

Koautorenschaften seit der Habilitation im Jahre 2004

1. J. Böttcher, A. Malich, A. Pfeil, A. Petrovitch, G. Lehmann, J.P. Heyne, G. Hein, W.A. Kaiser: Digital X-ray Radiogrammetry (DXR) as a new method for measurement of bone mineral density in patients suffering from rheumatoid arthritis. Eur Radiol, 2004; 2004, 14: 631-7
2. J. Boettcher, A. Petrovitch, P. Soros, A. Malich, S. Hussein, W.A. Kaiser: Conjoined lumbosacral nerve roots: current aspects of diagnosis. Eur Spine J. 2004; 13: 147-51(ISSN: 0940-6719)
3. D. Fischer, P. Baltzer, A. Malich, S. Wurdinger, M.G. Freesmeyer, C. Marx, W.A. Kaiser: Is the "blooming sign" a promising additional tool to determine malignancy in MR mammography? Eur Radiol 2004 Mar;14(3):394-401 (ISSN: 0938-7994)
4. C. Marx, A. Malich, M. Facius, U. Grebenstein, D. Sauner, S.O.R. Pfeleiderer, W.A. Kaiser: Comparison of mammographically based diagnosis with and without using of CAD using a Double-blinded protocol. Eur J Radiol, 2004; 51: 66-72
5. A. Hansch, O. Frey, D. Sauner, M. Haas, A. Malich, R. Bräuer, I. Hilger, W.A. Kaiser: In vivo imaging of experimental arthritis with near-infrared fluorescence (NIRF). Arthritis and Rheumatism, 2004; 50: 961-7 (ISSN: 0004-3591)
6. J. Böttcher, A. Rott, D. Sauner, H. Kilian, A. Pfeil, A. Malich, A. Petrovitch, W.A. Kaiser: Diagnostischer Wert der Computertomografie in der Detektion viszeraler Gefäßmalformationen und deren hämodynamisch relevanten Ätiologie. Wehrmed. Mschr. 2004; 48: 42-45
7. S.O.R. Pfeleiderer, S. Sachse, D. Sauner, C. Marx, A. Malich, S. Wurdinger, W.A. Kaiser: Changes in MR-Mammography due to hormone replacement therapy. Breast cancer research; 2004; 6: 232-238(ISSN: 1465-542X)
8. J. Böttcher, A. Pfeil, G. Lehmann, A. Malich, A. Hansch, B. Heinrich, A. Petrovitch, H.J. Mentzel, G. Hein, W.A. Kaiser: Differenzierung zwischen kortikoidinduzierten Osteopenien und periartikulärer Demineralisation mittels digitaler Radiographie (DXR) bei Patienten mit rheumatoider Arthritis. Z Rheumatol. 2004 Dec;63(6):473-82. (ISSN: 0340-1855)
9. A. Hansch, O. Frey, I. Hilger, D. Sauner, M. Haas, D. Schmidt, C. Kurrat, M. Gajda, A. Malich, R. Bräuer, W.A. Kaiser: Diagnosis of arthritis using near-infrared fluorochrome Cy5.5 Investigative Radiology; 2004: 2004 Oct;39(10):626-32. (ISSN: 0020-9996)
10. J. Böttcher, A. Pfeil, A. Rosholm, A. Malich, A. Petrovitch, B. Heinrich, G. Lehmann, G. Hein, W. Linss, W. A. Kaiser Influence of image capturing parameters on Digital X-ray Radiogrammetry. J Clin Dens. 2005; 8: 87-94
11. J. Böttcher, A. Pfeil, F. Teufl, A. Petrovitch, G. Lehmann, A. Kramer, H.-J. Mentzel, A. Hansch, A. Malich, G. Hein, W. A. Kaiser: Einfluss der Körperkonstitution

auf die mittels Digitaler Radiogrammetrie evaluierte Knochenmineraldichte. *Rofo Fortschr Geb Rontgenstr Neuen Bildgeb Verfahr*, 2005; 177: 197-203

12. J. Böttcher, A. Pfeil, B. Heinrich, G. Lehmann, A. Petrovitch, A. Hansch, J.P. Heyne, A. Malich, G. Hein, W.A. Kaiser. Digital radiogrammetry as a new osteodensitometric technique and diagnostic tool in rheumatoid arthritis. *Rheumatology Int.* 2005 Mar 11 (Epub ahead of print)

13. D.R.Fischer, S. Wurdinger, J. Boettcher A. Malich, W.A.Kaiser: Further signs in the evaluation of magnetic resonance mammography: A retrospective study. *Invest. Radiol.* 2005; 40: 430-5 (ISSN: 0020-9996)

14. H.J. Mentzel, K. Wuensche, A. Malich, J. Boettcher, S. Vogt, W.A.Kaiser: Einfluss der sportlichen Aktivität auf die Knochendichte. *Rofo.* 2005. 177: 524-9 (ISSN: 1438-9029)

15. Hansch A, Sauner D, Hilger I, Bottcher J, Malich A, Frey O, Brauer R, Kaiser WA.: Autofluorescence spectroscopy in whole organs with a mobile detector system. *Acad Radiol.* 2004 Nov;11(11):1229-36. (ISSN: 1076-6332)

16. Mentzel HJ, John U, Boettcher J, Malich A, Pfeil A, Vollandt R, Misselwitz J, Kaiser WA. Evaluation of bone-mineral density by digital X-ray radiogrammetry (DXR) in pediatric renal transplant recipients. *Pediatr Radiol.* 2005; 35(5):489-94. (ISSN: 0301-0449)

17. D. Fischer, A. Malich, S. Wurdinger, J. Boettcher, M. Dietzel, W.A. Kaiser: the adjacent vessel on dynamic contrast-enhanced breast MRI. *AJR Am J Roentgenol.* 2006 Aug;187(2):W147-51. (ISSN: 1546-3141)

18. Boettcher J; Pfeil A; Rosholm A; Malich A; Petrovitch A; Heinrich B; Lehmann G; Mentzel HJ; Hein G; Linss W; Kaiser WA: Influence of image-capturing parameters on digital X-ray radiogrammetry. *J Clin Densitom* 2005 Spring;8(1):87-94 (ISSN: 1094-6950)

19. Boettcher J; Pfeil A; Teufl F; Petrovitch A; Lehmann G; Kramer A; Mentzel HJ; Hansch A; Malich A; Hein G; Kaiser WA: [Influence of body constitution on bone mineral density measured by digital radiogrammetry] [Einfluss der Körperkonstitution auf die mittels digitaler Radiogrammetrie evaluierte Knochenmineraldichte.] *Rofo* 2005 Feb;177(2):197-203 (ISSN: 1438-9029)

20. Mentzel HJ, Blume J, Boettcher J, Lehmann G, Tuchscherer D, Pfeil A, Kramer A, Malich A, Kauf E, Hein G, Kaiser WA: the potential of digital X-ray radiogrammetry (DXR) in the assessment of osteopenia in children with chronic inflammatory bowel disease. *Pediatr Radiol* 2006; 36: 415-420 (ISSN: 0301-0449)

21. Pfeil A, Boettcher J, Mentzel HJ, Lehmann G, Schafer ML, Kramer A, Petrovitch A, Seidl BE, malich A, Hein G, Wolf G, Kaiser WA: Multi-Site quantitative ultrasound compared to dual energy X-ray absorptiometry in rheumatoid arthritis: effect of body mass index and inflamed soft tissue of reproducibility. *Rheumatol Int.* 2006; Oct;26(12):1084-90 (ISSN: 0172-8172)

22. Boettcher J, Pfeil A, Schafer ML, Petrovitch A, Seidl BE, Mentzel HJ, Lehmann G, Malich A, Heyne JP, Hein G, Wolf G, Kaiser WA.: Normative data for digital X-ray radiogrammetry from a female and male German cohort. *J Clin Densitom.* 2006 Jul-Sep;9(3):341-50. (ISSN: 1094-6950)
23. Boettcher J, Pfeil A, Rosholm A, Schafer ML, Malich A, Petrovitch A, Seidl B, Lehmann G, Mentzel HJ, Hein G, Wolf G, Kaiser WA.: Computerized Digital Imaging Techniques Provided by Digital X-ray Radiogrammetry as New Diagnostic Tool in Rheumatoid Arthritis. *J Digit Imaging.* 2006 Sep;19(3):279-88. (ISSN: 0897-1889)
24. Boettcher J, Pfeil A, Mentzel H, Kramer A, Schafer ML, Lehmann G, Eidner T, Petrovitch A, Malich A, Hein G, Kaiser WA.: Peripheral bone status in rheumatoid arthritis evaluated by digital X-ray radiogrammetry and compared with multisite quantitative ultrasound. *Calcif Tissue Int.* 2006 Jan;78(1):25-34. (ISSN: 0171-967X)
25. Boettcher J, Pfeil A, Rosholm A, Soros P, Petrovitch A, Schaefer ML, Seidl BE, Malich A, Hansch A, Wolf G, Kaiser WA.: Computerized quantification of joint space narrowing and periarticular demineralization in patients with rheumatoid arthritis based on digital x-ray radiogrammetry. *Invest Radiol.* 2006 Jan;41(1):36-44. (ISSN: 0020-9996)
26. Boettcher J, Pfeil A, Rosholm A, Petrovitch A, Seidl BE, Malich A, Schafer ML, Kramer A, Mentzel HJ, Lehmann G, Hein G, Kaiser WA. Digital X-ray radiogrammetry combined with semiautomated analysis of joint space widths as a new diagnostic approach in rheumatoid arthritis: a cross-sectional and longitudinal study. *Arthritis Rheum.* 2005 Dec;52(12):3850-9. (ISSN: 0004-3591)
27. Boettcher J, Pfeil A, Heinrich B, Lehmann G, Petrovitch A, Hansch A, Heyne JP, Mentzel HJ, Malich A, Hein G, Kaiser WA.: Digital radiogrammetry as a new diagnostic tool for estimation of disease-related osteoporosis in rheumatoid arthritis compared with pQCT. *Rheumatol Int.* 2005 Aug;25(6):457-64. (ISSN: 0172-8172)
28. Klein U; Laubinger R; Malich A; Hapich A; Gunkel W: [Emergency treatment of thoracic trauma] [Erstversorgung bei Thoraxtrauma.] *Anaesthesist* 2006 Nov;55(11):1172-88 (ISSN: 0003-2417)
29. Pfeil A; Schafer ML; Lehmann G; Seidl BE; Eidner T; Malich A; Renz DM; Oelzner P; Hansch A; Wolf G; Hein G; Kaiser WA; Bottcher J: Implementation of Z-scores as an age- and sex-independent parameter for estimating joint space widths in rheumatoid arthritis. *J Rheumatol* 2009 Apr;36(4):717-23J (ISSN: 0315-162X)
30. Mainz JG; Sauner D; Malich A; John S; Beyermann H; Mentzel HJ; Kaiser WA; Zintl F: Cross-sectional study on bone density-related sonographic parameters in children with asthma: correlation to therapy with inhaled corticosteroids and disease severity. *J Bone Miner Metab* 2008;26(5):485-92 (ISSN: 0914-8779)
31. Pfeil A; Haugeberg G; Hansch A; Renz DM; Lehmann G; Malich A; Wolf G; Bottcher J: Value of digital X-ray radiogrammetry in the assessment of inflammatory bone loss in rheumatoid arthritis [In Process Citation] *Arthritis Care Res (Hoboken)* 2011 May;63(5):666-74 (ISSN: 2151-4658)

32. Pfeil A; Haugeberg G; Hansch A; Renz DM; Lehmann G; Malich A; Wolf G; Boettcher J: The value of digital X-ray radiogrammetry in the assessment of inflammatory bone loss in rheumatoid arthritis [epub ahead of print] [Record Supplied By Publisher] *Arthritis Care Res (Hoboken)* 2011 Jan 4; p S2151-4658
33. Pfeil A; Sommerfeld J; Frober R; Lehmann G; Malich A; Hansch A; Wolf G; Boettcher J: Feasibility study of semi-automated measurements of finger joint space widths [epub ahead of print] [Record Supplied By Publisher] *Rheumatol Int* 2010 Apr 17; p S1437-160X
34. H. Mentzel, J. Mainz, M. Schäfer, A. Malich, J. Boettcher & W. A. Kaiser : Peripheral Bone Status In Children With Asthma Evaluated By Digital X-Ray Radiogrammetry . *The Internet Journal of Radiology*. 2006 Volume 5 Number 1
35. Pfeil A, Betge S, Poehlmann G, Boettcher J, Drescher R, Malich A, Wolf G, Mentzel HJ, Hansch A.:Magnetic resonance VIBE venography using the blood pool contrast agent gadofosveset trisodium-An interrater reliability study. *Eur J Radiol*. 2011 Feb 22. [Epub ahead of print]
36. Marx C; Malich A; Facius M; Grebenstein U; Sauner D; Pfeleiderer SO; Kaiser WA Are unnecessary follow-up procedures induced by computer-aided diagnosis (CAD) in mammography? Comparison of mammographic diagnosis with and without use of CAD. *Eur J Radiol* 2004 Jul;51(1):66-72 (ISSN: 0720-048X)
37. Boettcher J; Malich A; Pfeil A; Petrovitch A; Lehmann G; Heyne JP; Hein G; Kaiser WA Potential clinical relevance of digital radiogrammetry for quantification of periarticular bone demineralization in patients suffering from rheumatoid arthritis depending on severity and compared with DXA. *Eur Radiol* 2004 Apr;14(4):631-7 (ISSN: 0938-7994)
38. Mentzel HJ, Malich A, Kunze C, Kramer A, Pfeil A, Böttcher J, Spielmann RP, Kaiser WA: Digitale Radiogrammetrie (DXR) referenzwerte der Knochenmineraldichte für Kinder und Jugendliche. *Monatsschr Kinderheilkd* 2007 155:16-22
39. Pfeil A, Hansch A, Sommerfeld J, Fröber R, Renz DM, Lehmann G, Malich A, Wolf G, Böttcher J.: Reproducibility and influence of hand rotation on computer-aided joint space analysis. *Joint Bone Spine*. 2011 Sep 30. [Epub ahead of print]. PMID: 21963809
40. Pfeil A, Sommerfeld J, Fröber R, Lehmann G, Malich A, Hansch A, Wolf G, Böttcher J.: Feasibility study of semi-automated measurements of finger joint space widths. *Rheumatol Int*. 2011 Oct;31(10):1349-54. Epub 2010 Apr 17. PMID: 20401484
41. Dellios N, Teichgraeber U, Chelaru R, Malich A, Papageorgiou IE.: Computer-aided Detection Fidelity of Pulmonary Nodules in Chest Radiograph. *J Clin Imaging Sci*. 2017 Feb 20;7:8. doi: 10.4103/jcis.JCIS_75_16. eCollection 2017. PMID:28299236

42. Renz DM, Malich A, Ulrich A, Pfeil A, Mentzel HJ, Streitparth F, Maurer MH, Teichgräber UK, Böttcher J.: J Bone Miner Metab. 2016 Jan;34(1):55-64. doi: 10.1007/s00774-014-0641-3. Epub 2015 Feb 17. PMID: 25687428
43. Pfeil A, Renz DM, Fröber R, Hansch A, Lehmann G, Sommerfeld J, Malich A, Wolf G, Böttcher J.: Influence of angulation on metacarpal bone mineral density measurements using digital X-ray radiogrammetry. Int J Comput Assist Radiol Surg. 2015 May;10(5):587-92. doi: 10.1007/s11548-014-1076-y. Epub 2014 Jul 3. PMID:24989966
44. 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. Eur J Radiol. 2013 Nov;82(11):1860-9. doi: 10.1016/j.ejrad.2013.06.013. Epub 2013 Aug 7. PMID:23932636
45. Pfeil A, Renz DM, Hansch A, Kainberger F, Lehmann G, Malich A, Wolf G, Böttcher J.: The usefulness of computer-aided joint space analysis in the assessment of rheumatoid arthritis. Joint Bone Spine. 2013 Jul;80(4):380-5. doi: 10.1016/j.jbspin.2012.10.022. Epub 2012 Dec 12. PMID:23245655
46. 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. J Clin Densitom. 2012 Apr-Jun;15(2):135-45. doi: 10.1016/j.jocd.2011.08.006. PMID: 22560013
47. Hansch A, Kohlmann P, Hinneburg U, Boettcher J, Malich A, Wolf G, Laue H, Pfeil A.: Quantitative evaluation of MR perfusion imaging using blood pool contrast agent in subjects without pulmonary diseases and in patients with pulmonary embolism. Eur Radiol. 2012 Aug;22(8):1748-56. doi: 10.1007/s00330-012-2428-z. Epub 2012 Apr 1. PMID:22466513
48. Pfeil A, Hansch A, Sommerfeld J, Fröber R, Renz DM, Lehmann G, Malich A, Wolf G, Böttcher J.: Reproducibility and influence of hand rotation on computer-aided joint space analysis. Joint Bone Spine. 2012 Jul;79(4):384-8. doi: 10.1016/j.jbspin.2011.07.011. Epub 2011 Oct 2. PMID: 21963809
49. Pfeil A, Haugeberg G, Hansch A, Renz DM, Lehmann G, Malich A, Wolf G, Böttcher J.: Value of digital X-ray radiogrammetry in the assessment of inflammatory bone loss in rheumatoid arthritis. Arthritis Care Res (Hoboken). 2011 May;63(5):666-74. doi: 10.1002/acr.20423. No abstract available. PMID:21557522
50. Pfeil A, Betge S, Poehlmann G, Boettcher J, Drescher R, Malich A, Wolf G, Mentzel HJ, Hansch A. Magnetic resonance VIBE venography using the blood pool contrast agent gadofosveset trisodium--an interrater reliability study. Eur J Radiol. 2012 Mar;81(3):547-52. doi: 10.1016/j.ejrad.2011.01.102. Epub 2011 Feb 23. PMID:21349675
- 51: Hentschel B, Oehler W, Strauss D, Ulrich A, Malich A. Definition of the CTV prostate in CT and MRI by using CT-MRI image fusion in IMRT planning for prostate

cancer. *Strahlenther Onkol.* 2011 Mar;187(3):183-90. doi: 10.1007/s00066-010-2179-1. Epub 2011 Feb 24. PMID:21347638

52. Pfeil A, Sommerfeld J, Fröber R, Lehmann G, Malich A, Hansch A, Wolf G, Böttcher J.: Feasibility study of semi-automated measurements of finger joint space widths. *Rheumatol Int.* 2011 Oct;31(10):1349-54. doi: 10.1007/s00296-010-1468-4. Epub 2010 Apr 17. PMID:20401484

53. Pfeil A, Schäfer ML, Lehmann G, Seidl BE, Eidner T, Malich A, Renz DM, Oelzner P, Hansch A, Wolf G, Hein G, Kaiser WA, Böttcher J.: Implementation of Z-scores as an age- and sex-independent parameter for estimating joint space widths in rheumatoid arthritis. *J Rheumatol.* 2009 Apr;36(4):717-23. doi: 10.3899/jrheum.080651. Epub 2009 Mar 13. PMID:19286851

54. Pfeil A., Malich A et al.: Inhibition of periarticular bone loss is associated with clinical remission and ACR70-Response in rheumatoid arthritis. *Arthritis Care & Research*, submitted