

Team Radiologie Plus Forschungsbericht 2024

Team Radiologie Plus Forschung

Das Team Radiologie Plus verfügt nicht nur über eine ausgewiesene klinische Expertise, sondern zählt auch zahlreiche erfahrene medizinische Forscher in seinen Reihen.

Medizinische Forschung vertieft und erneuert das Fachwissen, erlaubt es, bei neuesten Entwicklungen am Ball der Zeit zu bleiben, wovon letztlich unsere Patienten massgeblich profitieren. Auch müssen Kliniken in der Schweiz, die Angebote im Bereich der hochspezialisierten Medizin abdecken, Forschungsproduktivität in diesen Domänen aufweisen können. Nur so kann ein kontinuierlich hoher medizinischer Standard in der hochspezialisierten Medizin gewährleistet werden. Daher lag es nahe, dass wir im Team Radiologie Plus eine Forschungsgruppe aufbauen. Aktuell werden Projekte im Bereich der Herz MRT, Bildgebung des zentralen Nervensystems, der Lunge und in der muskuloskelettalen Radiologie verfolgt. Die Themenbandbreite wird in naher Zukunft erweitert werden. Innerhalb der Spital Thurgau AG, aber auch ausserhalb der Arbeit im Team Radiologie Plus sind unsere Mitarbeiter gefragte Autoren wissenschaftlicher Manuskripte, präsentieren an Fachkonferenzen und sind eingeladene Redner.

Im Folgenden finden Sie eine Auflistung der Aktivitäten im Bereich Forschung und Lehre unserer Mitarbeiter in den vergangenen 12 Monaten.

Beteiligte Experten aus dem Team Radiologie Plus



Publikationen

1. Quantification of breast biopsy clip marker artifact on routine breast MRI sequences: a phantom study. Kremser C, Gruber L, Dietzel M, Amort B, **Santner W**, Daniaux M. Eur Radiol Exp. 2024 Nov 15;8(1):128
2. Correction for Mechanical Inaccuracies in a scanning Talbot-Lau interferometer. Noichl W, De Marco F, Willer K, Urban T, Frank M, Schick R, Gleich B, Hehn L, Gustschin A, Meyer P, Koehler T, Maack I, Engel KJ, Lundt B, Renger B, **Fingerle A**, Pfeiffer D, Rummeny E, Herzen J, Pfeiffer F. IEEE Trans Med Imaging. 2024 Jan;43(1):28-38.
3. Secondary endolymphatic hydrops in non hydropic temporal bone diseases, Frontiers in Neurology (in press) **Péporté ARJ**.
4. Heterotopic submandibular gland with herniation through the mylohyoid boutonnière: a unique radiological case. Eur Arch Otorhinolaryngol. **Péporté ARJ**, Moser AA, Wagner F. 2025 Apr;282(4):2173-2178.
5. Effect of Hemoglobin and Blood Glucose Levels on CT Perfusion Ischemic Core Estimation: A Post Hoc Analysis of the ESCAPE-NA1 Trial. Pensato U, Bosshart S, **Stebner A**, Rohr A, Kleinig TJ, Gupta R, Thomalla G, Heo JH, Goyal M, Demchuk AM, Hill MD, Ospel JM. Neurology. 2024 Nov 26;103(10):e209939.
6. Contrast-Induced Encephalopathy: A Case Series Analysis. **Stebner A**, Bosshart S, Hainc N, Nierobisch N, Zedde M, Pascarella R, Goyal M, Ospel J. Ann Indian Acad Neurol. 2024 Jul 1; 27(4):403-407.
7. Ergebnisse der FRONTIER Trial (Co-Autor): A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Determine the Efficacy and Safety of Intravenous NA-1 Initiated by Paramedics in the Field for Acute Cerebral Ischemia Within Three Hours of Symptom Onset, **Stebner A.** et al.
8. Prevalence of ipsilateral „vulnerable carotid plaques with <50 % stenosis“ on CT angiography in embolic stroke of undetermined source. Uchida K, Bosshart S, **Stebner A**, Almekhlafi MA, Demchuk AM, Ganesh A, Buck B, Poppe AY, Singh N, Marko M, Hill MD, Goyal M, Ospel JM. J Neurol Sci. 2024 Dec 15;467:123316.
9. Impact of Simulated Reduced-Dose Chest CT on Diagnosing Pulmonary T1 Tumors and Patient Management. Diagnostics 2024, 14, 1586, Peters, A.A.; Munz, J.; Klaus, J.B.; **Macek, A.**; Huber, A.T.; Obmann, V.C.; Alsaihati, N.; Samei, E.; Valenzuela, W.; Christe, A.
10. Lymph node inclusion in a modified osteomyocutaneous allograft for vascularized composite allotransplantation: establishment and assessment of feasibility in a pig model. on PRS Global Open.com soon. (Plastic and Reconstructive Surgery -Global Open), Hirsiger S., Lese I., Hoyos I.A., Zubler C., Haberthür D., Hlushchuk R., Djonov V., Banz Y., **Macek A.**, von Tengg-Kobligk H.
11. Hodler, J; **Duewell, S**: History Page: Leaders in MSK Radiology, Hans Rudolf Schinz (1891-1966). accepted for publication in Seminars in Musculoskeletal Radiology
12. Intradermal testing of iodinated contrast media: Should we test up to pure or with diluted compounds only? Fundam Clin Pharmacol. 2024 Aug; 38(4):789-798. doi: 10.1111/fcp.12998. Epub 2024 Mar 14. PMID: 38481365., **Schmid AA**, Hungerbühler MN, Lombardo P, Boehm IB.

13. Evaluating the effect of rapamycin treatment in Alzheimer's disease and aging using in vivo imaging: the ERAP phase IIa clinical study protocol. Svensson JE, Bolin M, Thor D, Williams PA, Brautaset R, Carlsson M, Sörensson P, Marlevi D, Spin-Neto R, **Probst M**, Hagman G, Morén AF, Kivipelto M, Plavén-Sigraý P. BMC Neurol. 2024 Apr 4;24(1):111. doi: 10.1186/s12883-024-03596-1.
14. Bilateral juvenile osteochondrosis dissecans in monozygotic twins: a case report. Bausch L, **Probst M**, Fritsch L, Mehl J, Siebenlist S, Willinger L. J Orthop Surg Res. 2024 Apr 1;19(1):208.
15. MRI-detected intraosseous bone marrow edema recedes after effective therapy of periodontitis. Schwarting J, Probst FA, Griesbauer M, Robl T, Burian E, Wiestler B, Brunner T, Malenova Y, Bumm C, Folwaczny M, **Probst M**. Eur Radiol. 2024 May;34(5):3115-3122.
16. Imaging of Peripheral Nerves: AJR Expert Panel Narrative Review. Nwawka OK, Adriaensen M, **Andreisek G**, Drakonaki EE, Lee KS, **Lutz AM**, Martinoli C, Nacey N, Symanski JS. AJR Am J Roentgenol. 2024 May 22. doi: 10.2214/AJR.24.31064.
17. Golden-angle radial sparse parallel (GRASP) magnetic resonance angiography (MRA) for endoleak evaluation after endovascular repair of the aorta: a prospective comparison to conventional time-resolved MRA. Almansour H, Mustafi M, Lescan M, **Grosse U**, Andic M, Schmehl J, Artzner C, Grözinger G, Walter SS. Quant Imaging Med Surg. 2024 Oct 1;14(10):7420-7432.
18. Dynamic Radial MR Imaging for Endoleak Surveillance after Endovascular Repair of Abdominal Aortic Aneurysms with Inconclusive CT Angiography: A Prospective Study. Almansour H, Mustafi M, Lescan M, **Grosse U**, Andic M, Schmehl J, Artzner C, Grözinger G, Walter SS. J Clin Med. 2024 May 15;13(10):2913.

Conference Abstracts

1. Challenges in AI-based Diagnostic Image Quality Assessment of Mammograms. T. Santner, M. Galijasevic, J. Stalheim, S. Frei, **W. Santner**, S. Gianolini, S. Hofvind, G. Widmann; RSNA 2024
2. Evaluation of 3D MRI for early detection of periapical lesions and associated maxillary sinus pathologies. **Burian E, Probst M, Lutz A**, Folwaczny M, **Andreisek G**. SCR 2024.
3. PD19-04 IMPACT OF NOVEL PATIENT-CENTERED PATHOLOGY REPORTS ON MEN UNDERGOING PROSTATE BIOPSY: THE PAPR RANDOMIZED CONTROLLED TRIAL RM Kumar, K Lajkosz, A Silberman, A Finelli, N Fleshner, R Hamilton, **Deniffel D**
4. Journal of Urology 211 (5S), e440. American Urological Association (AUA) Annual Meeting, San Antonio, TX, 2024; Kumar, R., **Deniffel D**. et al. „Characterizing the impact of novel patient-centered pathology reports: A randomized controlled trial of patients undergoing prostate biopsy.“ European Urology 85 (2024): S933-S934. EAU24 – 39th Annual EAU Congress, Paris, 2024
5. Deep learning STIR vs. Conventional STIR sequences in cardiac imaging: an image quality analysis. **J. Evers, M. Rasper, A. Lutz, C. Krautmacher, J. Brendle, A. Peporte, R. Srikantharajah, G. Andreisek**. SGR 2024
6. DETECTION OF NERVE INJURY OF THE LINGUAL AND THE INFERIOR ALVEOLAR NERVE BY USING DENTAL MRI. **Probst M**. 13.-15.06.2024 Freiburg 19th European Congress of Dentomaxillofacial Radiology
7. DENTAL MRI – A METHOD TO MONITOR PERIODONTAL EDEMA IN PATIENTS WITH PERIODONTAL DISEASE. **Probst M**. 13.-15.06.2024 Freiburg 19th European Congress of Dentomaxillofacial Radiology
8. DEEP LEARNING NETWORKS TOWARDS SEGMENTATION OF THE LOWER AND UPPER JAW. **Probst M**. 13.-15.06.2024 Freiburg 19th European Congress of Dentomaxillofacial Radiology

Eingeladene Vorträge

1. KI in der Senologie. 3-Länder-Treffen (ÖGUM, DEGUM, SGUM) 2024, Salzburg. **Santner W**.
2. Quantitative osteoporosis imaging – Automated vertebral body labeling and segmentation for opportunistic osteoporosis assessment in routine multi-detector computed tomography. 26.04.2024 DGMSR Jahrestagung. **Burian E**.
3. Detection of caries lesions using a water-sensitive stir sequence in dental MRI. 2024 EADMFR. **Burian E**.
4. Evaluation of 3D MRI for early detection of periapical lesions and associated maxillary sinus pathologies Poster SGR: periapical edema associated with mucosal thickening of the sinus maxillaris. **Burian E**. 2024 SGR.
5. Secondary endolymphatic hydrops in non hydropic temporal bone diseases. ECR 2024, **Péporté ARJ**

6. Review of the NI-RADS classification. ESHNR Malmö 2024 **Péporté ARJ**
7. CERF: imagerie des glandes salivaires, CERF: imagerie pré et postop chirurgie de la base du crâne, In Planung: QZ KSF 09/2024, Symposium ORL Ostschweiz 11/2024, **Péporté ARJ**
8. Imaging of secondary Hydrops in Non-Hydropic temporal Bone Diseases., ESR 2024. **Péporté ARJ**
9. How to level up in head and neck radiology: a guide to the ESHNR Diploma and mentoring program. ESHNR Webinar Dezember 2024. **Péporté ARJ**
10. Poster am SNIS 21st Annual Meeting in Colorado Springs 2024: Factors influencing the association between 24-hour national institutes of health stroke scale and 90-day modified ranking score in patients undergoing thrombectomy for large vessel occlusion stroke, **Stebner A.**
11. Auf dem Weg zur Notfalldiagnose – Bildgebung als Wegweiser oder Irrlicht? (S. Bochsler, M. Müller, J. Osterwalder). Ostschweizer Notfallsymposium, Stadtsaal Wil 7.3.2024, **Müller M.**
12. Vermehrte / verminderte Transparenz. Workshop am Kurs HRCT interstitielle Lungenerkrankungen, Universitätsspital Zürich, 08.02.2024, **Müller M.**
13. Lunge – ILD Kurs (P. Agarwal, L. Jungblut et al.), R3-Kongress Konstanz, 21.09.2024, **Müller M**
14. Then, Ekaterina: Wertigkeit des laparoskopischen Clippings der Vena ovarica bei Patientinnen mit Ovarialveneninsuffizienz und Varikose der unteren Extremitäten, Inaugural Dissertation Universität Zürich, **Duewell S.**
15. Vortrag dentale MRT <https://www.zm-online.de/news/detail/das-dentale-mrt-im-fokus-der-jahrestagung>. 13.-14.09.2024 58. Jahrestagung der AGBIZ in Münster. **Probst M.**
16. Dental MRT. 2024 FVDZ-Webtalk. **Probst M**, Schulze R (Freier Verband deutscher Zahnärzte e.V.)
17. SSSR Symposium, Frauenfeld 2024: Anatomy and MR neurography appearance of the brachial and lumbosacral plexus, **Lutz AM.**
18. SSSR Symposium, Frauenfeld 2024: Common pathologies of the lumbosacral plexus, **Lutz AM.**
19. R3 Imaging – Konstanz 2024, Pitfalls & häufige Fehler: Ellenbogen, **Lutz AM.**
20. SCR, Genf, 2024: Imaging of hand and wrist: Is that degenerative or inflammatory?, **Lutz AM.**
21. ESSR, Lugano 2024: Do not touch me lesions around the knee, **Lutz AM.**
22. Universität Zürich Lunch Symposium Radiologie 2024: MR Neurography – what are we actually looking for?, **Lutz AM.**
23. Stanford University, 2024: MR Neurography – what are we actually looking for?, **Lutz AM.**
24. Stanford University, 2024: How to interpret lumbar and brachial plexus scans, **Lutz AM.**

Poster

1. Early signs and slow progression of alveolar echinococcosis on an asymptomatic patient 12 years prior to the diagnosis. ESGAR Göteborg 2024 **Richter K.**
2. Lemierre syndrome: a comeback story. ESHNR2024, **Péporté ARJ.**
3. An „eye-opening“ approach to imaging in Horner Syndrome. SCR Genf 2024, **Péporté ARJ.**
4. Imaging in rapid progressive dementia, SCR Genf 2024, **Péporté ARJ.**
5. Poster und Brief communication auf der World Stroke Conference in Abu Dhabi 2024: **Stebner A**
6. Cost-effectiveness Analysis in Health Economics of Improved Reperfusion in Patients with Acute Ischemic Stroke, Think Tank: Calgary-Dutch Think Tank (CDTT), Calgary, Alberta, Canada 2024 **Stebner A**
7. Mobile Stroke Units (MSU), Think Tank: 5T, Banff, Alberta, Canada 2024. **Stebner A.**
8. Measuring Complications in the (Re-) Treatment of Unruptured Intracranial Aneurysms, Middle meningeal artery (MMA) embolization trials for chronic subdural hematoma, **Stebner A**
9. Rheumatoid Arthritis in the Wrists and Hands – What the Radiologist Should Know, SCR Genf 2024. **J. Evers, C. Guessoum, N. Antil, K. Stevens, G. Andreisek, A. Lutz**
10. Not All Erosions Are Created Equal – Arthritides Beyond Rheumatoid Arthritis SCR Genf 2024 **Guessoum C, Evers J, Antil N, Stevens K, Andreisek G, Lutz A.**
11. Breast ultrasound: key elements in performing, interpreting and reporting. SGR-SSR Genf 24/ Educational Poster. **W. Santner, M. Daniaux, B. Amort.**

Grants and Awards

1. Awarded at the SCR 2024 Geneva, Switzerland: Summa cum laude for the best radiological board exam 2023, **Stebner A**
2. Research grant der SGR-SSR für Forschung, Fort- und Weiterbildung 2024: Optimizing Imaging for Treatment-Eligible Stroke (ESCAPE-OPTIMUS), **Stebner A**
3. SNIS Travel Grant 2024 for SNIS 21st Annual Meeting Colorado Springs, Colorado, USA, **Stebner A**
4. Dr. Walter und Luise Freundlich-Stiftung Travel Grant 2024 for the World Stroke Conference (WSC) in Abu Dhabi, United Arab Emirates, **Stebner A**

Sonstiges

1. <https://www.handelsblatt.com/technik/medizin/inside-digital-health/siemens-healthineers-neues-mrt-geraet-fuer-die-zahnmedizin/29824924.html>
2. <https://noras.de/wp-content/uploads/2024/04/interview-dental-mrt-der-zukunft-hoehst-detailliert-dreidimensional-ohne-ionisierende-strahlung.pdf>



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