology 2017; 72(9): 754-763. 2.5

11. **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 fracture. **2.4**
Journal of Bone and Mineral Metabolism 2016; 34(1): 55-64.
Endowed with the **Third Publication Award of the Society for Pediatric Radiology 2016.**
12. **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. **4.9**
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): 733-742.
13. **Renz DM**, Durmus T, Böttcher J, Taupitz M, Diekmann F, Huppertz A, Pfeil A, Maurer MH, Streitparth F, Bick U, Hamm B, Fallenberg EM. **4.4**
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.
Investigative Radiology 2014; 49(7): 474-484.
14. Böttcher J*, **Renz DM***, Zahm DM, Pfeil A, Fallenberg EM, Streitparth F, Maurer MH, Hamm B, Engelken FJ. *Shared first authorship **3.0**
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 Oncologica 2014; 53(6): 759-768.
15. Fallenberg EM, Dromain C, Diekmann F, Engelken F, Krohn M, Singh JM, Ingold-Heppner B, Winzer KJ, Bick U, **Renz DM.** **4.0**
Contrast-enhanced spectral mammography versus MRI: initial results in the detection of breast cancer and assessment of tumour size.
European Radiology 2014; 24(1): 256-264.
Endowed with the **EUSOBI (European Society of Breast Imaging) Award for the most cited breast imaging paper published in European Radiology** in 2014; awarded at the EUSOBI Annual Meeting 2017 (Berlin)
16. Engelken F, Singh JM, Fallenberg EM, Bick U, Böttcher J, **Renz DM.** **1.6**
Volumetric breast composition analysis: reproducibility of breast percent density and fibroglandular tissue volume measurements in serial mammograms.
Acta Radiologica 2014; 55(1): 32-38.
17. Fallenberg EM, Dimitrijevic L, Diekmann F, Diekmann S, Kettritz U, Poellinger A, Bick U, Winzer KJ, Engelken F, **Renz DM.** **2.0**
Impact of magnification views on the characterization of microcalcifications in digital mammography.
Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren (RöFo) 2013; 186(3): 274-280.

18. 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. **2.2**
European Journal of Radiology 2013; 82(11): 1860-1869.
19. **Renz DM**, Diekmann F, Schmitzberger FF, Pietsch H, Fallenberg EM, Durmus T, Huppertz A, Böttcher J, Bick U, Hamm B, Lawaczeck R.
Pharmacokinetic approach for dynamic breast MRI to indicate signal intensity time curves of benign and malignant lesions by using the tumor flow residence time. **4.5**
Investigative Radiology 2013; 48(2): 69-78.
Endowed with the **Gustav Bucky Prize 2013** of the Berliner Röntgengesellschaft/ Röntgenvereinigung zu Berlin und Brandenburg e.V.
20. 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. **1.7**
Journal of Clinical Densitometry 2012; 15(2): 135-145.
21. **Renz DM**, Böttcher J, Diekmann F, Poellinger A, Maurer MH, 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. **2.6**
Journal of Magnetic Resonance Imaging 2012; 35(5): 1077-1088.
22. **Renz DM**, Röttgen R, Habedank D, Wagner M, Böttcher J, Pfeil A, Dietz R, Kivelitz D, Elgeti T.
New insights into peripartum cardiomyopathy using cardiac magnetic resonance imaging. **2.8**
Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren (RöFo) 2011; 183(9): 834-841.
23. **Renz DM**, Hahn HK, Schmidt P, Rexilius J, Lentschig M, Pfeil A, Sauner D, Fitzek C, Mentzel HJ, Kaiser WA, Reichenbach JR, Böttcher J.
Accuracy and reproducibility of a novel semi-automatic segmentation technique for MR volumetry of the pituitary gland. **2.8**
Neuroradiology 2011; 53(4): 233-244.
24. **Renz DM**, Böttcher J, Baltzer PA, Dietzel M, Vag T, Gajda M, Camara O, Runnebaum IB, Kaiser WA.
The contralateral synchronous breast carcinoma: a comparison of histology, localization, and magnetic resonance imaging characteristics with the primary index cancer. **4.9**
Breast Cancer Research and Treatment 2010; 120(2): 449-459.
25. **Renz DM**, Baltzer PA, Böttcher J, Thaher F, Gajda M, Camara O, Runnebaum IB, Kaiser WA.
Magnetic resonance imaging of inflammatory breast carcinoma and acute mastitis. A comparative study. **3.7**
European Radiology 2008; 18(11): 2370-2380.

26. **Renz DM**, Baltzer PA, Kullnig PE, Böttcher J, Vag T, Gajda M, Camara O, Runnebaum IB, Kaiser WA.
Klinische Wertigkeit computergestützter Analysen in der MR-Mammographie. Ein Vergleich zwischen zwei Systemen und drei Untersuchern mit unterschiedlicher Erfahrung.
Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren (RöFo) 2008; 180(11): 968-976. 1.6
This publication was integrated into a **meta-analysis** on the use of computer-assisted diagnostics in the interpretation of magnetic resonance imaging of the breast (Dorrius MD et al. Computer-aided detection in breast MRI: a systematic review and meta-analysis. *European Radiology* 2011; 21(8): 1600-1608).
27. **Renz DM**, Baltzer PA, Böttcher J, Thaher F, Gajda M, Camara O, Runnebaum IB, Kaiser WA.
Inflammatory breast carcinoma in magnetic resonance imaging: a comparison with locally advanced breast cancer. 2.0
Academic Radiology 2008; 15(2): 209-221.
28. Facius M*, **Renz DM***, Neubauer H, Böttcher J, Gajda M, Camara O, Kaiser WA. *Shared first authorship
Characteristics of ductal carcinoma in situ in magnetic resonance imaging. 0.8
Clinical Imaging 2007; 31(6): 394-400.

Peer reviewed Original Publications (co-author)

IF = Impact Factor of the year of publication

IF

1. Keymling MM, Kurz FT, Kuder TA, Bickelhaupt S, Hielscher T, Hog R, Mokry T, Alsady TM, Schott S, Kratz C, **Renz DM**, Schlemmer HP.
Optimizing whole-body MRI for early cancer detection in Li-Fraumeni syndrome: a prospective bicentric study. 4.7
European Radiology 2026; 36(4): 2401-2412.
2. Rothkamm MS, Maschke SK, Steinkasserer L, **Renz D**, Biermann AL, Radomsky L, Dütemeyer V, von Kaisenberg C, Hillemanns P, Brodowski L.
Balancing anatomical limits and dynamic adaptation: Understanding the determinants of successful vaginal breech delivery. 1.9
European Journal of Obstetrics & Gynecology and Reproductive Biology 2026; Mar 15; 30:100453. doi: 10.1016/j.eurox.2026. Epub ahead of print.
3. Bucher AM, Frodl E, Ehrengut C, Müller L, Emrich T, Kloeckner R, Sieren M, Sähn MJ, Fink MA, Móré D, Melekh B, Gottschling S, Meinel F, Schön H, Kornemann N, **Renz DM**, Lubina N, Wollny C, May MS, Siegler L, Borggreffe J, Meyer HJ, Surov A. 1.8
Prognostic value of CT-defined coronary sclerosis in COVID-19: results of a multicenter study based on the Weston score.
Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren (RöFo) 2026; 198(3): 340-348.

4. Hoffmann T, Teichgräber U, Lassen-Schmidt B, **Renz D**, Brüheim LB, Weise T, Krämer M, Böttcher J, Güttler F, Wolf G, Pfeil A.
AI-based HRCT quantification reveals DLCO and TLC as key determinants of ILD severity in connective tissue diseases. 4.7
***RMD Open* 2025 Oct 28; 11(4):e005963. doi: 10.1136/rmdopen-2025-005963. Epub ahead of print.**

5. Hoffmann T, Teichgräber U, Brüheim LB, Lassen-Schmidt B, **Renz D**, Weise T, Krämer M, Oelzner P, Böttcher J, Güttler F, Wolf G, Pfeil A.
The association of symptoms, pulmonary function test and computed tomography in interstitial lung disease at the onset of connective tissue disease: an observational study with artificial intelligence analysis of high-resolution computed tomography. 2.9
***Rheumatology International* 2025;45(9): 194.**

6. Härter V, Sängler B, Gieseke JC, Gerasimov T, Hoffmann B, Huisinga C, Karow A, Müntnich LJ, Palmaers NE, Paquet S, Penkert J, **Renz DM**, Ripperger T, Silchmüller FJ, Dutzmann CM, Kratz CP.
Model of care for individuals with rare cancer predisposition syndromes in Germany. 13.0
***The Lancet Regional Health: Europe* 2025 Jun 26; 56:101358. doi: 10.1016/j.lanepe.2025.101358. Epub ahead of print.**

7. Sturm MJ, von Kalle T, **Renz DM**, Klee D, Patsch J, Spieth S, Toso S, Stranzinger E, Mentzel HJ.
Artificial intelligence and teleradiology in pediatric radiology: a survey by the Society for German-speaking Pediatric Radiologists (GPR) and the Swiss Society for Pediatric Radiology (SGPR). 1.8
***Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren (RöFo)* 2025; 197(11): 1311-1318.**

8. Ubenauf TA, von der Born J, Sugianto RI, Grabitz C, Lehmann E, Memaran N, Kanzelmeyer N, Falk J, Babazade N, Sarikouch S, **Renz DM**, Schmidt BMW, Melk A. 4.2
Elevated septal native T1 time in cardiac magnetic resonance imaging suggesting myocardial fibrosis in young kidney transplant recipients.
***Journal of Cardiovascular Magnetic Resonance* 2025; 27(1): 101839.**

9. Maschke SK, Steinkasserer L, **Renz D**, von Kaisenberg C, Hillemanns P, Brodowski L. 1.7
Maternal and neonatal short-term outcome after vaginal breech delivery >36 weeks of gestation with and without MRI-based pelvimetric measurements: a Hannover retrospective cohort study.
***Journal of Perinatal Medicine* 2024; 53(3): 316-326**

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