



Curriculum Vitae

Personal information **Michael Denking**

Work experience

1. Employer: Ev. Diakoniekrankenhaus Freiburg
 - Start date: 012004
 - End date: 062006
 - Position: Resident physician in training
 - Activities: Resident physician in training with a Focus on internal medicine and gastroenterology including intensive care
 - Country: Germany
2. Employer: Agaplesion Bethesda Ulm, Ulm University
 - Start date: 072006
 - End date: 082009
 - Position: Resident physician in training and research fellow (50/50)
 - Activities: Resident physician in training with a focus on internal medicine and Geriatric medicine and half Research fellow with a focus on Geriatric medicine (assessment, mobility, frailty, fear of falling)
 - Country: Germany
3. Employer: Kreisspitalstiftung Weißenhorn Donauklinik
 - Start date: 092009
 - End date: 042011
 - Position: Resident physician in training
 - Activities: Resident physician in training with a focus on internal medicine
 - Country: Germany
4. Employer: Agaplesion Bethesda Ulm, Ulm University
 - Start date: 052011
 - End date: 032013
 - Position: Consultant Internal Medicine/ Geriatric Medicine
 - Activities: Consultant physician with a focus on internal medicine and Geriatric medicine and half research fellow with a focus on Geriatric medicine (assessment, mobility, frailty, polypharmacy)
 - Country: Germany
5. Employer: Ulm University
 - Start date: 042014
 - End date: 092014
 - Position: Research Fellow Else_Kröner Fresenius
 - Activities: immunology and stem cell Research at the lab of Hartmut Geiger, Ulm
 - Country: Germany
6. Employer: Agaplesion Bethesda Ulm, Ulm University
 - Start date: 092014
 - End date:
 - Position: Head of Dept. Geriatric Hospital and Assoc. Professor Ulm University
 - Activities: Head of Dept. of an internal medicine/ geriatric medicine hospital and assoc. professor for geriatric research and teaching at Ulm University
 - Country: Germany
7. Employer: Ulm University Medical Center
 - Start date: 012021
 - End date:
 - Position: Head of the Institute
 - Activities: associated with appointment as full professor (see below)
 - Country: Germany

Education and training

1. Subject: University of Freiburg
 - Start date: 091996
 - End date: 102003
 - Qualification: Staatsexamen
 - Organisation: medical studies including one year immunology Research at Case Western Reserve University Cleveland, Ohio which led to an MD (medical doctorate) at the Dept. of Pathology, University of Freiburg
 - Country: Germany
2. Subject: Agaplesion Bethesda Ulm, Ulm University
 - Start date: 072006
 - End date: 062012
 - Qualification: Habilitation/Postdoctorate Qualif. (German System)
 - Organisation: Continuous (on/off) Research Scholarship by the Robert Bosch Foundation for Geriatric Medicine and Science
 - Country: Germany
3. Subject: Medical Faculty Ulm University
 - Start date: 062015
 - End date: 122020
 - Qualification: Associate Professor
 - Organisation: geriatric research and teaching at Ulm University

- Country: Germany
4. Subject: Medical Faculty Ulm University
- Start date: 012021
 - End date:
 - Qualification: Full Professor
 - Organisation: geriatric research and teaching at Ulm University
 - Country: Germany

Additional information

Publications

for further publications see: <https://pubmed.ncbi.nlm.nih.gov/?term=Denkinger+M+%5Bauthor%5D&sort=date+1>: Seppala LJ, Petrovic M, Ryg J, Bahat G, Topinkova E, Szczerbinska K, van der Cammen TJM, Hartikainen S, Ilhan B, Landi F, Morrissey Y, Mair A, Gutiérrez_Valencia M, Emmelot_Vonk MH, Mora MÁC, Denkinger M, Crome P, Jackson SHD, Correa_Pérez A, Knol W, Soulis G, Gudmundsson A, Ziery G, Wehling M, O'Mahony D, Cherubini A, van der Velde N. STOPPFall (Screening Tool of Older Persons Prescriptions in older adults with high fall risk): a Delphi study by the EuGMS Task and Finish Group on Fall_Risk_Increasing Drugs. Age Ageing. 2020 Dec 22;afaa249. doi: 10.1093/ageing/afaa249. Epub ahead of print. PMID: 33349863. 2: Makan AM, Hout HV, Onder G, van der Roest H, Finne_Soveri H, Topinková E, Denkinger M, Gindin J, van Marum R. Pharmacological management of osteoporosis in nursing home residents: the Shelter study. Maturitas. 2021 Jan;143:184_189. doi: 10.1016/j.maturitas.2020.10.020. Epub 2020 Nov 2. PMID: 33308627. 3: Elsayed M, Abdel_Kahaar E, Gahr M, Connemann BJ, Denkinger M, Schönfeldt_Lecuona C. Arrhythmias related to antipsychotics and antidepressants: an analysis of the summaries of product characteristics of original products approved in Germany. Eur J Clin Pharmacol. 2020 Nov 23. doi: 10.1007/s00228_020_03049_x. Epub ahead of print. PMID: 33230596. 4: Giovannini S, Onder G, van der Roest HG, Topinkova E, Gindin J, Cipriani MC, Denkinger MD, Bernabei R, Liperoti R; SHELTER Study Investigators. Use of antidepressant medications among older adults in European long_term care facilities: a cross_sectional analysis from the SHELTER study. BMC Geriatr. 2020 Aug 27;20(1):310. doi: 10.1186/s12877_020_01730_5. PMID: 32854659; PMCID: PMC7457305. 5: Siviero P, Limongi F, Gesmundo A, Zambon S, Cooper C, Dennison EM, Edwards MH, van der Pas S, Timmermans EJ, van Schoor NM, Schaap LA, Dallmeier D, Denkinger MD, Peter R, Castell MV, Otero Á, Pedersen NL, Deeg DJ, Maggi S; EPOSA Research Group. Factors associated with functional decline in hand and hip/knee osteoarthritis after a year's time: Data from the eposa study. Arthritis Care Res (Hoboken). 2020 Aug 8. doi: 10.1002/acr.24404. Epub ahead of print. PMID: 32770733. 6: Pazan F, Petrovic M, Cherubini A, Onder G, Cruz_Jentoft AJ, Denkinger M, van der Cammen TJM, Stevenson JM, Ibrahim K, Rajkumar C, Bakken MS, Baeyens JP, Crome P, Frühwald T, Gallagher P, Gudmundsson A, Knol W, O'Mahony D, Pilotto A, Rönnemaa E, Serra_Rexach JA, Soulis G, van Marum RJ, Ziery G, Mair A, Burkhart H, Neumann_Podczaska A, Wiczorowska_Tobis K, Fernandes MA, Gruner H, Dallmeier D, Beuscart JB, van der Velde N, Wehling M. Current evidence on the impact of medication optimization or pharmacological interventions on frailty or aspects of frailty: a systematic review of randomized controlled trials. Eur J Clin Pharmacol. 2020 Aug 7. doi: 10.1007/s00228_020_02951_8. Epub ahead of print. PMID: 32770278. 7: Weinmayr G, Schulz H, Klenk J, Denkinger M, Duran_Tauleria E, Koenig W, Dallmeier D, Rothenbacher D; ActiFE Study Group. Association of lung function with overall mortality is independent of inflammatory, cardiac, and functional biomarkers in older adults: the ActiFE study. Sci Rep. 2020 Jul 17;10(1):11862. doi: 10.1038/s41598_020_68372_w. PMID: 32681112; PMCID: PMC7367870. 8: Tully MA, McMullan I, Blackburn NE, Wilson JJ, Bunting B, Smith L, Kee F, Deidda M, Giné_Garriga M, Coll_Planas L, Dallmeier D, Denkinger M, Rothenbacher D, Caserotti P. Sedentary behavior, physical activity, and mental health in older adults: An isomorph substitution model. Scand J Med Sci Sports. 2020 Oct;30(10):1957_1965. doi: 10.1111/sms.13762. Epub 2020 Jul 28. PMID: 32643826. 9: Bollig C, Torbahn G, Bauer J, Brefka S, Dallmeier D, Denkinger M, Eidam A, Klöppel S, Zeyfang A, Voigt_Radloff S; MedQoL_Group (Medication and Quality of Life in frail older persons). Evidence gap on antihyperglycemic pharmacotherapy in frail older adults : A systematic review. Z Gerontol Geriatr. 2020 Apr 17. English. doi: 10.1007/s00391_020_01724_3. Epub ahead of print. PMID: 32303827. 10: Gerhard T, Mayer K, Braisch U, Dallmeier D, Jamour M, Klaus J, Seufferlein T, Denkinger M. Validierung des Geriatrie_Checks zur Identifikation geriatrischer Patienten in der Notaufnahme [Validation of the geriatric_check for identification of geriatric patients in emergency departments]. Z Gerontol Geriatr. 2020 Feb 28. German. doi: 10.1007/s00391_020_01699_1. Epub ahead of print. PMID: 32112273. 11: Giné_Garriga M, Sansano_Nadal O, Tully MA, Caserotti P, Coll_Planas L, Rothenbacher D, Dallmeier D, Denkinger M, Wilson JJ, Martin_Borràs C, Skjødt M, Ferri K, Farche AC, McIntosh E, Blackburn NE, Salvà A, Roqué_I_Figuls M. Accelerometer_Measured Sedentary and Physical Activity Time and Their Correlates in European Older Adults: The SITLESS Study. J Gerontol A Biol Sci Med Sci. 2020 Sep 16;75(9):1754_1762. doi: 10.1093/gerona/glaa016. PMID: 31943000; PMCID: PMC7494025. 12: Voigt_Radloff S, Bollig C, Torbahn G, Denkinger M, Bauer J. Maßnahmen zur Optimierung von Medikamentenverordnungen für ältere Menschen in Pflegeeinrichtungen [Interventions to optimise prescribing for older people in care homes]. Z Gerontol Geriatr. 2020 Feb;53(1):37_43. German. doi: 10.1007/s00391_019_01673_6. PMID: 31863168. 13: Klenk J, Peter RS, Rapp K, Dallmeier D, Rothenbacher D, Denkinger M, Büchele G; ActiFE Study Group. Correction to: Lazy Sundays: role of day of the week and reactivity on objectively measured physical activity in older people. Eur Rev Aging Phys Act. 2019 Dec 5;16:22. doi: 10.1186/s11556_019_0232_3. Erratum for: Eur Rev Aging Phys Act. 2019 Oct 27;16:18. PMID: 31844465; PMCID: PMC6896255. 14: Denkinger M. Differenzialtherapie im Alter am Beispiel der Arteriellen Hypertonie. Drug Res (Stuttg). 2019 Nov;69(S 01):S24_S25. German. doi: 10.1055/a_0982_5166. Epub 2019 Nov 15. PMID: 31731309. 15: Klenk J, Peter RS, Rapp K, Dallmeier D, Rothenbacher D, Denkinger M, Büchele G; ActiFE Study Group, Becker T, Böhm B, Scharfetter_Kochanek K, Stingl J, Koenig W, Riepe M, Peter R, Geiger H, Ludolph A, von Arnim C, Nagel G, Weinmayr G, Steinacker JM, Laszlo R. Lazy Sundays: role of day of the week and reactivity on objectively measured physical activity in older people. Eur Rev Aging Phys Act. 2019 Oct 27;16:18. doi: 10.1186/s11556_019_0226_1. Erratum in: Eur Rev Aging Phys Act. 2019 Dec 5;16:22. PMID: 31673299; PMCID: PMC6815398. 16: Siviero P, Veronese N, Smith T, Stubbs B, Limongi F, Zambon S, Dennison EM, Edwards M, Cooper C, Timmermans EJ, van Schoor NM, van der Pas S, Schaap LA, Denkinger MD, Peter R, Herbolzheimer F, Otero Á, Castell MV, Pedersen NL, Deeg DJH, Maggi S; EPOSA Research Group. Association Between Osteoarthritis and Social Isolation: Data From the EPOSA Study. J Am Geriatr Soc. 2020 Jan;68(1):87_95. doi: 10.1111/jgs.16159. Epub 2019 Sep 17. PMID: 31529624; PMCID: PMC6954097. 17: Denkinger MD, Dallmeier D. In Reply. Dtsch Arztebl Int. 2019 May 10;116(19):346. doi: 10.3238/arztebl.2019.0346b. PMID: 31288915; PMCID: PMC6630171. 1: Jonkman NH, Colpo M, Klenk J, Todd C, Hoekstra T, Del Panta V, Rapp K, van Schoor NM, Bandinelli S, Heymans MW, Mauder D, Cattalani L, Denkinger MD, Rothenbacher D, Helbostad JL, Vereijken B, Maier AB, Pijnappels M. Development of a clinical prediction model for the onset of functional decline in people aged 65_75 years: pooled analysis of four European cohort studies. BMC Geriatr. 2019 Jun 27;19(1):179. doi: 10.1186/s12877_019_1192_1. PubMed PMID: 31248370. 2: Coll_Planas L, Blancafort Alias S, Tully M, Caserotti P, Giné_Garriga M, Blackburn N, Skjødt M, Wirth K, Deidda M, McIntosh E, Rothenbacher D, Gallardo Rodríguez R, Jerez_Roig J, Sansano_Nadal O, Santiago M, Wilson J, Guerra_Balic M, Martín_Borràs C, Gonzalez D, Lefebvre G, Denkinger M, Kee F, Salvà Casanovas A, Roqué_I_Figuls M; SITLESS group. Exercise referral schemes enhanced by self_management strategies to reduce sedentary behaviour and increase physical activity among community_dwelling older adults from four European countries: protocol for the process evaluation of the SITLESS randomised controlled trial. BMJ Open. 2019 Jun 14;9(6):e027073. doi: 10.1136/bmjopen_2018_027073. PubMed PMID: 31203243. 3: Siviero P, Limongi F, Gesmundo A, Zambon S, Cooper C, Dennison EM, Edwards MH, Timmermans EJ, van der Pas S, Schaap LA, van Schoor NM, Denkinger MD, Herbolzheimer F, Peter R, Castell MV, Otero Á, Queipo R, Pedersen NL, Deeg DJH, Maggi S; EPOSA Research Group. Minimal clinically important decline in physical function over one year: EPOSA study. BMC Musculoskelet Disord. 2019 May 17;20(1):227. doi: 10.1186/s12891_019_2593_1. PubMed PMID: 31101033; PubMed Central PMCID: PMC6525447. 4: Leinert E, Schwentner L, Blettner M, Wöckel A, Felberbaum R, Flock F, Kühn T, Denkinger MD, Janni W, Kreienberg R, Singer S; BRENDA Study Group. Association between cognitive impairment and guideline adherence for application of chemotherapy in older patients with breast cancer: Results from the prospective multicenter BRENDA II study. Breast J. 2019 May;25(3):386_392. doi: 10.1111/tbj.13231. Epub 2019 Apr 3. PubMed PMID: 30945393. 5: Vogel M, Christow H, Manz I, Denkinger M, Amoah A, Schütz D, Brown A, Möhrle B, Schaffer A, Kalbitz M, Gebhard F, Mayer B, Huber_Lang M, Geiger H. Distinct Dynamics of Stem and Progenitor Cells in Blood of Polytraumatized

Patients. *Shock*. 2019 Apr;51(4):430-438. doi: 10.1097/SHK.0000000000001198. PubMed PMID: 30289853; PubMed Central PMCID: PMC6407807. 6: Rothenbacher D, Dallmeier D, Denking MD, Boehm BO, Koenig W, Klenk J; ActiFE Study Group. Physical Activity and Sex Hormone Binding Globulin in Older Adults. *J Aging Phys Act*. 2019 Mar 26;1-4. doi: 10.1123/japa.2018_0171. [Epub ahead of print] PubMed PMID: 30676188. 7: Mikolaizak AS, Klenk J, Rothenbacher D, Denking MD, Rapp K; ActiFE Study Group. Purpose, Frequency, and Mode of Transport by Which Older Adults Leave Their Home_A Cross-Sectional Analysis. *J Aging Phys Act*. 2019 Mar 25;1-8. doi: 10.1123/japa.2018_0242. [Epub ahead of print] PubMed PMID: 30747583. 8: Rothenbacher D, Dallmeier D, Christow H, Koenig W, Denking M, Klenk J; ActiFE study group. Association of growth differentiation factor 15 with other key biomarkers, functional parameters and mortality in community dwelling older adults. *Age Ageing*. 2019 Mar 11. pii: afz022. doi: 10.1093/ageing/afz022. [Epub ahead of print] PubMed PMID: 30855645. 9: Onder G, Vetrano DL, Villani ER, Carli A, Lo Monaco MR, Cipriani MC, Manes Gravina E, Denking M, Pagano F, van der Roest HG, Bernabei R. Deprescribing in Nursing Home Residents on Polypharmacy: Incidence and Associated Factors. *J Am Med Dir Assoc*. 2019 Mar 7. pii: S1525_8610(19)30157_4. doi: 10.1016/j.jamda.2019.01.130. [Epub ahead of print] PubMed PMID: 30853425. 10: Heupel-Reuter M, Denking M, Bauer JM, Voigt-Radloff S. [Blood pressure lowering treatment for prevention of recurrent stroke, severe vascular events and dementia in patients with stroke or transient ischemic attack in the past history]. *Z Gerontol Geriatr*. 2019 Mar;52(2):195-197. doi: 10.1007/s00391_019_01521_7. German. PubMed PMID: 30868224. 11: Bauer JM, Denking M, Voigt-Radloff S, Heppner HJ. [Updated Cochrane reviews with comments from a geriatric perspective : Orientation in times of information overload]. *Z Gerontol Geriatr*. 2019 Mar;52(2):111-112. doi: 10.1007/s00391_019_01515_5. German. PubMed PMID: 30737533. 12: Dallmeier D, Braisch U, Rapp K, Klenk J, Rothenbacher D, Denking M; ActiFE Study Group. Frailty index and sex-specific six-year mortality in community dwelling older people_the ActiFE Study. *J Gerontol A Biol Sci Med Sci*. 2019 Feb 21. pii: glz051. doi: 10.1093/gerona/glz051. [Epub ahead of print] PubMed PMID: 30789659. 13: Brefka S, Dallmeier D, Mühlbauer V, von Arnim CAF, Bollig C, Onder G, Petrovic M, Schönfeldt-Lecuona C, Seibert M, Torbahn G, Voigt-Radloff S, Haefeli WE, Bauer JM, Denking MD; Medication and Quality of Life Research Group. A Proposal for the Retrospective Identification and Categorization of Older People With Functional Impairments in Scientific Studies_Recommendations of the Medication and Quality of Life in Frail Older Persons (MedQoL) Research Group. *J Am Med Dir Assoc*. 2019 Feb;20(2):138-146. doi: 10.1016/j.jamda.2018.11.008. Epub 2019 Jan 9. PubMed PMID: 30638832. 14: Sánchez A, Thomas C, Deeken F, Wagner S, Klöppel S, Kentischer F, von Arnim CAF, Denking M, Conzelmann LO, Biermann-Stallwitz J, Joos S, Sturm H, Metz B, Auer R, Skrobik Y, Eschweiler GW, Rapp MA; PAWEL Study group. Patient safety, cost effectiveness, and quality of life: reduction of delirium risk and postoperative cognitive dysfunction after elective procedures in older adults_study protocol for a stepped_wedge cluster randomized trial (PAWEL Study). *Trials*. 2019 Jan 21;20(1):71. doi: 10.1186/s13063_018_3148_8. PubMed PMID: 30665435; PubMed Central PMCID: PMC6341754. 15: Mühlbauer V, Dallmeier D, Brefka S, Bollig C, Voigt-Radloff S, Denking M. The Pharmacological Treatment of Arterial Hypertension in Frail, Older Patients—a Systematic Review. *Dtsch Arztebl Int*. 2019 Jan 18;116(3):23-30. doi: 10.3238/arztebl.2019.0023. PubMed PMID: 30832759; PubMed Central PMCID: PMC6401515. 16: Timmermans EJ, de Koning EJ, van Schoor NM, van der Pas S, Denking MD, Dennison EM, Maggi S, Pedersen NL, Otero A, Peter R, Cooper C, Siviero P, Castell MV, Herbolzheimer F, Edwards M, Limongi F, Deeg DJH, Schaap LA. Within-person pain variability and physical activity in older adults with osteoarthritis from six European countries. *BMC Musculoskelet Disord*. 2019 Jan 5;20(1):12. doi: 10.1186/s12891_018_2392_0. PubMed PMID: 30611248; PubMed Central PMCID: PMC6320627. 17: Streicher M, van Zwielen-Pot J, Bardon L, Nagel G, Teh R, Meisinger C, Colombo M, Torbahn G, Kiesswetter E, Flechtner-Mors M, Denking M, Rothenbacher D, Thorand B, Ludwig KH, Corish CA, Clarke M, Kerse N, Muru-Lanning M, Gibney ER, O'Connor EM, Visser M, Volkert D; MaNuEL consortium. Determinants of Incident Malnutrition in Community-Dwelling Older Adults: A MaNuEL Multicohort Meta-Analysis. *J Am Geriatr Soc*. 2018 Dec;66(12):2335-2343. doi: 10.1111/jgs.15553. Epub 2018 Aug 23. PubMed PMID: 30136728. 18: Wöckel A, Festl J, Stüber T, Brust K, Krockenberger M, Heuschmann PU, Jirü-Hillmann S, Albert US, Budach W, Follmann M, Janni W, Kopp I, Kreienberg R, Kühn T, Langer T, Nothacker M, Scharl A, Schreier I, Link H, Engel J, Fehm T, Weis J, Welt A, Steckelberg A, Feyer P, König K, Hahne A, Baumgartner T, Kreipe HH, Knoefel WT, Denking M, Brucker S, Lüttner D, Kubisch C, Gerlach C, Lebeau A, Siedentopf F, Petersen C, Bartsch HH, Schulz-Wendtländ R, Hahn M, Hanf V, Müller-Schimpfle M, Henschler U, Roncarati R, Katalinic A, Heitmann C, Honegger C, Paradies K, Bjelic-Radicic V, Degenhardt F, Wenz F, Rick O, Hölzel D, Zaiss M, Kemper G, Budach V, Denkert C, Gerber B, Tesch H, Hirs Müller S, Sinn HP, Dunst J, Münstedt K, Bick U, Fallenberg E, Tholen R, Hung R, Baumann F, Beckmann MW, Blohmer J, Fasching P, Lux MP, Harbeck N, Hadji P, Hauner H, Heywang-Köbrunner S, Huober J, Hübner J, Jackisch C, Loibl S, Lück HJ, von Minckwitz G, Möbus V, Müller V, Nöthlings U, Schmidt M, Schmutzler R, Schneeweiss A, Schütz F, Stickeler E, Thomssen C, Untch M, Wesselmann S, Bucker A, Buck A, Stangl S. Interdisciplinary Screening, Diagnosis, Therapy and Follow-up of Breast Cancer. Guideline of the DGGG and the DKG (S3_Level, AWMF Registry Number 032/0450L, December 2017) _ Part 2 with Recommendations for the Therapy of Primary, Recurrent and Advanced Breast Cancer. *Geburtshilfe Frauenheilkd*. 2018 Nov;78(11):1056-1088. doi: 10.1055/a_0646_4630. Epub 2018 Nov 26. PubMed PMID: 30581198; PubMed Central PMCID: PMC6261741. 19: Dallmeier D, Denking MD. [Arterial hypertension in old age with the focus on 80]. *Z Gerontol Geriatr*. 2018 Nov;51(7):825-838. doi: 10.1007/s00391_018_1454_0. Epub 2018 Nov 6. German. PubMed PMID: 30402738. 20: Deidda M, Coll-Planas L, Giné-Garriga M, Guerra-Balic M, Roqué I, Figuls M, Tully MA, Caserotti P, Rothenbacher D, Salvà Casanovas A, Kee F, Blackburn NE, Wilson JJ, Skjødt M, Denking M, Wirth K, McIntosh E; SITLESS Team. Cost-effectiveness of exercise referral schemes enhanced by self-management strategies to battle sedentary behaviour in older adults: protocol for an economic evaluation alongside the SITLESS three-armed pragmatic randomised controlled trial. *BMJ Open*. 2018 Oct 15;8(10):e022266. doi: 10.1136/bmjopen.2018_022266. PubMed PMID: 30327403; PubMed Central PMCID: PMC6194476. 21: Wöckel A, Festl J, Stüber T, Brust K, Stangl S, Heuschmann PU, Albert US, Budach W, Follmann M, Janni W, Kopp I, Kreienberg R, Kühn T, Langer T, Nothacker M, Scharl A, Schreier I, Link H, Engel J, Fehm T, Weis J, Welt A, Steckelberg A, Feyer P, König K, Hahne A, Kreipe HH, Knoefel WT, Denking M, Brucker S, Lüttner D, Kubisch C, Gerlach C, Lebeau A, Siedentopf F, Petersen C, Bartsch HH, Schulz-Wendtländ R, Hahn M, Hanf V, Müller-Schimpfle M, Henschler U, Roncarati R, Katalinic A, Heitmann C, Honegger C, Paradies K, Bjelic-Radicic V, Degenhardt F, Wenz F, Rick O, Hölzel D, Zaiss M, Kemper G, Budach V, Denkert C, Gerber B, Tesch H, Hirs Müller S, Sinn HP, Dunst J, Münstedt K, Bick U, Fallenberg E, Tholen R, Hung R, Baumann F, Beckmann MW, Blohmer J, Fasching P, Lux MP, Harbeck N, Hadji P, Hauner H, Heywang-Köbrunner S, Huober J, Hübner J, Jackisch C, Loibl S, Lück HJ, von Minckwitz G, Möbus V, Müller V, Nöthlings U, Schmidt M, Schmutzler R, Schneeweiss A, Schütz F, Stickeler E, Thomssen C, Untch M, Wesselmann S, Bucker A, Krockenberger M. Interdisciplinary Screening, Diagnosis, Therapy and Follow-up of Breast Cancer. Guideline of the DGGG and the DKG (S3_Level, AWMF Registry Number 032/0450L, December 2017) _ Part 1 with Recommendations for the Screening, Diagnosis and Therapy of Breast Cancer. *Geburtshilfe Frauenheilkd*. 2018 Oct;78(10):927-948. doi: 10.1055/a_0646_4522. Epub 2018 Oct 19. PubMed PMID: 30369626; PubMed Central PMCID: PMC6202580. 22: Schwandt A, Bergis D, Denking M, Gollisch KSC, Sandig D, Stingl H, Zimny S, Holl RW. Risk factors for decline in renal function among young adults with type 1 diabetes. *J Diabetes Complications*. 2018 Oct;32(10):940-946. doi: 10.1016/j.jdiacomp.2018.07.007. Epub 2018 Jul 19. PubMed PMID: 30055905. 23: Leins H, Mulaw M, Ewen K, Sakk V, Liang Y, Denking M, Geiger H, Schirmbeck R. Aged murine hematopoietic stem cells drive aging-associated immune remodeling. *Blood*. 2018 Aug 9;132(6):565-576. doi: 10.1182/blood.2018_02_831065. Epub 2018 Jun 11. PubMed PMID: 29891535; PubMed Central PMCID: PMC6137572. 24: Ten Koppel M, Onwuteaka-Philipsen BD, Pasman HR, Bernabei R, Carpenter I, Denking MD, Onder G, van der Roest HG, Topinkova E, van Hout HPJ. Are older long term care residents accurately prognosticated and consequently informed about their prognosis? Results from SHELTER study data in 5 European countries. *PLoS One*. 2018 Jul 18;13(7):e0200590. doi: 10.1371/journal.pone.0200590. eCollection 2018. PubMed PMID: 30020976; PubMed Central PMCID: PMC6051611. 25: Rapp K, Mikolaizak S, Rothenbacher D, Denking MD, Klenk J. Prospective analysis of time out_of_home and objectively measured walking duration during a week in a large cohort of older adults. *Eur Rev Aging Phys Act*. 2018 Jun 16;15:8. doi: 10.1186/s11556_018_0197_7. eCollection 2018. PubMed PMID: 29946372; PubMed Central PMCID: PMC6004085. 26: de Koning EJ, Timmermans EJ, van Schoor NM, Stubbs B, van den Kommer TN, Dennison EM, Limongi F, Edwards MH, Queipo R, Cooper C, Siviero P, van der Pas S, Pedersen NL, Sánchez-Martínez M, Deeg DJH, Denking MD; EPOSA Group. Within-Person Pain Variability and Mental Health in Older Adults With Osteoarthritis: An Analysis Across 6 European Cohorts. *J Pain*. 2018 Jun;19(6):690-698. doi: 10.1016/j.jpain.2018.02.006. Epub 2018 Mar 2. PubMed PMID: 29496636; PubMed Central PMCID: PMC5975951. 27: Laszlo R, Konz H, Kunz K, Dallmeier D, Klenk J, Denking M, Koenig W, Rothenbacher D, Steinacker F. The ActiFE Study Group JM. Evaluation of left and right ventricular

systolic and diastolic electromechanical synchrony in older people: a population-based observational study. *Physiol Res*. 2017 Dec 20;66(6):933-948. Epub 2017 Sep 22. PubMed PMID: 28937256. 28: Poscia A, Collamati A, Carfi A, Topinkova E, Richter T, Denkinge M, Pastorino R, Landi F, Ricciardi W, Bernabei R, Onder G. Influenza and pneumococcal vaccination in older adults living in nursing home: a survival analysis on the shelter study. *Eur J Public Health*. 2017 Dec 1;27(6):1016-1020. doi: 10.1093/eurpub/ckx150. PubMed PMID: 29069321. 29: Laszlo R, Kunz K, Dallmeier D, Klenk J, Denkinge M, Koenig W, Rothenbacher D, Steinacker JM; ActiFe Study Group. Accuracy of ECG indices for diagnosis of left ventricular hypertrophy in people >65 years: results from the ActiFe study. *Aging Clin Exp Res*. 2017 Oct;29(5):875-884. doi: 10.1007/s40520_016_0667_6. Epub 2016 Nov 9. PubMed PMID: 27830522. 30: Siebolds M, Ansorg J, Dittmar R, Hennes N, Radau T, Ruff S, Denkinge MD. [Master trainer concept "structured specialist further education" : A joint project of the German Professional Associations of Internal Medicine, Surgeons and Orthopedic/Trauma Surgeons]. *Ophthalmologe*. 2017 Oct;114(10):894-900. doi: 10.1007/s00347_017_0520_0. Review. German. PubMed PMID: 28656331. 31: Schwandt A, Denkinge M, Fasching P, Pfeifer M, Wagner C, Weiland J, Zeyfang A, Holl RW. Comparison of MDRD, CKD-EPI, and Cockcroft-Gault equation in relation to measured glomerular filtration rate among a large cohort with diabetes. *J Diabetes Complications*. 2017 Sep;31(9):1376-1383. doi: 10.1016/j.jdiacomp.2017.06.016. Epub 2017 Jul 5. PubMed PMID: 28711195. 32: Florian MC, Klenk J, Marka G, Soller K, Kiryakos H, Peter R, Herbolzheimer F, Rothenbacher D, Denkinge M, Geiger H. Expression and Activity of the Small RhoGTPase Cdc42 in Blood Cells of Older Adults Are Associated With Age and Cardiovascular Disease. *J Gerontol A Biol Sci Med Sci*. 2017 Sep 1;72(9):1196-1200. doi: 10.1093/gerona/glx091. PubMed PMID: 28498918. 33: Laszlo R, Baumann T, Konz H, Dallmeier D, Klenk J, Denkinge M, Koenig W, Rothenbacher D, Steinacker JM; ActiFe Study. Right ventricular function assessed by tissue Doppler echocardiography in older subjects without evidence for structural cardiac disease. *Aging Clin Exp Res*. 2017 Jun;29(3):557-562. doi: 10.1007/s40520_016_0590_x. Epub 2016 May 31. PubMed PMID: 27245355. 34: Giné Garriga M, Coll Planas L, Guerra M, Domingo A, Roqué M, Caserotti P, Denkinge M, Rothenbacher D, Tully MA, Kee F, McIntosh E, Martín Borrás C, Oviedo GR, Jerez Roig J, Santiago M, Sansano O, Varela G, Skjødt M, Wirth K, Dallmeier D, Klenk J, Wilson JJ, Blackburn NE, Deidda M, Lefebvre G, González D, Salvà A. The SITLESS project: exercise referral schemes enhanced by self-management strategies to battle sedentary behaviour in older adults: study protocol for a randomised controlled trial. *Trials*. 2017 May 18;18(1):221. doi: 10.1186/s13063-017-1956-x. PubMed PMID: 28521831; PubMed Central PMCID: PMC5437412. 35: Wirth K, Klenk J, Brefka S, Dallmeier D, Faehling K, Roqué I, Figuls M, Tully MA, Giné Garriga M, Caserotti P, Salvà A, Rothenbacher D, Denkinge M, Stubbs B; SITLESS consortium. Biomarkers associated with sedentary behaviour in older adults: A systematic review. *Ageing Res Rev*. 2017 May;35:87-111. doi: 10.1016/j.arr.2016.12.002. Epub 2016 Dec 23. Review. PubMed PMID: 28025174. 36: Liperoti R, Sganga F, Landi F, Topinkova E, Denkinge MD, van der Roest HG, Foebel AD, Finne-Soveri H, Bernabei R, Onder G. Antipsychotic Drug Interactions and Mortality Among Nursing Home Residents With Cognitive Impairment. *J Clin Psychiatry*. 2017 Jan;78(1):e76-e82. doi: 10.4088/JCP.15m10303. PubMed PMID: 28129493. 37: Timmermans EJ, van der Pas S, Dennison EM, Maggi S, Peter R, Castell MV, Pedersen NL, Denkinge MD, Edwards MH, Limongi F, Herbolzheimer F, Sánchez-Martínez M, Siviero P, Queipo R, Schaap LA, Deeg DJ; EPOSA research group. The Influence of Weather Conditions on Outdoor Physical Activity Among Older People With and Without Osteoarthritis in 6 European Countries. *J Phys Act Health*. 2016 Dec;13(12):1385-1395. doi: 10.1123/jpah.2016.0040. Epub 2016 Aug 24. PubMed PMID: 27633622; PubMed Central PMCID: PMC5384632. 38: Laszlo R, Baumann T, Konz H, Dallmeier D, Klenk J, Denkinge M, Koenig W, Rothenbacher D, Steinacker JM. Echocardiographic B-mode evaluation of the right heart in older people: The ActiFe Study. *Arch Gerontol Geriatr*. 2016 Nov;67:145-52. doi: 10.1016/j.archger.2016.07.007. Epub 2016 Aug 7. PubMed PMID: 27518473. 39: Siviero P, Zambon S, Limongi F, Castell MV, Cooper C, Deeg DJ, Denkinge MD, Dennison EM, Edwards MH, Gesmundo A, Otero Á, Pedersen NL, Peter R, Queipo R, Timmermans EJ, van Schoor NM, Maggi S; EPOSA Research Group. How Hand Osteoarthritis, Comorbidity, and Pain Interact to Determine Functional Limitation in Older People: Observations From the European Project on OsteoArthritis Study. *Arthritis Rheumatol*. 2016 Nov;68(11):2662-2670. doi: 10.1002/art.39757. PubMed PMID: 27214708; PubMed Central PMCID: PMC5521250. 40: Veronese N, Cereda E, Maggi S, Luchini C, Solmi M, Smith T, Denkinge M, Hurley M, Thompson T, Manzato E, Sergi G, Stubbs B. Osteoarthritis and mortality: A prospective cohort study and systematic review with meta-analysis. *Semin Arthritis Rheum*. 2016 Oct;46(2):160-167. doi: 10.1016/j.semarthrit.2016.04.002. Epub 2016 Apr 13. Review. PubMed PMID: 27179749. 41: Szczerbińska K, Topinková E, Brzycki P, van der Roest HG, Richter T, Finne-Soveri H, Denkinge MD, Gindin J, Onder G, Bernabei R, Liperoti R. Delivery of Care to Nursing Home Residents With Diabetes: Results From the SHELTER Study. *J Am Med Dir Assoc*. 2016 Sep 1;17(9):807-13. doi: 10.1016/j.jamda.2016.05.003. Epub 2016 Jun 21. PubMed PMID: 27342004. 42: Zambon S, Siviero P, Denkinge M, Limongi F, Victoria Castell M, van der Pas S, Otero Á, Edwards MH, Peter R, Pedersen NL, Sánchez-Martínez M, Dennison EM, Gesmundo A, Schaap LA, Deeg DJ, van Schoor NM, Maggi S; EPOSA Research Group. Role of Osteoarthritis, Comorbidity, and Pain in Determining Functional Limitations in Older Populations: European Project on Osteoarthritis. *Arthritis Care Res (Hoboken)*. 2016 Jun;68(6):801-10. doi: 10.1002/acr.22755. PubMed PMID: 26474272. 43: van Schoor NM, Zambon S, Castell MV, Cooper C, Denkinge M, Edwards MH, Herbolzheimer F, Maggi S, Sánchez-Martínez M, Pedersen NL, Peter R, Schaap LA, Rijnhart JJ, van der Pas S, Deeg DJ. Impact of clinical osteoarthritis of the hip, knee and hand on self-rated health in six European countries: the European Project on OsteoArthritis. *Qual Life Res*. 2016 Jun;25(6):1423-32. doi: 10.1007/s11136-015-1171-8. Epub 2015 Nov 7. PubMed PMID: 26547441; PubMed Central PMCID: PMC4870285. 44: Yamada Y, Denkinge MD, Onder G, van der Roest HG, Finne-Soveri H, Bernabei R, Topinkova E. Joint Associations of Dual Sensory Impairment and No-Activity Involvement With 1-Year Mortality in Nursing Homes: Results From the SHELTER Study. *J Gerontol A Biol Sci Med Sci*. 2016 May;71(5):643-8. doi: 10.1093/gerona/glv191. Epub 2015 Nov 18. PubMed PMID: 26582074. 45: Stubbs B, Brefka S, Dallmeier D, Stubbs J, Vancampfort D, Denkinge MD. Depression and Reduced Bone Mineral Density at the Hip and Lumbar Spine: A Comparative Meta-Analysis of Studies in Adults 60 Years and Older. *Psychosom Med*. 2016 May;78(4):492-500. doi: 10.1097/PSY.0000000000000292. Review. PubMed PMID: 26716814. 46: Klenk J, Dallmeier D, Denkinge MD, Rapp K, Koenig W, Rothenbacher D; ActiFe Study Group. Objectively Measured Walking Duration and Sedentary Behaviour and Four-Year Mortality in Older People. *PLoS One*. 2016 Apr 15;11(4):e0153779. doi: 10.1371/journal.pone.0153779. eCollection 2016. PubMed PMID: 27082963; PubMed Central PMCID: PMC4833405. 47: Dallmeier D, Klenk J, Peter RS, Denkinge M, Peter R, Rapp K, Koenig W, Rothenbacher D. A prospective assessment of cardiac biomarkers for hemodynamic stress and necrosis and the risk of falls among older people: the ActiFe study. *Eur J Epidemiol*. 2016 Apr;31(4):427-35. doi: 10.1007/s10654_015_0059_9. Epub 2015 Jul 1. PubMed PMID: 26130126. 48: Herbolzheimer F, Schaap LA, Edwards MH, Maggi S, Otero Á, Timmermans EJ, Denkinge MD, van der Pas S, Dekker J, Cooper C, Dennison EM, van Schoor NM, Peter R; EPOSA Study Group. Physical Activity Patterns Among Older Adults With and Without Knee Osteoarthritis in Six European Countries. *Arthritis Care Res (Hoboken)*. 2016 Feb;68(2):228-36. doi: 10.1002/acr.22669. PubMed PMID: 26212673. 49: Prinz N, Stingl J, Dapp A, Denkinge MD, Fasching P, Jehle PM, Merger S, Mühlendorfer S, Pieper U, Schuler A, Zeyfang A, Holl RW; DPV initiative. High rate of hypoglycemia in 6770 type 2 diabetes patients with comorbid dementia: A multicenter cohort study on 215,932 patients from the German/Austrian diabetes registry. *Diabetes Res Clin Pract*. 2016 Feb;112:73-81. doi: 10.1016/j.diabres.2015.10.026. Epub 2015 Oct 30. PubMed PMID: 26563590. 50: Foebel AD, Onder G, Finne-Soveri H, Lukas A, Denkinge MD, Carfi A, Vetrano DL, Brandi V, Bernabei R, Liperoti R. Physical Restraint and Antipsychotic Medication Use Among Nursing Home Residents With Dementia. *J Am Med Dir Assoc*. 2016 Feb;17(2):184.e9-14. doi: 10.1016/j.jamda.2015.11.014. Epub 2016 Jan 6. PubMed PMID: 26778491. 51: van der Pas S, Schaap LA, Castell MV, Cooper C, Denkinge M, Edwards MH, Herbolzheimer F, Maggi S, Sánchez-Martínez M, Pedersen NL, Peter R, Zambon S, Wieggersma SB, Dekker J, Dennison EM, Deeg DJ. Availability and use of neighborhood resources by older people with osteoarthritis: Results from the European Project on OsteoArthritis. *Health Place*. 2016 Jan;37:1-7. doi: 10.1016/j.healthplace.2015.10.006. Epub 2015 Dec 14. PubMed PMID: 26699445. 52: Yamada Y, Denkinge MD, Onder G, Henrard JC, van der Roest HG, Finne-Soveri H, Richter T, Vlachova M, Bernabei R, Topinkova E. Dual Sensory Impairment and Cognitive Decline: The Results From the Shelter Study. *J Gerontol A Biol Sci Med Sci*. 2016 Jan;71(1):117-23. doi: 10.1093/gerona/glv036. Epub 2015 Apr 13. PubMed PMID: 25869524. 54: Denkinge MD, Leins H, Schirmbeck R, Florian MC, Geiger H. HSC Aging and Senescent Immune Remodeling. *Trends Immunol*. 2015 Dec;36(12):815-824. doi: 10.1016/j.it.2015.10.008. Epub 2015 Nov 21. Review. PubMed PMID: 26611154; PubMed Central PMCID: PMC4710174. 55: Castell MV, van der Pas S, Otero A, Siviero P, Dennison E, Denkinge M, Pedersen N, Sanchez-Martínez M, Queipo R, van Schoor N, Zambon S, Edwards M, Peter R, Schaap L, Deeg D. Osteoarthritis and frailty in elderly individuals across six European countries: results from the European Project on OsteoArthritis (EPOSA). *BMC Musculoskelet Disord*. 2015 Nov

17;16:359. doi: 10.1186/s12891_015_0807_8. PubMed PMID: 26578262; PubMed Central PMCID: PMC4650343.

56: Timmermans EJ, Schaap LA, Herbolzheimer F, Dennison EM, Maggi S, Pedersen NL, Castell MV, Denkiner MD, Edwards MH, Limongi F, Sánchez-Martínez M, Siviero P, Queipo R, Peter R, van der Pas S, Deeg DJ; EPOSA Research Group. The Influence of Weather Conditions on Joint Pain in Older People with Osteoarthritis: Results from the European Project on OsteoArthritis. *J Rheumatol*. 2015 Oct;42(10):1885-92. doi: 10.3899/jrheum.141594. Epub 2015 Sep 1. PubMed PMID: 26329341. 57: Stubbs B, Brefka S, Denkiner MD. What Works to Prevent Falls in Community-Dwelling Older Adults? Umbrella Review of Meta-analyses of Randomized Controlled Trials. *Phys Ther*. 2015 Aug;95(8):1095-110. doi: 10.2522/ptj.20140461. Epub 2015 Feb 5. Review. PubMed PMID: 25655877. 58: Lukas A, Mayer B, Onder G, Bernabei R, Denkiner MD. [Pain therapy in German long-term care facilities in a European comparison. Results of the SHELTER study]. *Schmerz*. 2015 Aug;29(4):411-21. doi: 10.1007/s00482-015-0004-6. German. PubMed PMID: 25972275. 59: Stubbs B, Denkiner MD, Brefka S, Dallmeier D. What works to prevent falls in older adults dwelling in long term care facilities and hospitals? An umbrella review of meta-analyses of randomised controlled trials. *Maturitas*. 2015 Jul;81(3):335-42. doi: 10.1016/j.maturitas.2015.03.026. Epub 2015 Apr 14. Review. PubMed PMID: 25935294. 60: Klenk J, Kerse N, Rapp K, Nikolaus T, Becker C, Rothenbacher D, Peter R, Denkiner MD; ActiFE Study Group. Physical Activity and Different Concepts of Fall Risk Estimation in Older People: Results of the ActiFE Ulm Study. *PLoS One*. 2015 Jun 9;10(6):e0129098. doi: 10.1371/journal.pone.0129098. eCollection 2015. PubMed PMID: 26058056; PubMed Central PMCID: PMC4461251. 61: Szczerbińska K, Topinková E, Brzyski P, van der Roest HG, Richter T, Finne-Soveri H, Denkiner MD, Gindin J, Onder G, Bernabei R. The characteristics of diabetic residents in European nursing homes: results from the SHELTER study. *J Am Med Dir Assoc*. 2015 Apr;16(4):334-40. doi: 10.1016/j.jamda.2014.11.009. Epub 2014 Dec 19. PubMed PMID: 25533147. 62: Yamada Y, Denkiner MD, Onder G, Finne-Soveri H, van der Roest H, Vlachova M, Richter T, Gindin J, Bernabei R, Topinkova E. Impact of dual sensory impairment on onset of behavioral symptoms in European nursing homes: results from the Services and Health for Elderly in Long-Term Care study. *J Am Med Dir Assoc*. 2015 Apr;16(4):329-33. doi: 10.1016/j.jamda.2014.11.006. Epub 2014 Dec 15. PubMed PMID: 25523284. 63: Klenk J, Rapp K, Denkiner M, Nagel G, Nikolaus T, Peter R, Boehm BO, Koenig W, Rothenbacher D; ActiFE Study Group. Objectively measured physical activity and vitamin D status in older people from Germany. *J Epidemiol Community Health*. 2015 Apr;69(4):388-92. doi: 10.1136/jech.2014.204632. Epub 2015 Jan 6. PubMed PMID: 25563742. 64: Dallmeier D, Denkiner M, Peter R, Rapp K, Jaffe AS, Koenig W, Rothenbacher D; ActiFE Study Group. Sex-specific associations of established and emerging cardiac biomarkers with all-cause mortality in older adults: the ActiFE study. *Clin Chem*. 2015 Feb;61(2):389-99. doi: 10.1177/clinchem.2014.230839. Epub 2014 Dec 10. PubMed PMID: 25501933. 65: Denkiner MD, Hasch M, Gerstmayer A, Kreienberg R, Nikolaus T, Hancke K. Predicting fatigue in older breast cancer patients receiving radiotherapy. A head-to-head comparison of established assessments. *Z Gerontol Geriatr*. 2015 Feb;48(2):128-34. doi: 10.1007/s00391-014-0840-5. Epub 2015 Jan 16. PubMed PMID: 25592175. 66: Denkiner MD, Lukas A, Nikolaus T, Hauer K. Factors associated with fear of falling and associated activity restriction in community-dwelling older adults: a systematic review. *Am J Geriatr Psychiatry*. 2015 Jan;23(1):72-86. doi: 10.1016/j.jagp.2014.03.002. Epub 2014 Mar 15. Review. PubMed PMID: 24745560. 67: Nagel G, Herbolzheimer F, Riepe M, Nikolaus T, Denkiner MD, Peter R, Weinmayr G, Rothenbacher D, Koenig W, Ludolph AC, von Arnim CA; ActiFE Study Group. Serum Vitamin D Concentrations and Cognitive Function in a Population-Based Study among Older Adults in South Germany. *J Alzheimers Dis*. 2015;45(4):1119-26. PubMed PMID: 25649649. 68: Foebel AD, Liperoti R, Onder G, Finne-Soveri H, Henrard JC, Lukas A, Denkiner MD, Gambassi G, Bernabei R; SHELTER Study Investigators. Use of antipsychotic drugs among residents with dementia in European long-term care facilities: results from the SHELTER study. *J Am Med Dir Assoc*. 2014 Dec;15(12):911-7. doi: 10.1016/j.jamda.2014.07.012. Epub 2014 Sep 24. PubMed PMID: 25262195. 69: Edwards MH, van der Pas S, Denkiner MD, Parsons C, Jameson KA, Schaap L, Zambon S, Castell MV, Herbolzheimer F, Nasell H, Sanchez-Martinez M, Otero A, Nikolaus T, van Schoor NM, Pedersen NL, Maggi S, Deeg DJ, Cooper C, Dennison E. Relationships between physical performance and knee and hip osteoarthritis: findings from the European Project on Osteoarthritis (EPOSA). *Age Ageing*. 2014 Nov;43(6):806-13. doi: 10.1093/ageing/afu068. Epub 2014 Jun 10. PubMed PMID: 24918169; PubMed Central PMCID: PMC4207630. 70: Yamada Y, Vlachova M, Richter T, Finne-Soveri H, Gindin J, van der Roest H, Denkiner MD, Bernabei R, Onder G, Topinkova E. Prevalence and correlates of hearing and visual impairments in European nursing homes: results from the SHELTER study. *J Am Med Dir Assoc*. 2014 Oct;15(10):738-43. doi: 10.1016/j.jamda.2014.05.012. Epub 2014 Jun 28. PubMed PMID: 24984787. 71: Rapp K, Freiberger E, Todd C, Klenk J, Becker C, Denkiner M, Scheidt-Nave C, Fuchs J. Fall incidence in Germany: results of two population-based studies, and comparison of retrospective and prospective falls data collection methods. *BMC Geriatr*. 2014 Sep 20;14:105. doi: 10.1186/1471-2318-14-105. PubMed PMID: 25241278; PubMed Central PMCID: PMC4179843. 72: Geiger H, Denkiner M, Schirmbeck R. Hematopoietic stem cell aging. *Curr Opin Immunol*. 2014 Aug;29:86-92. doi: 10.1016/j.coi.2014.05.002. Epub 2014 Jun 3. Review. PubMed PMID: 24905894. 73: Denkiner MD, Lukas A, Nikolaus T, Peter R, Franke S; ActiFE study group. Multisite pain, pain frequency and pain severity are associated with depression in older adults: results from the ActiFE Ulm study. *Age Ageing*. 2014 Jul;43(4):510-4. doi: 10.1093/ageing/afu013. Epub 2014 Mar 5. PubMed PMID: 24603284. 74: Timmermans EJ, van der Pas S, Schaap LA, Sánchez-Martínez M, Zambon S, Peter R, Pedersen NL, Dennison EM, Denkiner M, Castell MV, Siviero P, Herbolzheimer F, Edwards MH, Otero A, Deeg DJ. Self-perceived weather sensitivity and joint pain in older people with osteoarthritis in six European countries: results from the European Project on OsteoArthritis (EPOSA). *BMC Musculoskelet Disord*. 2014 Mar 5;15:66. doi: 10.1186/1471-2474-15-66. PubMed PMID: 24597710; PubMed Central PMCID: PMC3996041. 75: Rothenbacher D, Klenk J, Denkiner MD, Herbolzheimer F, Nikolaus T, Peter R, Boehm BO, Rapp K, Dallmeier D, Koenig W; ActiFE Study Group. Prospective evaluation of renal function, serum vitamin D level, and risk of fall and fracture in community-dwelling elderly subjects. *Osteoporos Int*. 2014 Mar;25(3):923-32. doi: 10.1007/s00198-013-2565-5. Epub 2013 Nov 13. PubMed PMID: 24221451. 76: Lukas A, Mayer B, Fialová D, Topinkova E, Gindin J, Onder G, Bernabei R, Nikolaus T, Denkiner MD. Treatment of pain in European nursing homes: results from the Services and Health for Elderly in Long-Term Care (SHELTER) study. *J Am Med Dir Assoc*. 2013 Nov;14(11):821-31. doi: 10.1016/j.jamda.2013.04.009. Epub 2013 Jun 6. PubMed PMID: 23746948. 77: Lukas A, Mayer B, Fialová D, Topinkova E, Gindin J, Onder G, Bernabei R, Nikolaus T, Denkiner MD. Pain characteristics and pain control in European nursing homes: cross-sectional and longitudinal results from the Services and Health for Elderly in Long-Term Care (SHELTER) study. *J Am Med Dir Assoc*. 2013 Jun;14(6):421-8. doi: 10.1016/j.jamda.2012.12.010. Epub 2013 Feb 1. PubMed PMID: 23375521. 78: Klenk J, Rapp K, Denkiner MD, Nagel G, Nikolaus T, Peter R, Koenig W, Böhm BO, Rothenbacher D. Seasonality of vitamin D status in older people in Southern Germany: implications for assessment. *Age Ageing*. 2013 May;42(3):404-8. doi: 10.1093/ageing/afu042. Epub 2013 Mar 29. PubMed PMID: 23542723. 79: van der Pas S, Castell MV, Cooper C, Denkiner M, Dennison EM, Edwards MH, Herbolzheimer F, Limongi F, Lips P, Maggi S, Nasell H, Nikolaus T, Otero A, Pedersen NL, Peter R, Sanchez-Martinez M, Schaap LA, Zambon S, van Schoor NM, Deeg DJ. European project on osteoarthritis: design of a six-cohort study on the personal and societal burden of osteoarthritis in an older European population. *BMC Musculoskelet Disord*. 2013 Apr 18;14:138. doi: 10.1186/1471-2474-14-138. PubMed PMID: 23597054; PubMed Central PMCID: PMC3637520. 80: Klenk J, Denkiner M, Nikolaus T, Peter R, Rothenbacher D, Koenig W; ActiFE Study Group. Association of objectively measured physical activity with established and novel cardiovascular biomarkers in elderly subjects: every step counts. *J Epidemiol Community Health*. 2013 Feb;67(2):194-7. doi: 10.1136/jech.2012.201312. Epub 2012 Aug 27. PubMed PMID: 22930799. 81: Denkiner CM, Grant AD, Denkiner M, Gautam S, D'Agata EM. Increased multi-drug resistance among the elderly on admission to the hospital: a 12-year surveillance study. *Arch Gerontol Geriatr*. 2013 Jan-Feb;56(1):227-30. doi: 10.1016/j.archger.2012.05.006. Epub 2012 Jun 6. PubMed PMID: 22682422. 82: Rapp K, Klenk J, Benzinger P, Franke S, Denkiner MD, Peter R; ActiFE Ulm Study Group. Physical performance and daily walking duration: associations in 1271 women and men aged 65-90 years. *Aging Clin Exp Res*. 2012 Oct;24(5):455-60. doi: 10.3275/8264. Epub 2012 Feb 6. PubMed PMID: 22313581. 83: Denkiner MD, Lukas A, Herbolzheimer F, Peter R, Nikolaus T. Physical activity and other health-related factors predict health care utilisation in older adults: the ActiFE Ulm study. *Z Gerontol Geriatr*. 2012 Jun;45(4):290-7. doi: 10.1007/s00391-012-0335-1. PubMed PMID: 22622677. 84: Lukas A, Kilian R, Hay B, Mueche R, von Arnim CA, Otto M, Riepe M, Jamour M, Denkiner MD, Nikolaus T. [Maintenance of health and relief for caregivers of elderly with dementia by using "initial case management": experiences from the Lighthouse Project on Dementia, Ulm, ULTDEM study]. *Z Gerontol Geriatr*. 2012 Jun;45(4):298-309. doi: 10.1007/s00391-012-0337-z. German. PubMed PMID: 22538793. 85: Rothenbacher D, Klenk J, Denkiner M, Karakas M, Nikolaus T, Peter R, Koenig W; ActiFE Study Group. Prevalence and determinants of chronic kidney disease in community-dwelling elderly by various estimating equations. *BMC Public*

Health. 2012 May 10;12:343. doi: 10.1186/1471_2458_12_343. PubMed PMID: 22574773; PubMed Central PMCID: PMC3490787. 86: Lukas A, Schuler M, Fischer TW, Gibson SJ, Savvas SM, Nikolaus T, Denkinge M. Pain and dementia: a diagnostic challenge. *Z Gerontol Geriatr.* 2012 Jan;45(1):45_9. doi: 10.1007/s00391_011_0272_4. Epub 2012 Jan 27. Review. PubMed PMID: 22278006. 87: Denkinge MD, Nikolaus T, Denkinge C, Lukas A. Physical activity for the prevention of cognitive decline: current evidence from observational and controlled studies. *Z Gerontol Geriatr.* 2012 Jan;45(1):11_6. doi: 10.1007/s00391_011_0262_6. PubMed PMID: 22278001. 88: Denkinge MD, Lindemann U, Nicolai S, Igl W, Jamour M, Nikolaus T. Assessing Physical Activity in Inpatient Rehabilitation: validity, practicality, and sensitivity to change in the physical activity in inpatient rehabilitation assessment. *Arch Phys Med Rehabil.* 2011 Dec;92(12):2012_7. doi: 10.1016/j.apmr.2011.06.032. PubMed PMID: 22133250. 89: Denkinge MD. Reduced sensitivity to change a relevant limitation of the visual analogue scale to assess fear of falling? *J Am Geriatr Soc.* 2011 Apr;59(4):773. doi: 10.1111/j.1532_5415.2011.03338.x. PubMed PMID: 21492118. 90: Denkinge MD, Franke S, Rapp K, Weinmayr G, Duran Tauleria E, Nikolaus T, Peter R; ActiFE Ulm Study Group. Accelerometer_based physical activity in a large observational cohort study protocol and design of the activity and function of the elderly in Ulm (ActiFE Ulm) study. *BMC Geriatr.* 2010 Jul 27;10:50. doi: 10.1186/1471_2318_10_50. PubMed PMID: 20663209; PubMed Central PMCID: PMC2919539. 91: Denkinge MD, Igl W, Jamour M, Bader A, Bailer S, Lukas A, Nikolaus T. Does functional change predict the course of improvement in geriatric inpatient rehabilitation? *Clin Rehabil.* 2010 May;24(5):463_70. doi: 10.1177/0269215509353269. Epub 2010 Mar 30. PubMed PMID: 20354056. 92: Hancke K, Denkinge MD, König J, Kurzeder C, Wöckel A, Herr D, Blettner M, Kreienberg R. Standard treatment of female patients with breast cancer decreases substantially for women aged 70 years and older: a German clinical cohort study. *Ann Oncol.* 2010 Apr;21(4):748_53. doi: 10.1093/annonc/mdp364. Epub 2009 Oct 13. PubMed PMID: 19825884. 93: Denkinge MD, Igl W, Lukas A, Bader A, Bailer S, Franke S, Denkinge CM, Nikolaus T, Jamour M. Relationship between fear of falling and outcomes of an inpatient geriatric rehabilitation population: fear of the fear of falling. *J Am Geriatr Soc.* 2010 Apr;58(4):664_73. doi: 10.1111/j.1532_5415.2010.02759.x. Epub 2010 Mar 22. PubMed PMID: 20345868. 94: Denkinge MD, Igl W, Coll_Planas L, Bleicher J, Nikolaus T, Jamour M. Evaluation of the short form of the late_life function and disability instrument in geriatric inpatients: validity, responsiveness, and sensitivity to change. *J Am Geriatr Soc.* 2009 Feb;57(2):309_14. doi: 10.1111/j.1532_5415.2008.02095.x. Epub 2008 Dec 10. PubMed PMID: 19170787. 95: Denkinge MD, Weyerhäuser K, Nikolaus T, Coll_Planas L. [Reliability of the abbreviated version of the Late Life Function and Disability Instrument: a meaningful and feasible tool to assess physical function and disability in the elderly]. *Z Gerontol Geriatr.* 2009 Feb;42(1):28_38. doi: 10.1007/s00391_008_0550_y. Epub 2009 Apr 10. German. PubMed PMID: 18465103. 96: Denkinge MD, Igl W, Coll_Planas L, Nikolaus T, Bailer S, Jamour M. Practicality, validity and sensitivity to change of fear of falling self_report in hospitalised elderly: a comparison of four instruments. *Age Ageing.* 2009 Jan;38(1):108_12. doi: 10.1093/ageing/afn233. Epub 2008 Nov 11. PubMed PMID: 19001557. 97: Denkinge MD. [Prevention through physical activity in old age: what is known and what needs to be done?]. *MMW Fortschr Med.* 2008 Nov 6;150(45):34_7; quiz 38. Review. German. PubMed PMID: 19055220. 98: Padrós J, Peris T, Salvà A, Denkinge MD, Coll_Planas L. Evaluation of a urinary incontinence unit for community_dwelling older adults in Barcelona: implementation and improvement of the perceived impact on daily life, frequency and severity of urinary incontinence. *Z Gerontol Geriatr.* 2008 Aug;41(4):291_7. doi: 10.1007/s00391_008_0564_5. Epub 2008 Aug 7. PubMed PMID: 18695974. 99: Coll_Planas L, Denkinge MD, Nikolaus T. Relationship of urinary incontinence and late_life disability: implications for clinical work and research in geriatrics. *Z Gerontol Geriatr.* 2008 Aug;41(4):283_90. doi: 10.1007/s00391_008_0563_6. Epub 2008 Aug 7. PubMed PMID: 18685805. 100: Denkinge MD, Coll_Planas L, Jamour M, Nikolaus T. The assessment of physical activity in inpatient rehabilitation: an important aspect of the identification of frailty in hospitalized older people. *J Am Geriatr Soc.* 2007 Jun;55(6):967_8; author reply 968_9. PubMed PMID: 17537110. 101: Denkinge MD, Denkinge MD, Forsthuber TG. Pertussis toxin_induced cytokine differentiation and clonal expansion of T cells is mediated predominantly via costimulation. *Cell Immunol.* 2007 Mar;246(1):46_54. Epub 2007 Jun 28. PubMed PMID: 17601518; PubMed Central PMCID: PMC2724065. 102: Denkinge MD, Metz C, Fingerle_Rowson G, Denkinge MD, Forsthuber T. Macrophage migration inhibitory factor and its role in autoimmune diseases. *Arch Immunol Ther Exp (Warsz).* 2004 Nov_Dec;52(6):389_400. Review. PubMed PMID: 15577740. 103: Denkinge M, Shive CL, Pantenburg B, Forsthuber TG. Suramin has adjuvant properties and promotes expansion of antigen_specific Th1 and Th2 cells in vivo. *Int Immunopharmacol.* 2004 Jan;4(1):15_24. PubMed PMID: 14975356. 104: Denkinge MD, Denkinge M, Kort JJ, Metz C, Forsthuber TG. In vivo blockade of macrophage migration inhibitory factor ameliorates acute experimental autoimmune encephalomyelitis by impairing the homing of encephalitogenic T cells to the central nervous system. *J Immunol.* 2003 Feb 1;170(3):1274_82. PubMed PMID: 12538686.

Projects

SITLESS – EU (2015 ff.) Partner of a large RCT on the evaluation of exercise referral schemes versus self_management_ strategies for the reduction of sedentary behaviour IMCA/ActiFE_Ulm – EU (2007 – 2010) and Ministry of Science Baden_Württemberg (2009_2012) and (third FU 2016 ff.) by DFG. Population_based, longitudinal cohort study in 1506 community dwelling older adults in its fourth year with a focus on physical activity, polymedication and biomarkers. PAWEL – Innovation_Fund Multicenter RCT for the prevention of delirium in elective heart and trauma patients (2017 ff.) TRADE (2019ff.) – Innovation Fund Multicenter complex RCT for the prevention and detection of delirium in older patients being discharged in new environments SURGE AHEAD (2021ff.) _ Ministry of Education and Science, Germany Development and iterative testing of a Geriatric dashboard to improve decision making on surgical wards including rule_based algorithms and AI. • Others, please see: www.bethesda-ulm.de/leistungsspektrum/forschung/uebersicht

Memberships

_ EuGMS liaison officer for EMA (SIG Pharmacology) _ EAMA – European Academy for Medicine of Ageing – member and fellow, organizer of the biannual network meeting _ Wissenschaftsforum Geriatrie e.V., the new network for geriatric research in Germany, Founding member _ Berufsverband Deutscher Internisten, member of the board _ German Society for Geriatric medicine and _ German Society for Internal Medicine _ German Society for Ultrasound in Medicine _ others

Other Relevant Information

Board Certification: Internal Medicine Board Certification: Geriatric Medicine Board Certification: Palliative Care Medicine