



Center for Health Care Research
Research Report 2021

Welcome to the Center for Health Care Research!

The German health care system is facing substantial challenges and fundamental changes. While the resources of the health care system are limited, the demand for health services will increase due to the rising burden of disease. The COVID-19 pandemic aggravates this situation and revealed deficiencies of health care systems. Therefore, sustainable innovations are urgently needed.

Health services research can help to develop, evaluate and implement new health care models which improve health care and public health. Since the health system is complex, health services research is a demanding undertaking. The complexity has to be met by interdisciplinary perspectives and vital collaboration.

Accordingly, the Center for Health Care Research (CHCR) aims to create and to foster health services research structures and activities at the University Medical Center Hamburg-Eppendorf (UKE) and the University of Hamburg. In particular, the CHCR develops innovative health services research projects and promotes junior researchers.

The CHCR has grown steadily in the last decade in terms of member institutions, third-party funds and publications reflecting the significance and productivity of health services research at the UKE and in the Metropolitan area of Hamburg. Consequently, the UKE defined health services research as one of its five key research areas.

Furthermore, the unique CHCR and its strong research structures made it possible to establish the Hamburg Network for Health Services Research (HAM-NET) to create systematic and sustainable exchange and communication between all relevant health care providers and stakeholders in Hamburg.

With this report we invite you to get to know the CHCR and its member institutions in more detail.



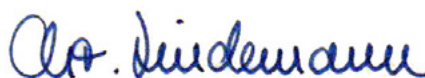
Prof. Dr. Olaf von dem Knesebeck
(spokesperson CHCR)



Prof. Dr. Dr. Martin Härter
(deputy spokesperson CHCR)



Prof. Dr. Martin Scherer
(deputy spokesperson CHCR)



Dr. Christina Lindemann
(coordination CHCR)

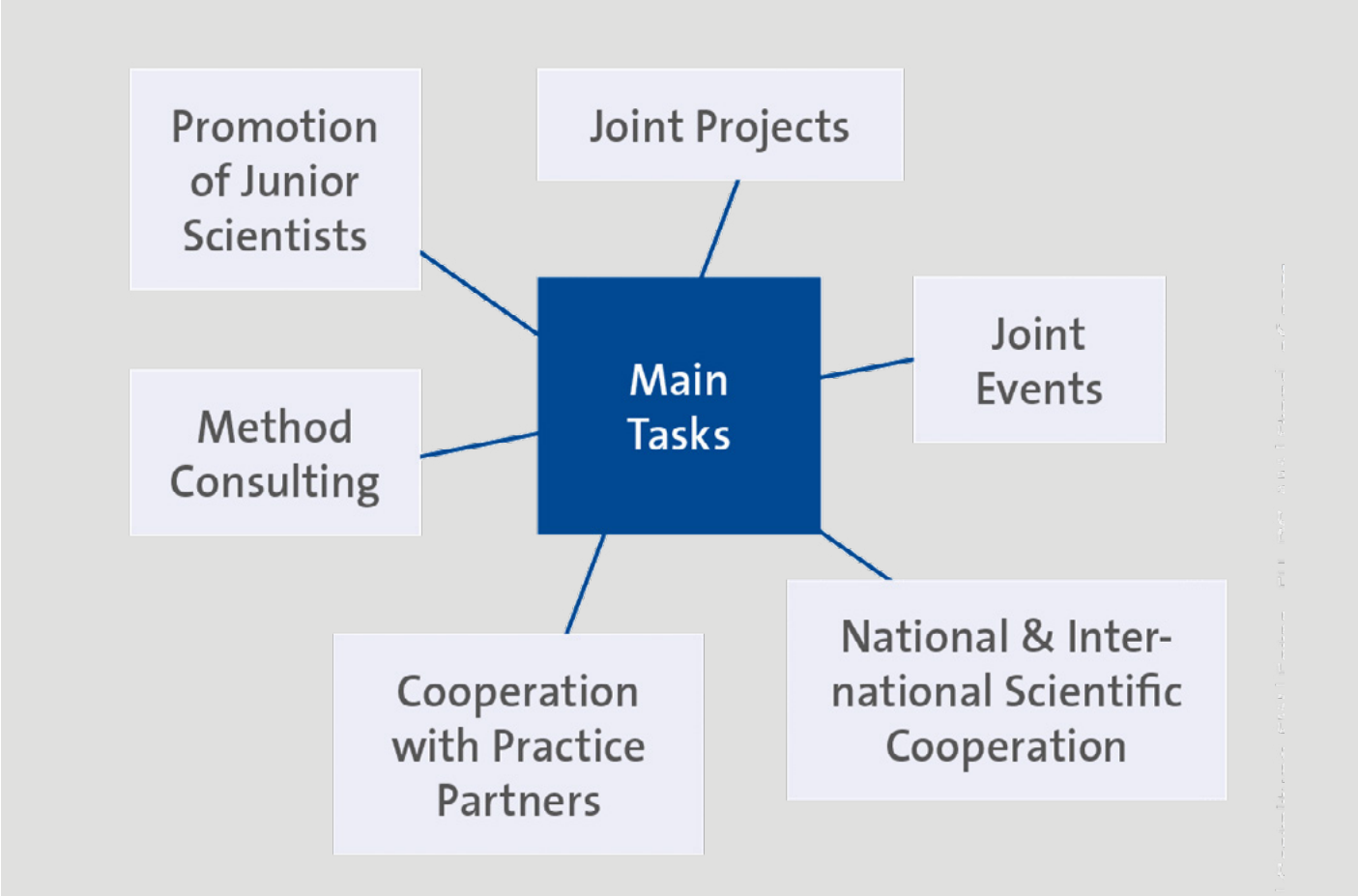
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Interdisciplinary Research for Health Care and Health Services

Health services research describes and analyzes the patients paths through the health system on every level. It aims to identify factors influencing the quality of structures and resources, treatment and processes, as well as outcomes. The work of the CHCR addresses highly relevant topics and uses innovative methodology to make the interdisciplinary health care research at the University Medical Center Hamburg-Eppendorf and the University of Hamburg internationally competitive. Our center is part of an excellent regional, national, and international network.



Health Services Research at the CHCR

Development,
(cost-)effectiveness
evaluation, and
implementation of
care models

Patient-centered care
and patient safety

Development and
evaluation of e-health
interventions

Theories and methods
in health services
research

Inequalities in health care

The CHCR in Numbers

- Foundation in **2006**
- **1 out of 5** research centers of the UKE
- **27** member organisations
- **230** researchers involved
- **580** Publications in 2020

Junior Researchers

The CHCR and its member institutions are involved in various teaching, training courses and promotion of young scientists at the UKE. The CHCR offers many courses in the framework of the „Integrated Pilot-course of Study Medicine Hamburg“ (iMed).

Several training activities have been initiated from 2019 to 2021. These included training on dfg applications, training on methods in health services research, and the establishment of low-threshold exchange opportunities during the COVID 19 pandemic on barriers in the implementation of projects.

Furthermore, it creates method seminars for participants of the PhD-programs at the UKE. Annually, the „Young Investigator Award“ for health services research is awarded and the “Junior Researcher’s Day” is organized.

The youngCHCR (yCHCR) has developed into a permanent institution of health services research at the UKE. Led by 3 speakers, innovative measures such as „5-Minute-Thesis“ or „Coffee-Table-Meetings“ have been established in the last 2 years. A focus was placed on simplifying the process of reaching members, and new flyers were developed for this purpose.

Since 2020 junior researchers have the opportunity to apply for scholarships for congresses, research visits and the Spring School of the German Network Health Services Research (DNVF). This is possible due to a cooperation with the Hamburg Network Health Services Research (HAM-NET). Last but not least, junior researchers can participate at the HAM-NET work shadowing program to get to know various stakeholders of health care system (e.g. health insurances, clinics, patient organizations etc.).



Management - Board of Directors

Spokespersons

Prof. Dr. Olaf von dem Knesebeck, Department of Medical Sociology,
Spokesperson CHCR

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Department of Psychiatry and Psychotherapy

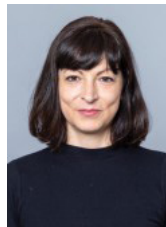
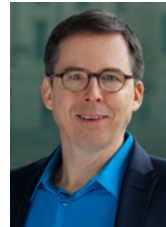
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Department of Prosthetic Dentistry

Prof. Dr. Ingo Schäfer,
Center for Interdisciplinary Addiction Research &
Department of Psychiatry and Psychotherapy

Coordinator

Dr. Christina Lindemann,
CHCR-Coordination



Major research interests in Health Services Research

The department represents general practice in research, teaching and patient care at the UKE. Research focusses on topics with relevance for general practice, embedded in structures and disciplines of the health care system. Areas of interest are e.g. management of chronic diseases/ multimorbidity, especially at the interface of somatic and mental disorders; investigations of the effectiveness of inter-professional interventions or the effectiveness of interpreting services in medicine. Methodological approaches include quantitative studies such as cross-sectional and longitudinal studies and RCTs. There is also profound expertise in qualitative study methodology. Furthermore the department engages in the development of clinical practice guidelines, the preparation of systematic reviews and the development of quality indicators in order to support high quality and evidence-based health care. Projects in medical education target the further development and evaluation of the curriculum for general practice as well as the follow-up of the careers of postgraduates.

International and national cooperation in Health Services Research

The department is cooperating with a number of institutions from within the Center for Health Care Research and the Center for Psychosocial Medicine. External cooperation partners include the Associations of Statutory Health Insurance Physicians, the Institute for Quality and Economic Efficiency (IQWiG, Cologne) and the aQua Institute for Applied Quality Promotion and Research in Health Care (Göttingen). There are research collaborations with a number of chairs of general medicine at German universities (e.g. Göttingen, Jena or Munich). International research contacts to working groups in the Netherlands,

Great Britain and Australia are maintained via the WONCA (World Organization of Family Doctors), GIN (guidelines international network) and the EPCCS (European Primary Care Cardiovascular Society). The Department is also involved in a multi-national research project funded by the European Horizon 2020 program which aims at the improvement of care for patients with multimorbidity.

Selected publications in Health Services Research

Hansen H, Schäfer I, Pohontsch N, Kazek A, Hardt H, Lühmann D, Scherer M. Regional differences in the patient population of general practices in northern Germany: results of a mixed-methods study. *BMJ OPEN*. 2020;10(11):e041762.

Pohontsch N, Zimmermann T, Lehmann M, Rustige L, Kurz K, Löwe B, Scherer M. ICD-10-coding of medically unexplained physical symptoms and somatoform disorders – a survey with German GPs. *FRONT MED-PRC*. 2021;8(1):598810.

Schäfer I, Oltrogge-Abiry J, Pruskil S, Mews C, Schlichting D, Jahnke M, Wagner H, Lühmann D, Scherer M. Referrals to secondary care in an outpatient primary care walk-in clinic for refugees in Germany: results from a secondary data analysis based on electronic medical records. *BMJ OPEN*. 2020;10(10):e035625.

Kloppe T, Pohontsch N, Scherer M. Types of Utilization and Types of Treatment Response in a Collaborative Care Approach for Depressive Disorders in Old Age in Primary Care. *Front Psychiatry*. 2020;11(565929):565929.

Eisele M, Harder M, Rakebrandt A, Boczor S, Marx G, Blozik E, Träder J, Störk S, Herrmann-Lingen C, Scherer M. Association of depression and anxiety with adherence in primary care patients with heart failure.

re - cross-sectional results of the observational RE-CODE-HF cohort study. FAM PRACT. 2020;37(5):695-702.

Selected research projects in Health Services Research

ESCAPE - Evaluation of a patient-centered biopsychosocial blended collaborative care pathway for the treatment of multimorbid elderly patients (ESCAPE) (Work-package leader: M. Scherer) The project was funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 945377

KOPAL: Development and evaluation of a concept for inter-professional collaboration for patients with palliative care needs (2019-2022), Innovationsfonds des G-BA (PI: M. Scherer)

InSEMaP: Interaction of systemic diseases and oral health in ambulatory care patients (2021-2024), Innovationsfonds des GB-A (leader subprojects 1 and 4: T. Zimmermann, M. Scherer)

GET.FEEDBACK.GP Depression screening in general practice: increasing clinical effectiveness and economic efficiency through patient-centered feedback. (2018-2022), Innovationsfonds des GB-A (Co-PI: M. Scherer)



Center for Psychosocial Medicine

Department of Medical Sociology

Director: Prof. Dr. Olaf von dem Knesebeck

Major research interests in Health Services Research

Health care research in the Institute of Medical Sociology focuses on social determinants of health care, patient centeredness, collective self-help, prevention and health promotion. With regards to social determinants, the impact of gender, migration, age, and the socio-economic status on access, utilization, and quality of health care is investigated. Patient centeredness and patient involvement as well as collective self-help are of high relevance in participatory research with self-help and patient organizations. Moreover, implementation and effectiveness of community-based health promotion interventions are examined. Methodological approaches include survey designs, process and out-come evaluations as well as systematic reviews.

International and national cooperation in Health Services Research

Researchers of the Institute of Medical Sociology have stable and longstanding cooperation partners

primarily within the Center for Health Care Research and the Center for Psychosocial Medicine in the UKE. Regional cooperation partners are manifold and encompass institutions of all care levels within the Hamburg Network for Health Services Research. Collaborations with other medical sociologists are established on a national (German Society of Medical Sociology) and international (European Society of Health and Medical Sociology) level. Moreover, there are collaborations with self-help institutions on a regional, national, and international level.

Selected publications in Health Services Research

Kim TJ, Vonneilich N, Lüdecke D, Knesebeck Ovd (2017). Income, financial barriers to health care and public health expenditure: a multilevel analysis of 28 countries. *Soc Sci Med* 176, 158-165.

Klein J, Knesebeck Ovd (2018) Inequalities in health care utilization among migrants and non-migrants in Germany: a systematic review. *Int J Equity Health* 17: 160.



Knesebeck Ovd, Scherer M, Marx G, Koens S (2020) Medical decision making among patients with heart failure – does migration background matter? BMC Fam Pract 21:189.

Nickel S, Knesebeck Ovd (2020) Do multiple community-based interventions on health promotion tackle health inequalities? A systematic review. Int J Equity Health 19:157.

Nickel S, Trojan A, Kofahl C (2017). Involving self-help groups in health-care institutions: the patients' contribution to and their view of 'self-help friendliness' as an approach to implement quality criteria of sustainable co-operation. Health Expect 20, 274-287.

Lüdecke D, Poppele G, Klein J, Kofahl C (2019) Quality of life of patients with dementia in acute hospitals in Germany: a non-randomised, case-control study comparing a regular ward with a special care ward with dementia care concept. BMJ Open: e030743.

Selected research projects in Health Services Research

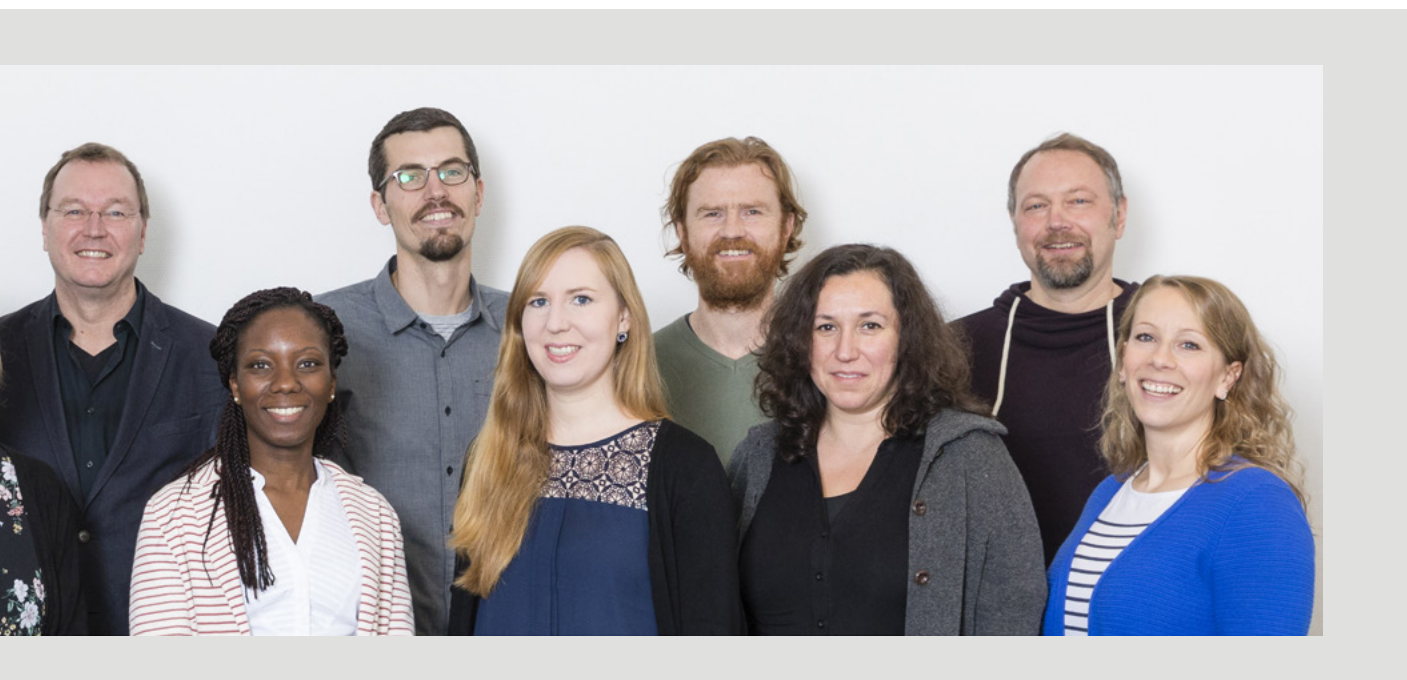
Disparities in the diagnosis and treatment of women and men with heart failure. (2017-2020), Federal Ministry of Education and Research (PI: O.v.d. Knesebeck)

Health promotion and prevention in the neighborhood. (2017-2020), Landesforschungsförderung (Co-PI: O.v.d. Knesebeck)

Organisational Health Literacy in the Hamburg Metropolitan Area. (2021-2024), Federal Ministry of Education and Research (PI: D. Lüdecke)

Emergency care in Hamburg – Public knowledge, beliefs, and utilization. (2021-2024), Federal Ministry of Education and Research (PI: O.v.d. Knesebeck)

Health Literacy, Self-Help and Experienced Care of Cancer Patients. (2018-2021), German Cancer Aid Foundation (PI: C. Kofahl)



Center for Psychosocial Medicine

Department of Health Economics and Health Services Research

Director: Prof. Dr. Hans-Helmut König

Major research interests in Health Services Research

The Department of Health Economics and Health Services Research is part of the Centre for Psychosocial Medicine of the UKE and of the inter-faculty Hamburg Centre for Health Economics (HCHE) of the University of Hamburg. The HCHE is Germany's largest health economic research centre with approximately 70 researchers (www.hche.de). Major research areas of the Department of Health Economics and Health Services Research of the UKE include cost-of-illness and cost-effectiveness analyses and the measurement of preferences for health and health care, with a special focus on mental health care. A further research area focusses on the analysis of determinants of health and health service use, with a special emphasis on old age.

International and national cooperation in Health Services Research

The department has stable and longstanding cooperation partners primarily within the Center for Health Care Research, the Center for Psychosocial Medicine and the Hamburg Center for Health Economics. National cooperation exists with numerous research institutions in the field of health services research, mental health and epidemiology. International cooperation exists with various health economic research institutions within the European Union.

Selected publications in Health Services Research

König H, König HH, Konnopka A (2019). The Excess Costs of Depression: A Systematic Review and Meta-Analysis. *EPIDEMIOL PSYCH SCI* 29: e30

Engels A, Reber KC, Maggaard JL, Härter M, Hawighorst-Knapstein S, Chaudhuri A, Brettschneider C, König HH (2020). How Does the Integration of Collaborative Care Elements in a Gatekeeping System Affect the Costs for Mental Health Care in Germany?. *EUR J HEALTH ECON* 21 (5): 751-61

Brettschneider C, Gensichen J, Hiller TS, Breitbart J, Schumacher U, Lukaschek K, Teismann T, Margraf J, König HH (2020). Cost-Effectiveness of Practice Team-Supported Exposure Training for Panic Disorder and Agoraphobia in Primary Care: A Cluster-Randomized Trial. *J GEN INTERN MED* 35 (4): 1120-26

Hohls JK, König HH, Heider D, Brenner H, Böhlen F, Matschinger H, Saum KU, Schöttker B, Haefeli WE, Hajek A, Wild B (2019). Longitudinal Association between Panic Disorder and Health Care Costs in Older Adults. *DEPRESS ANXIETY* 36 (12): 1135-42

Zwar L, König HH, Hajek A (2020). Psychosocial Consequences of Transitioning into Informal Caregiving in Male and Female Caregivers: Findings from a Population-Based Panel Study. *SOC SCI MED* 264: 113281

Selected research projects in Health Services Research

European Union's Horizon 2020 research and innovation programme. Grant agreement No 779292: 'ProgrammE in Costing, resource use measurement and outcome valuation for Use in multi-sectoral National and International health economic evaluations' — 'PECUNIA' (2018-2021), European Union (PI: Judith Simon)

Hamburg Centre for Health Economics: Young researcher group focusing on economics of informal care (2016-2021), German Ministry of Education and Research (PI: Christian Brettschneider)

Improving mental health in refugee families with young children – health economic evaluation (2019-2023), German Ministry of Education and Research (PI: Hans-Helmut König)

Prevention for more participation in old age - health economic evaluation (2020-2024), German Ministry of Education and Research (PI: Hans-Helmut König)

Interaction of systemic diseases and oral health in long-term care recipients (2021-2024), Innovationsfonds (PI: Alexander Konnopka)



Major research interests in Health Services Research

Research focuses on the areas of health care and implementation research in mental and chronic physical diseases, somato-psychological interactions, person-centered care and shared decision-making, quality of life prevention in children and young adults, cultural differences, as well as rehabilitation. By means of qualitative and quantitative primary studies, analyses of secondary data and meta-analytical approaches, the research groups analyze questions on needs and access to care, on treatment processes in in- and outpatient settings as well as health care outcomes. Methodological approaches include the development of assessment instruments for use in clinical routine and evaluation designs that allow causal statements and are generalizable to clinical practice. Clinical research with patients focuses on psychooncology and transplantation psychology. Finally, research in teaching regarding training courses in physician-patient and intercultural communication for medical students and health professionals are further important topics. Therefore, interweaving of clinical tasks and teaching with research is a particularly important feature of the department.

International and national cooperation in Health Services Research

The different research groups have stable and longstanding cooperation partners primarily within the Center for Health Care Research, the Center for Psychosocial Medicine and the University Comprehensive Cancer Center as well as the University Transplant Center, all linked to the UKE. Regional cooperation partners are manifold and encompass institutions of all care levels within the Hamburg Network for Health Services Research. National cooperation focuses on the large network of com-

prehensive cancer centers and the support of many professional organizations, e.g. the German Network for Health Services Research or the Agency for Quality in Medicine (Berlin). International cooperation exist with researchers and institutions worldwide, which are interested in person-centered care and shared-decision making, integrated care models as well as in psychooncology.

Selected publications in Health Services Research

Liebherz, S., Machmutow, K., Jansen, A., Meister, R., Watzke, B., Härter, M. & Kriston, L. (2017). Continuation and maintenance treatments for persistent depressive disorder. COCHRANE DB SYST REV, 2017(11), CD012855.

Härter, M., Watzke, B., Daubmann, A., Wegscheider, K., König, H.H., Brettschneider, C., Liebherz, S., Heddaeus, D. & Steinmann M. (2018). Guideline-based stepped and collaborative care for patients with depression in a cluster-randomised trial. SCI REP UK, 20, 8(1):9389.

Dwinger, S., Rezvani, F., Kriston, L., Herbarth, L., Härter, M. & Dirmaier J. (2020). Effects of telephone-based health coaching on patient-reported outcomes and health behavior change: A randomized controlled trial. PLOS ONE, 15(9):e0236861.

Andreas, S., Schulz, H., Volkert, J., Dehoust, M., Sehner, S., Suling, A., Ausín, B., Canuto, A., Crawford, M., Da Ronch, C., Grassi, L., Hershkovitz, Y., Muñoz, M., Quirk, A., Rotenstein, O., Santos-Olmo, A. B., Shalev, A., Strehle, J., Weber, K., Wegscheider, K., Wittchen, H.-U. & Härter, M. (2017). Prevalence of mental disorders in elderly people: the European MentDis_ICF65+ study. BRIT J PSYCHIAT, 210(2), 125-131.

Zill J, Christalle E, Meyer B, Härter M, Dirmaier J (2019) The effectiveness of an internet intervention aimed at reducing alcohol consumption in adults. DTSCH ARZTEBL INT, 116(8):127-133.

Selected research projects in Health Services Research

HAM-NET – the Hamburg Network of Health Services Research (2020-2023), Federal Ministry of Education and Research (PI: M. Härter)

Endowed Professorship „Health care research in rare diseases in children” (2019-2023) (Kindness-for-Kids-Foundation) (PI: C. Bergelt)

Young Investigator Research Group “ASPIRED”, Federal Ministry of Education and Research (2017-2022) (PI: I. Scholl)

BetweenLanguages - Curriculum for the nationwide minimum qualification of community interpreters, EU Asylum, Migration and Integration Fund (2019 - 2022) (PI: M. Mösko)

PRO-Onko-Routine – Development and implementation of a short instrument for measuring health-related quality of life in oncological patients for clinical use, Innovationsfonds (2017-2021) (PI: H. Schulz, C. Bleich)



Major research interests in Health Services Research

The main research and work focuses on the development of new therapeutic settings, integrated care models and the interplay of institutional factors with patient related factors in health care. This work is embedded in psychosocial and patient oriented tenor but includes knowledge and interventions based on biological psychiatry research. Major clinical care projects target on patient-centered and need adapted treatments, allocating more and specific intervention to patients with severe mental disorders and less intense but immediate treatment to mild diseases. A current project targets on mental care and therapy for migrants and refugees organized from a dedicated center (Centra) within a framework of professional therapeutic institutions and practices in Hamburg.

A further broad research field comprises the interaction between brain function/structure and mental training, virtual reality and environmental factors. Brain signatures and brain structure is directly modifiable, challenging previous scientific believes together with a high impact on future mental disorder intervention strategies. In this exiting research field latest methodological approaches in brain imaging are combined with cutting edge modeling approaches applied in clinical studies focusing on practical therapeutic interventions.

International and national cooperation in Health Services Research

Important international cooperation partners are the European Assertive Outreach Foundation (EAOFF) as a worldwide leading institution in integrated care and the Internationale Arbeitsgemeinschaft Soteria (IAS) representing core expertise in milieu-therapeutic approaches for schizophrenia patients. Close

relationships and joint projects are carried out with the Max Planck Institute for Human Development in Berlin, the Department for Psychiatry and Psychotherapy at the Charité Berlin, the Unit for Social and Community Psychiatry at the Queen Mary University London and The Functional Imaging Laboratory (FIL) at the Wellcome Trust in London.

Selected publications in Health Services Research

Stahn AC, Gunga HC, Kohlberg E, Gallinat J, Dinges DF, Kühn S. Brain Changes in Response to Long Antarctic Expeditions. *N Engl J Med.* 2020, 381: 2273-2275

Kühn S, Kugler DT, Schmalen K, Weichenberger M, Witt C, Gallinat J. Does playing violent video games cause aggression? A longitudinal intervention study. *Mol Psychiatry* 2018; 24(8):1220-1234

Gallinat J, McMahon K, Kühn S, Schubert F, Schaefer M. Cross-sectional Study of Glutamate in the Anterior Cingulate and Hippocampus in Schizophrenia. *Schizophr Bull* 2016;42:425-33

Gleich T, Deserno L, Lorenz R, Böhme R, Pankow A, Buchert R, Kühn S, Heinz A, Schlagenhaut F, Gallinat J. Prefrontal and striatal glutamate differently relate to striatal dopamine - potential regulatory mechanisms of striatal presynaptic dopamine function? *J Neurosci* 2015;35:9615-9621

Kühn S, Gallinat J. Amount of lifetime video gaming is positively associated with entorhinal, hippocampal and occipital volume. *Mol Psychiatry* 2014;19: 842-847

Kühn S, Gallinat J. Brains on porn: Structural correlates and functional connectivity associated with pornography consumption. *JAMA Psychiatry* 2014;71(7):827-834

Selected research projects in Health Services Research

Development and evaluation of the Hamburg Center for Refugees and Migrants; BGV support program (PI: J. Gallinat, S. Nick, I. Schäfer)

Model of cross-sectoral, coordinated, stepped, evidence-based care of mental disorders (RECOVER). Innovationsausschuss beim Gemeinsamen Bundesausschuss (01NVF16018) (PIs: M. Lambert, J. Gallinat, A. Karow)

Effectiveness of therapeutic video game training in mild cognitive impairment. BGV Hamburg, Z79004 2017 G500-02.10/10,011 (PI: J. Gallinat)

DFG Major Research Instrument Program: High-field magnetic resonance imaging in neuronal plasticity research in psychiatry. DFG INST 337/33-1 FUGG (PI: J. Gallinat)

GABA-glutamate interaction as neurochemical basis of cerebral resting-state dysfunction in depression and schizophrenia: A 7 tesla multimodal imaging project. DFG GA 707/7-1 (PI: J. Gallinat)



Center for Psychosocial Medicine

Department of Child and Adolescent Psychiatry and Psychotherapy

Interim Director: PD Dr. Carola Bindt;

Research Director: Prof. Dr. Ulrike Ravens-Sieberer

Major research interests in Health Services Research

The major research focuses on mental health and well-being, health care utilization, prevention and health promotion in children and adolescents comprising national and international research projects. This also includes the evaluation of outpatient and inpatient care, e.g. specialized services in the Child and Adolescent Department such as treatment of depression, transgender healthcare, or mother-infant-care, such as the CORESZON project (2017-2021, PI: Monica Blotevogel), which aims to build a Community Resilience Network. Population-based studies provide information on socio-demographic determinants of access as well as barriers to the utilization of health care services in children and adolescents with mental health problems. Research also identifies and evaluates differing models of access to child health services that are present across Europe. Methodological approaches include the development of assessment instruments for Patient Reported Outcomes (PROs) measuring health-related quality of life in healthy and chronically ill children and adolescents.

International and national cooperation in Health Services Research

All projects and research involve cooperation within the University Medical Center Hamburg-Eppendorf, national and international partners.

National cooperations comprise e.g. Robert Koch-Institute Berlin, Charité Berlin, Federal Ministry of

Health (BMG), Federal Ministry of Education and Research (BMBF), Federal Centre for Health Education (BZgA), Hertie School Berlin, University Medical Center Köln, Hamburger Arbeitsgemeinschaft für Gesundheitsförderung (HAG), University of Cologne, University of Ulm, Technical University Dresden, Central Institute of Mental Health, Mannheim. International cooperations comprise e.g. European Commission, US National Institute of Health, WHO.

Selected publications in Health Services Research

Barkmann, C., Otto, C., Meyrose, A.-K., Reiss, F., Wüstner, A., Voß, C., Erhart, M., & Ravens-Sieberer, U. (2021). Psychometrie und Normierung des Lebensqualitätsinventars KIDSCREEN in Deutschland. *Diagnostica*; 67, 2-12.

Kaman, A., Otto, C., Klasen, F., Westenhöfer, J., Reiss, F., Hölling, H., & Ravens-Sieberer, U. (2021). Risk and resource factors for depressive symptoms during adolescence and emerging adulthood – A 5-year followup using population-based data of the BELLA study. *Journal of Affective Disorders*, 280, 258-266.

Ravens-Sieberer U., Kaman A., Erhart M., Devine J., Schlack R., Otto C. (2021). Impact of the COVID 19 pandemic on quality of life and mental health in children and adolescents in Germany, *European Child & Adolescent Psychiatry*.

Otto, C., Reiss, F., Voss, C., Wüstner, A., Meyrose, A.-K., Hölling, H., & Ravens-Sieberer, U. (2020). Mental health and well-being from childhood to adulthood:

design, methods and results of the 11-year follow-up of the BELLA study. *European Child and Adolescent Psychiatry*; 1-19.

Ravens-Sieberer U., Kaman A., Otto C., Adedeji A., Devine J., Erhart M., Napp A.-K., Becker M., Blanck-Stellmacher U., Löffler C., Schlack R., Hurrelmann K. (2020). Mental health and quality of life in children and adolescents during the COVID-19 pandemic - results of the COPSY study. *Dtsch Arztebl Int*; 117, 828–9.

Selected research projects in Health Services Research

BELLA study - module on mental health and health-related quality of life within KiGGS (2003-2022), German Science Foundation, BMG, (PI: Ulrike Ravens-Sieberer)

CARE-FAM-NET – Children affected by rare disease and their families – research network (2018-2021), funding by “Innovationsfond des GB-A” (Innovation Found GB-A) (PI: Silke Wiegand-Grefe)

CHIMPs-NET – Children of mentally ill parents and their families (2019-2022), funding by “Innovationsfond des GB-A” (Innovation Found GB-A) (PI: Silke Wiegand-Grefe)

COPSY study - impact of the COVID-19 pandemic on the mental health of children and adolescents in Germany (2020 - 2022), Kroschke Children’s Foundation, Fritz and Hildegard Berg Foundation (PI: Ulrike Ravens-Sieberer)

INTEGRATE-ADHD - comparison and integration of administrative and epidemiological diagnostic data of attention-deficit/hyperactivity disorder (ADHD) through clinical assessment in Germany (2021-2023), “Innovationsfond des GB-A” (Innovation Found G-BA) (PI: Ulrike Ravens-Sieberer)



Center for Psychosocial Medicine

Department of Health Services Research in Dermatology and Nursing

Director: Prof. Dr. Matthias Augustin

Major research interests in Health Services Research

IVDP is a comprehensive research institute integrating health services research, clinical research and clinical care on international levels of quality and performance. Currently, IVDP staff includes more than 90 team members working in interdisciplinary research areas such as quality of care, patient registries, epidemiology, health economics and outcomes research, patient-reported outcomes, patient-centered healthcare, health Geography, evidence-based medicine and multi-source claims data analysis. Further research interests are in nutritional medicine and prevention, translational inflammation research and healthcare research in nursing, all covered with internationally renowned professors. Major clinical areas are skin diseases, allergies, chronic wounds and vascular diseases. The researchers of IVDP are leading experts in their fields on a global level and have international functions in consulting and health administration.

Outstanding research sections include the largest patient registry and biobank in dermatology guided by Prof. Reich, the Midwifery Science – Health Services Research and Prevention unit by Prof. Zyriax and the center for epidemiology and health services research in nursing led by Prof. Nienhaus.

International and national cooperation in Health Services Research

IVDP is member of several global networks reaching into 195 states and international organizations such as WHO, European commission and transcontinen-

tal associations. Research encompasses more than 5000 single collaborating partners worldwide. National collaboration has been started in re-search networks with more than 3000 dermatologists, several hundred hospitals, a large number of academic centers, federal and regional ministries as well as statutory health insurances.

Selected publications in Health Services Research

Andrees V, Wolf S, Augustin M, Mohr N, Augustin J. Regional Variations and Prevalence of Psoriasis in Germany from 2010 to 2017: A Cross-sectional, Spatio-epidemiological Study on Ambulatory Claims Data. *BMJ Open* 2021; 11 (11): e047806. (IF = 2,7)

Blome C, Klein TM. Classifying the Severity of Bullous Pemphigoid Disease. *Br J Dermatol* 2021; 184 (6): 997–998. (IF = 9,3)

Girbig G, Biedermann T, Hertl M, Elsner P, Welzel J, Hischke S, Honak L, Augustin M. Strukturen und Leistungsmerkmale der Hautkliniken in Deutschland: Aktuelle Bestandsaufnahme und Langzeitverlauf [Structures and Performance Characteristics of Dermatology Hospitals in Germany. Current Status and Long-term Development]. *J Dtsch Dermatol Ges* 2021; 19 (Suppl 5): 5–13. (IF = 5,6)

Mojtahedzadeh N, Neumann FA, Rohwer E, Nienhaus A, Augustin M, Harth V, Zyriax BC, Mache S. The Health Behaviour of German Outpatient Caregivers in Relation to the COVID-19 Pandemic: A Mixed-Methods Study. *Int J Environ Res Public Health* 2021; 18 (15): 8213. (IF = 3,4)

Papp KA, Weinberg MA, Morris A, Reich K. IL17A/F Nanobody Sonelokimab in Patients with Plaque Psoriasis: A Multicentre, Randomised, Placebo-controlled, Phase 2b Study. *Lancet* 2021; 397 (10284): 1564–1575. (IF = 79,3)

Reich K, Warren RB, Lebwohl M, Gooderham M, Strober B, Langley RG, Paul C, De Cuyper D, Vanvoorden V, Madden C, Cioffi C, Peterson L, Blauvelt A. Bimekizumab versus Secukinumab in Plaque Psoriasis. *N Engl J Med* 2021; 385 (2): 142–152. (IF = 74,7)

Selected research projects in Health Services Research

PsoBest Bioscience and BIOMAP: Translational research project from molecular genetics to health care in chronic inflammatory skin diseases. 2018–2023. Grants by the European Union, various scientific societies and donations. PI: Prof. Dr. Kristian Reich

The German National Program on Digital Transformation in Dermatology. 2019–2025. Grants by the German Society for Dermatology, the German Board of Dermatologists and private donators. PI: Prof. Dr. Matthias Augustin

Covid-19 in BGW insureds. Follow-up of disease progression. PI: Prof. Dr. Nienhaus

QT-Life: Early detection of QT prolongation as an adverse drug reaction.

Hamburg City Health Study (HCHS): Health of the population of Hamburg. PI: Prof. Dr. Zyriax



Department for Sex Research, Sex Medicine and Forensic Psychiatry

Director: Prof. Dr. Peer Briken

Major research interests in Health Services Research

The institute is one of the leading European institutions in the field of interdisciplinary sex research. Clinical researchers (i. e., medical and mental health professional) and their non-clinical colleagues (e. g., sociologists) work closely together.

Our main focus is on aspects of health research that include the following areas:

- sexual health and sexual health care research in Germany in general,
- care of patients with sexual problems and sexual dysfunctions in particular,
- transgender- und intersex-related health care and outcome research (e.g. E-Health-based interventions for transgender people),
- health care research on patients with paraphilic disorders and sexual offenders in different settings (Forensic Sexology),
- social science sex research,
- development of guidelines for conditions related to sexual health in the ICD-11, and case-control field trials for ICD-11 in the field of impulse control disorders and behavioral addictions.

Methodological approaches include clinical studies with a longitudinal design, studies applying participatory and/or community sampling strategies as well as surveys within the general population.

International and national cooperation in Health Services Research

Our research projects involve cooperation within the University Medical Center Hamburg-Eppendorf (UKE) as well as national and international partners. On a national level, we cooperate with with the Federal Centre for Health Education, the Federal Ministry of Education and Research and we are part of the Prevention Network “Kein Täter Werden”.

On an international level we work closely with European colleagues within the European Professional Association for Transgender Health (EPATH), the European Network for Psychosocial Studies in Intersex/Diverse Sex Development (EuroPSI), the International Association for the Treatment of Sexual Offenders (IATSO), the European Sexual Medicine Network: <https://www.esmn-cost.eu>

On a personal level cooperations exist with Prof. Stulhofer, Croatia, Prof. Fedoroff, Royal Ottawa, Ontario, Canada, Prof. Krueger, Prof. Reed, Columbia, New York and WHO, Prof. Traen, Oslo, Norway, Prof. Mercer, University College London, UK, Prof. Tkaschenko, Moskau, Russia, Prof. T’Sjoen, Ghent University Hospital, Belgium, Prof. Kreukels, VUMC, Amsterdam, Dr. Öberg, Stockholm, and Dr. Auer, LMU, München, Germany.

Selected publications in Health Services Research

Briken, P., Matthiesen, S., Pietras, L., Wiessner, C., Klein, V., Reed, G. M., & Dekker, A. (2020). Prävalenzschätzungen sexueller Dysfunktionen anhand der neuen ICD-11-Leitlinien. *Deutsches Ärzteblatt International*, 117(39), 653-658.

Dekker, A., Matthiesen, S., Cerwenka, S., Otten, M., & Briken, P. (2020). Gesundheit, sexuelle Aktivität und sexuelle Zufriedenheit. *Deutsches Ärzteblatt International*, 117(39), 645-652.

Garz, M., Schröder, J., Nieder, T.O., Becker, I., Biedermann, S., Hildebrandt, T., Briken, P., Auer, M., & Fuß, J. (2021). Body Image and Sexual Desire in the Context of Gender Affirming Therapy: Results of a Cross-sectional Multi-centered Transgender Study. *Journal of Sex and Marital Therapy*, eFirst, doi:10.1080/0092623X.2021.1888831

Nieder, T. O., Mayer, T. K., Hinz, S., Fahrenkrug, S., Herrmann, L., & Becker-Hebly, I. (2021). Individual Treatment Progress Predicts Satisfaction With Transition-Related Care for Youth With Gender Dysphoria: A Prospective Clinical Cohort Study. *Journal of Sexual Medicine*, 18(3), 632-645.

Schoon, W., & Briken, P. (2021). Obstacles in the Process of Dealing With Child Sexual Abuse—Reports From Survivors Interviewed by the Indepen-

dent Inquiry Into Child Sexual Abuse in Germany. *Frontiers in Psychology*, 12(1049). doi:10.3389/fpsyg.2021.619036

Selected research projects in Health Services Research

German Health and Sexuality Survey (GeSiD) (2018-2021). Federal Centre for Health Education, (PI: Peer Briken, Arne Dekker)

i2TransHealth—Interdisciplinary, internet-based transgender health care (2019-2022), funding by “Innovationsfond des GB-A” (Innovation Found GB-A) (PI: Timo Nieder, Arne Dekker, Peer Briken), Prevention Network for pedophilic patients. 2018-23, GKV-Spitzenverband (PI: Peer Briken);

Evaluation of the Social Therapy for incarcerated offenders in Hamburg (SoTha) (2010–2021), funded by the Justice Administration of the City State of Hamburg. (PI: Franziska Brunner, Peer Briken).



Center for Psychosocial Medicine

Department of Occupational and Maritime Medicine

Director: Prof. Dr. Volker Harth

Major research interests in Health Services Research

The department of Occupational and Maritime Medicine (ZfAM) has a wide range of research interests in the field of health services. Fundamental interests in occupational health services research include: improving occupational health care, including better integration of preventive and curative care; quality in occupational health care; considering the relation between work and health. Methodological approaches include quantitative and qualitative research studies and RCTs.

The department conducts projects e.g. in health care staff well-being, mental health, job performance and quality of care. Further research focuses on worksite physical and mental health promotion in different work settings (e.g. sanitation workers in Hamburg, freelancer in co-working spaces, expecting medical doctors in operating theatres, early detection of lung cancer after asbestos exposure, use of smart glasses in logistic companies). Medical guidelines to protect health and prevent work-related diseases are developed, e.g. a guideline for design and health aspects of night and shift work (<https://www.awmf.org/leitlinien/detail/ll/002-030.html>).

The department considers work site health promotion and prevention not only for land-based workplaces but also for maritime and off-shore working environments. Maritime health projects cover research in healthcare access for workers on the high seas, delivery and integration, telehealth, psychological and physical health problems, psychological functioning and health and safety-related issues. For safety-related issues toxicological analyses can be offered and included. Current research projects focus on the optimization of health management on board of container and merchant vessels and

the development of onboard health promotion. Research in health of offshore wind industry workers combines skills of maritime medicine and expertise in highly specialised occupational and mental health. The department's expertise in maritime and international health is further reflected in active participation in joint European research projects.

International and national cooperation in Health Services Research

The department has stable and longstanding cooperation partners within the Center for Health Care Research, the Center for Psychosocial Medicine, and the Hamburg City Health Study, UKE.

The cooperation partners are as diverse as the research projects; here is a selection:

- Federal Institute for Occupational Safety and Health, Germany
- The Institute for Prevention and Occupational Medicine of the German Social Accident Insurance, Ruhr University Bochum, Germany
- Port of Hamburg Health Center, Germany
- Robert Koch-Institute, Germany
- University of Thessaly, Greece
- National Institute for Public Health and the Environment (RIVM), The Netherlands

Selected publications in Health Services Research

Mojtahedzadeh N, Wirth T, Nienhaus A, Harth V, Ma-

che S. Job Demands, Resources and Strains of Out-patient Caregivers during the COVID-19 Pandemic in Germany: A Qualitative Study. *Int. J. Environ. Res. Public Health* 2021, Mar 14, 18(7):3684. doi:10.3390/ijerph18073684

Mache S, Servaty R, Harth V. Flexible work arrangements in open workspaces and relations to occupational stress, need for recovery and psychological detachment from work. *J Occup Med Toxicol.* 2020 Mar 19;15:5. doi: 10.1186/s12995-020-00258-z. eCollection 2020

Mache S, Hauschild I, Groneberg DA, Harth V. Neuro enhancement among German junior physicians: prevalence, reasons and associations to mental health outcomes and quality of life. *WORK* 2020; doi: 10.3233/WOR-203279.

Mette, J., Robelski, S., Wirth, T., Nienhaus, A., Harth, V., Mache, S. Engaged, Burned Out, or Both? A Structural Equation Model Testing Risk and Protective Factors for Social Workers in Refugee and Homeless Aid. *Int. J. Environ. Res. Public Health* 2020, 17, 583.

Preisser AM, Schlemmer K, Herold R, Laqmani A, Terschüren C, Harth V. Relations between vital capacity,

CO diffusion capacity and computed tomographic findings of former asbestos-exposed patients: a cross-sectional study. *J Occup Med Toxicol.* 2020; 15: 21.

Selected research projects in Health Services Research

BeGIn - Workplace health promotion in companies for diversity and inclusion according to §§215 ff SGB IX (2019-2022), Federal Ministry of Health (PI: V. Harth, S. Mache)

E-healthy ship - health promotion and health care in commercial shipping (2017-2021), European Regional Development Fund, (PI: V. Harth, M. Oldenburg)

ARMIHN - Adaptive resilience management in ports (2019 – 2021), Federal Ministry of Education and Research (PI (UKE): V. Harth, M. Oldenburg)

EU Healthy Gateways Joint Action - Preparedness and action at points of entry (ports, airports, ground crossings) (2018-2021), EU Third Health Programme (PI (Germany): V. Harth, J. Heidrich)



Center for Interdisciplinary Addiction Research

Director: Prof. Dr. Ingo Schäfer, MPH

Major research interests in Health Services Research

The ZIS is an interdisciplinary research center of the University of Hamburg, combining the expertise and research resources of four clinics and institutes of the University Medical Center Hamburg-Eppendorf (Psychiatry and Psychotherapy; Forensic Medicine; Medical Psychology, Medical Microbiology, Virology and Hygiene) and three social science departments of the University of Hamburg (Social and Political Science; Sociology; Criminological Social Science). It integrates the excellence of health care experts (e.g. medical doctors, psychologists, epidemiologists) and social science experts (sociologists, criminologists) in research on substance and non-substance associated addiction disorders and their consequences. The main fields of research in the center are problems related to alcohol and illegal drugs, somatic and psychiatric comorbidities (e.g. infectiology, psychological trauma) as well as pathological gambling. The methodological perspectives include qualitative research, statistics (i.e. longitudinal data analysis, clinical trials), clinical epidemiology, prevention and health care research.

International and national cooperation in Health Services Research

The ZIS puts a strong emphasis on collaborations within the Center for Health Care Research and on collaborations both on a national and international level. Many activities of the centre are part of national or European research networks. Moreover, the ZIS has regularly been involved in capacity building projects in the field of addiction in different parts of the world.

Selected publications in Health Services Research

Verthein U, Buth S, Daubmann A, Martens MS, Schulte B (2020) Trends in risky prescriptions of opioid analgesics from 2011 to 2015 in Northern Germany. *J Psychopharmacol*, 34:1210-1217. (IF 4.7)

Muehlhan M, Höcker A, Miller R, Trautmann S, Wiedemann K, Lotzin A, Barnow S, Schäfer I (2020). HPA axis stress reactivity and hair cortisol concentrations in healthy controls and recently detoxified alcoholics with and without childhood maltreatment. *Addiction Biology*, 25(1):e12681 (IF 5,9)

Lehmann K, Kuhn S, Baschiroto C, Jacobsen B, Walcher S, Görne H, Backmund M, Scherbaum N, Reimer J, Verthein U (2021) Substitution treatment for opioid dependence with slow-release oral morphine: Retention rate, health status, and substance use after switching to morphine. *Journal of Substance Abuse Treatment*, 127. doi.org/10.1016/j.jsat.2021.108350 (IF 2,7)

Lotzin A, Acquarini E, Ajdukovic D, Ardino V, Boettche M, Bondjers K, Bragesjo M, Dragan M, Grajewski P, Figueiredo-Braga M, Gelezelyte O, Darejan Javakishvili J, Kazlauskas E, Knefel M, Lueger-Schuster B, Makhashvili N, Mooren T, Sales L, Stevanovic A, Schäfer I (2020) Stressors, coping and symptoms of adjustment disorder in the course of the COVID-19 pandemic - study protocol of the European Society for Traumatic Stress Studies (ESTSS) pan-European study, *European Journal of Psychotraumatology*, 11:1. (IF 3,0)

Schulte B, Schmidt CS, Strada L, Rosenkranz M, Schäfer I, Verthein U, Reimer J (2020) Hepatitis C Virus Prevalence and Incidence in a Large Nationwide Sample of Patients in Opioid Substitution Treatment in Germany: A Prospective Cohort Study. Clin Infect Dis, 6:2199-2205. (IF 9,1)

Selected research projects in Health Services Research

Prevention and Treatment of Substance Use Disorders in Refugees (2019-2024), Federal Ministry of Education and Research (PI: I. Schäfer)

Evaluation of the 3rd revision of the Narcotic Drugs Prescription Ordinance (2019-2022), Federal Ministry of Health (PI: U. Verthein)

Scale-up of Prevention and Management of Alcohol Use Disorders and Comorbid Depression in Latin America (2017-2021), EU Horizon 2020 (PI: B. Schulte)

Implementing Methamphetamine Prevention Strategies into Action (2021-2023), EC, DG Migration and Home Affairs / Federal Ministry of Health (PI: U. Verthein)



German Center of Addiction Research in Childhood and Adolescence

Director: Prof. Dr. Rainer Thomasius

Major research interests in Health Services Research

The center's mission is to increase knowledge about risks and consequences of substance use and to contribute to improvement of services in the area of addiction prevention and treatment. The main research and work focus is on the prevention of addictive disorders including prevalent behavioral addictions like internet-related addictions, diagnosis, early intervention of substance use and abuse as well as epidemiology and clinical research on treatment services of out- and inpatient centers for children and adolescents with substance use disorders and behavioral addictions. In our basic and applied research, we take a contextual-developmental perspective on addictive behaviors and its associated psychopathology. Our applied research is conducted under externally valid conditions with a focus on family and school settings and studies are designed to have practically relevant implications to real world settings.

An important aspect in this context are issues of implementation, quality control and potential for long-term dissemination and transferability, e.g. by means of published intervention manuals. An important area for the center is to explore the effectiveness of technology-based (preventive) interventions for addictive behaviors among young people.

International and national cooperation in Health Services Research

The center has established close cooperative structures within the field of child- and adolescence psychiatry and clinical child- and adolescent psychology. Nationally we have been and currently are partner in several large research networks. In addition,

we are the coordinator of a network on addiction in childhood and adolescence uniting nine partners. Internationally we have existing cooperation with research institutes in the broader field of addiction research. In Europe, the center has coordinated the development of an internet-based platform for the prevention of risky substance use and is currently part of a European initiative to alcohol use prevention among the young in 11 countries. In Hamburg, there is a contracted cooperation with all major services for addiction prevention. Finally, the center is closely associated with the clinical care facilities at the UKE such as the Outpatient Treatment Center for Drug- and Alcohol-Abusing Adolescents, Young Adults and their Families (DAA), the Youth Addiction Treatment Center, the Addiction Day Treatment Center, as well as with further clinical and scientific departments of the UKE.

Selected publications in Health Services Research

Wartberg, L., Kriston, L. & Thomasius, R. (2020). Internet gaming disorder and problematic social media use in a representative sample of German adolescents: Prevalence estimates, comorbid depressive symptoms and related psychosocial aspects. *Comp Hum Behav* 103, 31-36. (IF: 5.003).

Özgen H, Spijkerman R, Noack M, Holtmann M., Thomasius R et al (2020). International Consensus Statement for the Screening, Diagnosis, and Treatment of Adolescents with Concurrent Attention-Deficit/Hyperactivity Disorder and Substance Use Disorder. *EUR Adicct Res* 26, 223–232. (IF: 2.645).

Paschke K, Austermann MI, Thomasius R. (2020). Assessing ICD-11 Gaming Disorder in Adolescent Gamers: Development and Validation of the Gaming

Disorder Scale for Adolescents (GADIS-A). *J Clin Med* 9, 993 (IF: 3.303).

Arnaud, N., Baldus, C., Elgán, T.H., Tønnesen, H., De Paepe, N., Csémy, L., Thomasius, R. (2016). Effectiveness of a web-based screening and fully automated brief motivational intervention for adolescent substance use: a randomized controlled trial. *J Med Internet Res* 18:e103. (IF: 5.175).

Ganzer, F., Bröning, S., Kraft, S., Sack, P.M., Thomasius, R. (2016). Weighing the evidence: a systematic review on long-term neurocognitive effects of cannabis use in abstinent adolescents and adults. *Neuropsychol Rev* 26, 186-222 (IF: 6.352).

Selected research projects in Health Services Research

RES@T - Resource-strengthening adolescent and parent training for media-related disorders (2021 – 2025), G-BA Innovationsfonds (PI: Rainer Thomasius, Kerstin Paschke)

PROHEAD – Promoting Help-seeking using E-tech-

nology for Adolescents: prevention of risky alcohol use (TP3) (2017-2021), Federal Ministry of Education and Research (PI Rainer Thomasius, Silke Diestelkamp)

IMAC-MIND – Improving Mental Health and Reducing Addiction in Childhood and Adolescence through Mindfulness: coordination (TPO); epidemiology of substance use disorders in children and adolescents (TP8) (2017-2021), Federal Ministry of Education and Research (PI Rainer Thomasius, Nicolas Arnaud)

IMAC-MIND – Substance use prevention in adolescence by the mindfulness-augmented Strengthening Families Program 10-14 (TP6); effects of mindfulness-based psychotherapy in adolescent in-patient treatment for substance use disorders (TP7) (2017-2021), Federal Ministry of Education and Research (PI Rainer Thomasius, Christiane Baldus)

Prevention and health promotion at vocational schools with a focus on addictive substance use and internet-related disorders among trainees (2019-2022), Federal Ministry of Health (PI Rainer Thomasius, Nicolas Arnaud)



Center for Experimental Medicine

Department of Medical Biometry and Epidemiology

Director: Prof. Dr. Heiko Becher

Major research interests in Health Services Research

Health and use of health care services in migrants,
with emphasis on resettlers

International and national coopera- tion in Health Services Research

Göttingen, Düsseldorf, München, Berlin, Rostock,
Zürich

Selected publications in Health Services Research

Breast cancer incidence and mammography
screening among resettlers in Germany, Kaucher S,
Khil L, Kajüter H, Becher H, Reder M, Kolip P, Spal-
lek J, Winkler V, Berens E, BMC PUBLIC HEALTH.
2020;20(1):417.

Cancer patients' preferred and perceived level of
involvement in treatment decision-making: an
epidemiological study. Hahlweg P, Kriston L, Scholl
I, Brähler E, Faller H, Schulz H, Weis J, Koch U, Weg-
scheider K, Mehnert A, Härter M. ACTA ONCOL.
2020;59(8):967-974.

Depression screening using patient-targeted fee-
dback in general practices: study protocol of the
German multicentre GET.FEEDBACK.GP randomi-
sed controlled trial. Kohlmann S, Lehmann M, Eisele
M, Braunschneider L, Marx G, Zapf A, Wegscheider
K, Härter M, König H, Gallinat J, Joos S, Resmark
G, Schneider A, Allwang C, Szecsenyi J, Nikendei
C, Schulz S, Brenk-Franz K, Scherer M, Löwe B. BMJ
OPEN. 2020;10(9):e035973.

Patient-reported outcomes predict return to work
and health-related quality of life six months after
cardiac rehabilitation: Results from a German mul-
ti-centre registry (OutCaRe). Salzwedel A, Koran I,
Langheim E, Schlitt A, Nothroff J, Bongarth C, Wren-
ger M, Sehner S, Reibis R, Wegscheider K, Völler H.
PLOS ONE. 2020;15(5):e0232752.

Effectiveness of Telephone-Administered Cogni-
tive-Behavioral Psychotherapy for Depression With
Versus Without Additional Letters: A Randomized
Controlled Trial. Steinmann M, Heddaeus D, Liebherz
S, Daubmann A, Härter M, Watzke B. TELEMED E-HE-
ALTH. 2020;26(3):347-353.

Selected research projects in Health Services Research

MultiTool (Development and evaluation of a compu-
ter-based tool providing information, structure and
guidance in the management of multimorbidity),
2021 – 2026, BMBF, PI Scherer / Schäfer

Res@t (Ressourcenstärkendes Adoleszenten- und
Eltern-Training bei Medienbezogenen Störungen),
2021 – 2025, G-BA Innovationsfonds, PI Thomasius /
Paschke

ElektRA (Elektive Förderung Rationaler Antibiotika-
therapie), 2021 – 2024, G-BA Innovationsfonds, PI
Liebrenz

I-COMET (Implementation of stepped and COLlabo-
rative care models for MEntal disorders by over-
coming Treatment sector barriers), 2020 – 2023, BMBF,
PI Härter

PERGOLA (Prädiktoren und Risikofaktoren für relevante chronische Erkrankungen und Inanspruchnahme gesundheitsbezogener Leistungen unter besonderer Berücksichtigung von Aussiedlern), second funding phase, 2019 – 2022, BMBF, PI Becher



Center for Internal Medicine

Department for Psychosomatic Medicine and Psychotherapy

Director: Prof. Dr. med. Bernd Löwe

Major research interests in Health Services Research

Research at the Clinic and Outpatients Clinic for Psychosomatic Medicine and Psychotherapy focuses on patients with persistent somatic symptoms, somatic symptom disorders, bodily symptoms in connection with chronic physical diseases, and on patients with eating disorders. We conduct research to enhance care for these patient groups taking into account the often chronic and untreated course of the disease for years. On the one hand, the latest findings from health care research guide our research questions; on the other hand, patient care in our clinic gives us a privileged insight into the experience of those affected, their worries, fears and how they deal with the disease. At the same time, the voice of care providers plays an important role in our research, e.g. general practitioners and secondary care providers. Our empirical research methods range from qualitative methods to randomized controlled trials.

International and national cooperation in Health Services Research

EURONET-SOMA is a European expert network of clinicians and scientists led by our department to improve the care of people with persistent somatic symptoms (<https://www.euronet-soma.eu/>). Representatives from countries with established psychosomatic patient care and those from countries with less established care discuss to what extent patient care can be better harmonized across national borders. Joint publications, the promotion of young scientists and the use of interfaces to politics are core activities of the network.

We also participate in the lead of Encompassing Training in fUnctional Disorders across Europe (ETUDE). ETUDE is a Marie Skłodowska-Curie Innovation Training Network (ITN), funded by the European Commission, Horizon 2020 Program. The initiative originated from the EURONET-SOMA network and provides three years of PhD training for early stage researchers. We also take part in the lead of the clinical research qualification program, which is dedicated to promoting the scientific competence of doctoral students in psychosomatic research in Germany.

Selected publications in Health Services Research

Depping M, Uhlenbusch N, Härter M, Schramm C, Löwe B. Efficacy of a Brief, Peer-Delivered Self-management Intervention for Patients With Rare Chronic Diseases: A Randomized Clinical Trial. JAMA PSYCHIATRY. 2021 [Epub ahead of print].

Lehmann M, Pohontsch N, Zimmermann T, Scherer M, Löwe B. Diagnostic and treatment barriers to persistent somatic symptoms in primary care – representative survey with physicians. BMC FAM PRACT. 2021;22(1):60.

Toussaint A, Hüsing P, Kohlmann S, Brähler E, Löwe B. Excessiveness in symptom-related thoughts, feelings, and behaviors: An investigation of somatic symptom disorders in the general population. PSYCHOSOM MED. 2021;83(2):164-170.

Kohlmann S, Lehmann M, Eisele M, Braunschneider L, Marx G, Zapf A, Wegscheider K, Härter M, König H, Gallinat J, Joos S, Resmark G, Schneider A, Allwang

C, Szecsenyi J, Nikendei C, Schulz S, Brenk-Franz K, Scherer M, Löwe B. Depression screening using patient-targeted feedback in general practices: study protocol of the German multicentre GET.FEEDBACK.GP randomised controlled trial. *BMJ OPEN*. 2020;10(9):e035973.

Weigel A, Zum Felde T, Kästner D, Schmidt J, Gumz A, Löwe B. Insight into the Onset of Treatment in Patients with Anorexia nervosa: a multi-perspective, qualitative Study. *Z PSYCHOSOM MED PSYC*. 2020;66(1):122-122.

Selected research projects in Health Services Research

SOMACROSS - Persistent somatic symptoms across diseases: from risk factors to modification (2021-2025), DFG - Deutsche Forschungsgemeinschaft (PI: B. Löwe)

GET.FEEDBACK.GP – Depressionsscreening in der Hausarztpraxis: Steigerung der klinischen Effektivität und ökonomischen Effizienz durch patienten-orientiertes Feedback (2018-2022), Innovationsfonds des G-BA zur Förderung von Versorgungsforschung (PI: B. Löwe)

DISCOVER - Wirksamkeit einer web-basierten Feedbackintervention nach Depressionsscreening: eine randomisiert kontrollierte Studie (2020-2023), DFG - Deutsche Forschungsgemeinschaft (PI: S. Kohlmann)

FABIANA - Identifizierung förderlicher und hemmender Faktoren für die Behandlungsaufnahme bei Patientinnen mit Anorexia nervosa: Ein Weg zur wirksamen Sekundärprävention und Prognoseverbesserung, DFG - Deutsche Forschungsgemeinschaft (PI: B. Löwe)

BeSSD-GP - Identification of barriers and difficulties involved in the process of diagnosing somatic symptom disorders in primary care (2015-2018), DFG - Deutsche Forschungsgemeinschaft (PI: B. Löwe)



Center for Internal Medicine

I. Department of Medicine (Gastroenterology, Infectiology, Tropical Medicine)

Director: Prof. Dr. Ansgar W. Lohse

Major research interests in Health Services Research

The main focus of health services research of the I. Department of Medicine is both on the quality of life in liver disease as well as on the quality of care in rare liver diseases. This includes studies and evaluations regarding the effects of different kinds of treatments in various (rare) liver diseases, surveys regarding life style and the adherence to therapy schemes but also the evaluation and development of examinations. The department is contributing actively to the development of national and international guidelines regarding treatment of rare liver diseases (e.g. autoimmune hepatitis, primary sclerosing cholangitis; primary biliary cholangitis).



International and national cooperation in Health Services Research

The Director of the I. Department of Medicine is the coordinator of the European Reference Network on Rare Liver Diseases (ERN RARE LIVER) which is a network of health care professionals in hospitals all over Europe, pooling their expertise to provide best possible care and treatment for European citizens.

Furthermore, the department is well-represented in the International Autoimmune Hepatitis Group (IAIHG) and the International Primary Sclerosing Cholangitis Study Group (IPSCSG). Both study groups consist of international experts in the field of Hepatology.

Selected publications in Health Services Research

Jones DEJ, Sturm E, Lohse AW. Access to care in rare liver diseases: New challenges and new opportunities. *J Hepatol.* 2018;68:577-585.

Schramm C, Wahl I, Weiler-Normann C, Voigt K, Wiegard C, Glaubke C, Brähler E, Löwe B, Lohse AW, Rose M. Health-related quality of life, depression, and anxiety in patients with autoimmune hepatitis. *J Hepatol.* 2014; 60:618-24.

Department of Prosthetic Dentistry

Director: Prof. Dr. Guido Heydecke

Major research interests in Health Services Research

The department's research projects are focused on three main areas:

- 1) assessing factors affecting long-term outcomes of oral rehabilitation with particular focus on dental implants;
- 2) investigating the epidemiology, public health impact, and dental as well as psychosocial risk factors for important orofacial pain conditions; and
- 3) supporting the shift in dentistry from a focus on clinical parameters to a real patient-orientation by increasing the importance of patient-centered outcomes and strengthening the role of patients in clinical decision-making.

Methodological approaches include the use of primary data from longitudinal cohort studies (i.e. Hamburg City Health Study (HCHS), NAKO Health Study), case-control studies and randomized controlled intervention studies, the analyses of secondary data and the combination of several data sources, and the development and testing of instruments for the assessment of patient-reported outcomes. Findings are readily translated into the clinical practice to improve prevention and patient care.

International and national cooperation in Health Services Research

The different research groups cooperate with partners within the Center for Health Care Research, the Center for Psychosocial Medicine, and the Institute of Medical Biometry and Epidemiology at the UKE. The department participates in the Hamburg City Health Study. National cooperation is focused

on the NAKO Health Study and large prospective multi-center studies, and many international collaborations are established with several research institutions and universities worldwide, e.g. the International Network for Orofacial Pain & Related Disorders Methodology (INFORM), the University of Newcastle, the University of Bern, and the University of Minnesota.

Selected publications in Health Services Research

Reissmann DR. Methodological considerations when measuring oral health-related quality of life. *J Oral Rehabil.* 2021;48(3):233-245 (IF: 3.84)

Lamprecht R, Struppek J, Heydecke G, Reissmann DR. Patients' criteria for choosing a dentist: Comparison between a university-based setting and private dental practices. *J Oral Rehabil.* 2020;47(8):1023-30. (IF: 3.84)

Reissmann DR. Dental Patient-Reported Outcome Measures Are Essential for Evidence-Based Prosthetic Dentistry. *J Evid Based Dent Pract.* 2019 Mar;19(1):1-6 (IF: 5.27)

Reissmann DR, Bellows JC, Kasper J. Patient Preferred and Perceived Control in Dental Care Decision Making. *JDR Clin Trans Res* 2018. doi: 10.1177/2380084418811321.

Reissmann DR, Wolfart S, John MT, Marré B, Walter M, Kern M, Kohal R, Nothdurft F, Stark H, Schierz O, Wöstmann B, Hannak W, Mundt T, Pospiech P, Boldt J, Edelhoff D, Busche E, Jahn F, Luthardt RG, Hartmann S, Heydecke G. Impact of shortened dental arch on oral health-related quality of life over a period of 10 years - A randomized controlled trial. *J Dent.* 2019 Jan;80:55-62 (IF: 4.38)

Selected research projects in Health Services Research

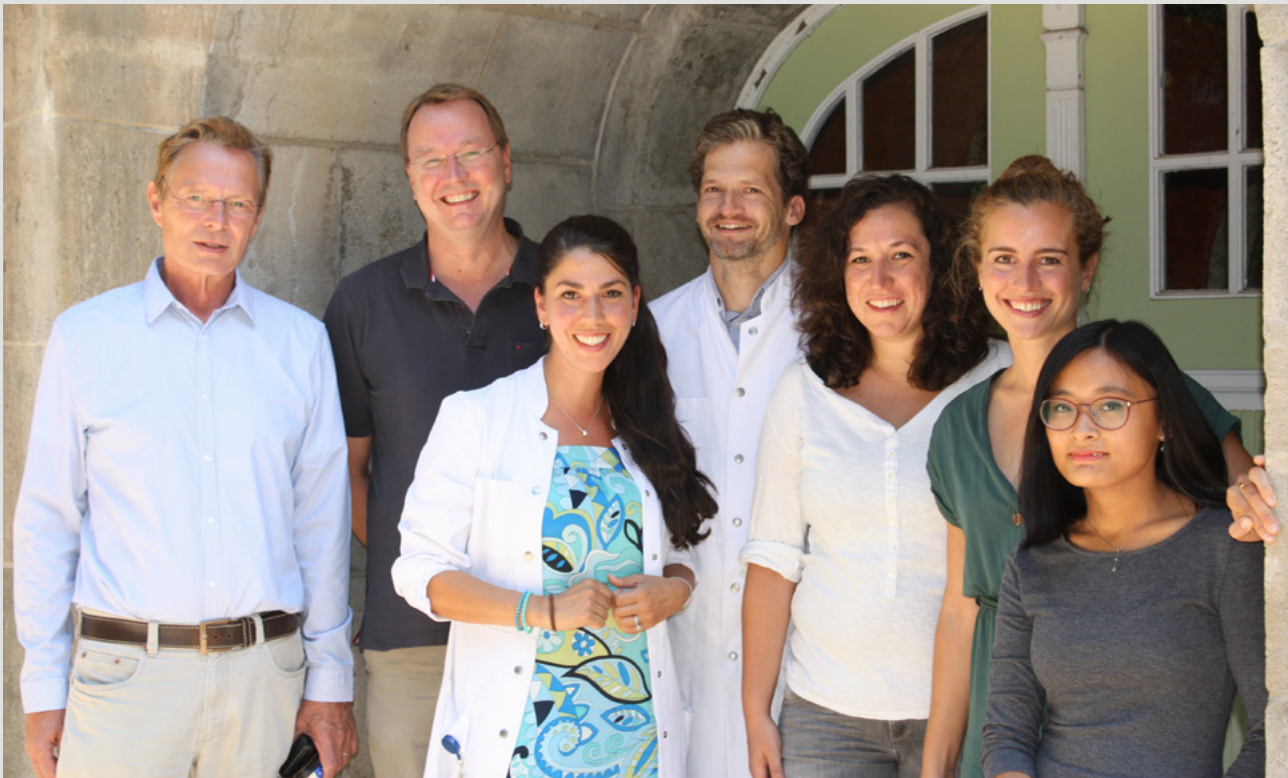
MuMi-project: Promoting Oral Health Literacy in Immigrants in Hamburg, Germany, Innovationsfond des Gemeinsamen Bundesausschuss (PI: G. Aarabi)

Systematic Review: „Interventions for improvement of oral health in nursing home residents“, German Federal Ministry of Education and Research (PI: M Bunge)

BOMAP: Bruxism and occlusion as risk factors for Temporomandibular Disorders (TMD), German Research Foundation, DFG (PI: DR Reissmann)

PhOX: Development and validation of the Physical Oral Health Index, German Federal Ministry of Education and Research (PI: DR Reissmann)

Participation preferences and information transfer in decision-making in the context of oral rehabilitation, Fund for Research of Hamburg University (PI: DR Reissmann)



Center for Geriatrics and Gerontology

Albertinen-Haus, Center of Geriatrics and Gerontology, Scientific Department at the University of Hamburg

Director: Prof. Dr. Ulrich Thiem, Research coordinator: Dr. rer. nat. Ulrike Dapp

Major research interests in Health Services Research

The Geriatrics Research Department has its main responsibility in documenting and evaluating various types of healthcare provision in older persons including geriatric in- and outpatients. Main topics are functional ageing and disability prevention, unwanted events (i.e. falls and fractures, frailty, sarcopenia, potentially inappropriate medication), risk management and patient safety.

Over the past 20 years, the Albertinen-Haus (AH) has conducted studies on comprehensive geriatric assessment (CGA) in close collaboration with general practitioners. Research includes health care provision for older patients as well as health service research and educational interventions for specific target groups of community-dwelling senior citizens and health care professionals (i.e. programmes “active health promotion in old age”, “preventive home visits”, and quality circles).

International and national cooperation in Health Services Research

In 2000, the still ongoing Longitudinal Urban Cohort Ageing Study (LUCAS) was established for periodic surveys. The main focus is to study particular aspects of health and functional competence, its changes with ageing, to detect pre-clinical signs of functional decline, and to address questions on how to maintain functional competence and to prevent adverse outcome. In 2007, a series of studies began under the LUCAS umbrella, coordinated by the AH Research Department. Most projects were grouped around the core project - the longitudinal LUCAS co-

hort. Validation of self-reported data was achieved by using extended CGA. To analyse for representativeness, a cross-sectional comparative study was initiated by the City of Hamburg and used for the Federal State Health Report (GBE). Since 2016, the LUCAS cohort and nine further longitudinal urban cohorts represent the European MINDMAP consortium. The basis for dissemination is the long-established regional, national and European network, i.e. “Pakt f. Prävention HH”, BMBF umbrella “Gesundheit im Alter”, Action Plans of the European Innovation Partnership on Active and Healthy Ageing (EIP AHA): A2: “Falls Prevention Initiative” & D4: “Innovation for age-friendly buildings, cities & environments”, European Union Network for Patient Safety and Quality of Care (PaSQ), European Academy for Medicine of Ageing (EAMA) and the MINDMAP consortium.

Selected publications in Health Services Research

Dapp U, Minder CE, Golgert S, Klugmann B, Neumann, L, von Renteln-Kruse W (2021): The inter-relationship between depressed mood, functional decline and disability over a 10-year observational period within the Longitudinal Urban Cohort Ageing Study (LUCAS). *J Epidemiol Community Health* 2021;75:450–457. doi:10.1136/jech-2020-214168

Neumann L, Dapp U, Böttcher-Völker S, Kleinhans E, von Renteln-Kruse W (2021): The “Hamburg home visit for older citizens”. Development, execution and acceptance in 4716 older people in 15 months. *Z Gerontol Geriatr* 2021; e-pub ahead: <https://doi.org/10.1007/s00391-021-01878-8>

González-González AI, Meid AD, Dinh TS, Blom JW, van den Akker M, Elders PJM, Thiem U, De Gaudry

DK, Swart KMA, Rudolf H, Bosch-Lenders D, Trampisch HJ, Meerpohl JJ, Gerlach FM, Flaig B, Kom G, Snell KIE, Perera R, Haefeli WE, Glasziou PP, Muth C. A prognostic model predicted deterioration in health-related quality of life in older patients with multimorbidity and polypharmacy. *J Clin Epidemiol.* 2021 Feb;130:1-12.

Dapp U, Minder CE, Neumann L, Golgert S, Klugmann B, von Renteln-Kruse W (2018): Effectiveness of „Active health promotion in old age“: Results regarding compression of morbidity by target groups in 13.8 years of observation in LUCAS. *Z Gerontol Geriatr* 2018; 51:379-381.

Neumann L, Dapp U, Jacobsen W, van Lenthe F, von Renteln-Kruse W (2017): The MINDMAP project: mental well-being in urban environments. *Z Gerontol Geriatr* 2017; 50:588-602

Selected research projects in Health Services Research

LUCAS AGIL - Longitudinal Urban Cohort Ageing Study (2020 - 2022), Evidence-based health promotion and prevention in old age and intervention transfer into health care, Federal Ministry of Education and Research (BMBF) (PI: U. Thiem)

Hamburger Hausbesuch für Seniorinnen und Senioren / Hamburg home visit for older people (2018-2021), Hamburg Ministry of Social Affairs, Health and Consumer Protection (PIs: L. Neumann, U. Dapp)

NWGA – NetzWerk GesundAktiv / Living independently in your neighborhood for longer: Evaluation of acceptance, structures and processes (2017-2021), G-BA Innovationsfonds (PIs: U. Thiem, W. v. Renteln-Kruse until 2018)

MINDMAP – Promoting mental well-being and healthy ageing in cities (2016-2020), European Commission, Horizon 2020 (German participating longitudinal urban ageing cohort: LUCAS; partner Germany: Albertinen-Haus, PI: U. Dapp)



Major research interests in Health Services Research

- Domestic violence, sexual violence and rape (men, female, diverse).
- Child abuse, neglect, sexual violence and rape with overall more than 850 examinations in our specialized outpatient department ("Kinder-KOMPT") annually.
- Elderly abuse, epidemiology of decubitus and neglect.
- Self-inflicted injuries.
- Physical examinations to collect forensic evidence confidentially and independently of any police report after domestic or sexual violence in Hamburg and in the south of Schleswig-Holstein ("Vertrauliche Spurensicherung") or with a police report.
- Substance abuse, alcohol abuse. Acute intoxications, analytical toxicology, including hair analysis from drug addicted parents. Traffic medical examination after revocation of a drivers license after substance or alcohol abuse. Criminality in relation to substance abuse.
- Paternity test.
- Suicides, committed suicides, suicidal behavior.

International and national cooperation in Health Services Research

- National and local authorities like the public prosecutor, criminal and civil courts, official channels of the government.
- International partnership esp. with very different countries like Rwanda, New Zealand and Mexico.

Selected publications in Health Services Research

Klein A, Edler C, Fitzek A, Fröb D, Heinemann A, Meißner K, Mushumba H, Püschel K, Schröder AS, Sperhake J, Ishorst-Witte F, Sepfelbacher M, Heinrich F / Der erste COVID-19-Hotspot in einer Hamburger Senioreneinrichtung: Präventionskonzept, Letalität und Obduktionbefunde. Rechtsmedizin (2020) 30:325–331

Müller A, Iwersen-Bergmann S / Determination of ethyl glucuronide in human hair samples: Decontamination vs extraction. Drug Test Anal (2020) 12:948-956

Szewczyk A, Hof C, Müller A, Kocyigit D, Jungen H, Aboutara N, Iwersen-Bergmann S, Andresen-Streichert H / Vorkommen und Bedeutung von Pregabalin bei Verkehrsdelikten in Deutschland. (2020) Blutalkohol 57:197-203

Focken M, Steffen F, Püschel K / Der diabetische Fahrzeugführer - zur Frage der Fahreignung. Blutalkohol (2020) 57:331-338

Ewert Jo N, Seifert D / Kindesmisshandlung interdisziplinärer Kinderschutz. Pädiatrie up2date (2020) 15:259-277

Niederauer T, Sperhake J, Püschel K / Forensische Pädopathologie: Kindesvernachlässigung und die Komplexität der Aufarbeitung: Der Fall X. Päd. (2020) 6:393-399

Püschel K, Kluge S, Addo M, Aepfelbacher M / Von den Toten lernen - neue Erkenntnisse zu Covid-19. Hamburger Ärzteblatt (2020) 73:34-36

Lohner L, Süße A, Polac M, Kühne O-C, Anders S /

Nichtakzidentelle gewaltbedingte Verletzungen in chirurgischen Notaufnahmen in Hamburg - Eine Auswertung der Inzidenz und Ursachen interpersoneller Gewalt in drei Hamburger Notaufnahmen. Rechtsmedizin (2021) <https://doi.org/10.1007/s00194-021-00458-9>

Bertram F, Heinrich F, Fröb D, Wulff B, Ondruschka B, Püschel K, König H-H, Hajek A / Loneliness among Homeless Individuals during the First Wave of the COVID-19 Pandemic. Int J Environ. Res Public Health (2021) 18:3035

Heimann T, Ewert J, Metzner F, Sigmund F, Jud A, Pawils S / Medizinischer Kinderschutz während des Corona-Lockdowns - Vergleichende Befunde der Kinderschutzfälle aus Kliniken und Ambulanzen in Deutschland. Kinderheilkunde (2021) 169:346-352



Major research interests in Health Services Research

Our research deals with the inpatient health care of elderly persons undergoing surgery. This includes preparing patients for planned surgery in the interface between the outpatient and inpatient sector as well as patient-centered care pathways within the hospital after a patient's admission. Our projects focus on the development of concepts for prehabilitation, evaluation of screening tools to identify elderly patients at risk prior to surgery and suitable assessments in the preoperative setting. Special emphasis is put on cognitive function, frailty and prevention strategies against post-operative cognitive dysfunction and delirium. Major outcome parameters are, among others, cognitive performance, complication rate, functional status and health-related quality of life.

International and national cooperation in Health Services Research

We have a network of cooperation partners within the UKE including the Center for Psychosocial Medicine, the University Heart Center GmbH, the Center for Surgical Sciences, the Patient and Care Management, the UKE Pharmacy and the Department for Physiotherapy. On the national level we work together with many centers engaged in perioperative geriatric medicine and neurocognitive aging. We established a network of partners via the commission of geriatric anaesthesia within the German Society of Anaesthesiology and Intensive Care Medicine (DGAI). Internationally, we are linked to other geriatric anaesthesia research groups via the European Society of Anaesthesiology and Intensive Care (ESAIC) and the Society for the Advancement of Geriatric Anesthesia (SAGA).

Selected publications in Health Services Research

Comparison of the ‚4-item assessment test‘ and ‚nursing delirium screening scale‘ delirium screening tools on nonintensive care unit wards: A prospective mixed-method approach (2021) Zastrow, I., Tohsche, P., Loewen, T., Vogt, B., Feige, M., Behnke, M., Wolff, A., Kiefmann, R., & Olotu, C. Eur J Anaesth

The Perioperative Care of Older Patients (2019). Olotu, C., Weimann, A., Bahrs, C., Schwenk, W., Scherer, M., & Kiefmann, R. Dtsch Arztebl Int, 116(5), 63-69.

Determinants of Perioperative Outcome in Frail Older Patients (2019) Mende, A., Riegel, A-K., Plümer, L., Olotu, C., Goetz, A. E., & Kiefmann, R. Dtsch Arztebl Int, 116(5), 73-82

Anästhesiologische Behandlungspfade für ältere Patienten. (2018) Olotu, C. in J. Eckart, K. Jaeger, & T. Möllhoff (Hrsg.), Anästhesiologie: Kompendium und Repetitorium zur Weiter- und Fortbildung (60. Aufl., S. 1-14). [10.3] ecomed Medizin.

Leitlinien kompakt: Perioperative Versorgung demenzkranker Patienten. Mende, A., Olotu, C., & Kiefmann, R. (2019) Anasthesiol Intensivmed Notfallmed Schmerzther,(08(04)), 242-251.



Selected research projects in Health Services Research

TRAILTY: (RCT) Preoperative physical training for elderly patients with frailty (started 2019); PI: C. Olotu

PHAROS: (RCT) Pharmaceutic management of elderly patients at risk in the perioperative setting (started 2018) Federal Ministry of Health (PI: C. Olotu)

PeriAge: (feasibility study) Improvement of Perioperative Care of Elderly Patients (started 2017) In-

novation funds of the Federal Joint Committee (PI: C.Olotu)

DelPOCD: (RCT) Do postoperative delirium prevention methods also work against postoperative cognitive dysfunction? (2014-2018); Johanna und Fritz Buch Gedächtnis-Stiftung (PI: R.Kiefmann)

DeprPOCD: (observational study) Correlation between depression and postoperative cognitive dysfunction) (2014-2017); Johanna und Fritz Buch Gedächtnis-Stiftung (PI: R.Kiefmann)



Department of Vascular Medicine

Director: Prof. Dr. E. Sebastian Debus

Research Group GermanVasc Head:

PD Dr. med. Christian-Alexander Behrendt

Major research interests in Health Services Research

The major research interests in health services research at the department of vascular medicine concern the utilization of administrative health insurance claims data and clinical registries on cardiovascular diseases. The research group GermanVasc® at the department was founded in 2014 and is currently embedded in numerous ongoing real-world evidence projects. An international general data protection regulation (GDPR) compliant registry-platform was implemented to collect high-quality registry data from institutions in Germany, Luxembourg, and Romania. Between 2016 and 2020, approximately 40 original contributions in highly ranked journals were published by the research group. Together with a consortium of health services researchers, information scientists, and law scientists, the research group is currently developing learning risk scores to predict major outcomes in patients suffering from peripheral arterial disease. Several ongoing projects concern the use of (big) data methods, mobile devices, and wearables, in data driven research and care.

International and national cooperation in Health Services Research

- VASCUNET Committee of the European Society for Vascular Surgery (Chair: Christian-Alexander Behrendt)
- Medical Device Epidemiology Network Chapter Germany (Chair: Christian-Alexander Behrendt)
- International Consortium of Vascular Registries (ICVR)

Selected publications in Health Services Research

Behrendt CA, Seiffert M, Gerloff C, L'Hoest H, Acar L, Thomalla G. How does SARS-CoV-2 infection affect survival among patients with cardiovascular emergencies? A cohort study from a German insurance claims database. *Eur J Vasc Endovasc Surg.* 2021;In Press. DOI: 10.1016/j.ejvs.2021.03.006

Peters F, Kuchenbecker J, Kreutzburg T, Marschall U, Debus ES, Behrendt CA. Long-Term Effectiveness and Safety of Initiating Statin Therapy After Index Revascularization In Patients With Peripheral Arterial Occlusive Disease. *J Am Heart Assoc.* 2020;9:e018338.

Behrendt CA, Sigvant B, Kuchenbecker J, Grima MJ, Schermerhorn M, Thomson IA, Altreuther M, Setacci C, Svetlikov A, Laxdal EH, Goncalves FB, Secemsky EA, Debus ES, Cassar K, Beiles B, Beck AW, Mani K, Bertges D. Editor's Choice - International Variations and Gender Disparities in the Treatment of Peripheral Arterial Occlusive Disease – A report from VASCUNET and the International Consortium of Vascular Registries. *Eur J Vasc Endovasc Surg.* 2020;60:873-880.

Behrendt CA, Sedrakyan A, Peters F, Kreutzburg T, Schermerhorn M, Bertges DJ, Larena-Avellaneda A, L'Hoest H, Kölbl T, et al. Editor's Choice - Long Term Survival After Femoropopliteal Artery Revascularizations With Paclitaxel-Coated Devices – A propensity score matched cohort analysis. *Eur J Vasc Endovasc Surg.* 2020;59:587-596.

Kreutzburg T, Peters F, Rieß HC, Hischke S, Marschall U, Kriston L, L'Hoest H, Sedrakyan A, Debus ES, Behrendt CA. Editor's Choice - Comorbidity Patterns among Patients with Peripheral Arterial Occlusive Disease in Germany – A Trend Analysis of Health

Insurance Claims Data. Eur J Vasc Endovasc Surg. 2020;59:59-66.

Selected research projects in Health Services Research

RABATT Study („Risikoscore für eine Algorithmenbasierte Behandlerunabhängige Aufklärung zum Therapieerfolg und zur Therapieempfehlung“, 2019-2022, Innovationsfond G-BA, C.-A. Behrendt)

INCREASE Study („INterdisziplinäre und sektorenübergreifende Versorgung in der HerzChiRurgiE am Beispiel von minimal-invASiven HERzklappeneingriffen“, 2020-2024, Innovationsfond G-BA, E. Girdauskas, Sub-PI (Routinedaten): C.-A. Behrendt)



Major research interests in Health Services Research

The department encompasses all fields of urology with particular expertise in reconstructive and pediatric urology, surgical oncology including minimally invasive techniques and the endoscopic treatment of bladder outlet obstruction. In addition to clinical studies and contributions to international multi-center trials in oncology, health services research in the department of urology focuses mainly on health outcomes based in the above-mentioned areas of expertise.

Methodological approaches concern the development of patient reported outcome measures (PROMS) for reconstructive surgeries and the implementation of digitally enhanced follow-up questionnaires for cancer survivors. With a strong focus on secondary data analysis, the department is involved in many international studies concerning surgical and oncological outcomes, as well as training and teaching concepts and their influence on daily practice.

Moreover, public health issues such as health system related predictors of patient empowerment, patient knowledge and the identification of preventive behavior are cornerstones within international collaborations.

International and national cooperation in Health Services Research

The department has stable and longstanding cooperation partners within the Center for Health Care Research, the Martini-Clinic and the University Comprehensive Cancer Center, all linked to the UKE. National cooperation exist within professional organization such as the German Urological Association and to adress issues of access to care and regionalization of surgical services. International cooperation exist with research institutions worldwide (Montreal, Boston, Vienna), which are interested in oncological outcomes research and health services research. The department is part of the European Reference Network initiative of the European Commission (eUROGEN).

Selected publications in Health Services Research

Zavaski ME, Hanske J, Loppenberg B, ..., Meyer CP. Contemporary perceptions of human papillomavirus and penile cancer: Perspectives from a national survey. Canadian Urological Association journal = Journal de l'Association des urologues du Canada 2018.

Meyer CP, Krasnova A, Sammon JD, et al. Accountable care organizations and the use of cancer screening. Preventive medicine 2017;101:15-17.

Meyer CP, Sun M, Karam JA, et al. Complications After Metastasectomy for Renal Cell Carcinoma-A Population-based Assessment. European urology 2017;72:171-74.

Vetterlein MW, Löppenber B, Karabon P, Dalela D, Jindal T, Sood A, Chun FK, Trinh QD, Menon M, Abdollah F. Impact of travel distance to the treatment facility on overall mortality in US patients with prostate cancer. *Cancer*. 2017 Sep 1;123(17):3241-3252. doi: 10.1002/cncr.30744. Epub 2017 May 4. PMID: 28472547.

Zavaski ME, Meyer CP, Sammon JD, et al. Differences in Prostate-Specific Antigen Testing Among Urologists and Primary Care Physicians Following the 2012 USPSTF Recommendations. *JAMA internal medicine* 2016;176:546-7.

Gild P, Wankowicz SA, Sood A, von Landenberg N, Friedlander DF, Alanee S, Chun FKH, Fisch M, Menon

M, Trinh QD, Bellmunt J, Abdollah F. Racial disparity in quality of care and overall survival among black vs. white patients with muscle-invasive bladder cancer treated with radical cystectomy: A national cancer database analysis. *Urol Oncol*. 2018 Oct;36(10):469.e1-469.e11. doi: 10.1016/j.urolonc.2018.07.012. Epub 2018 Aug 20. PMID: 30139659.

Cole AP, Ramaswamy A, Harmouch S, Fletcher SA, Gild P, Sun M, Lipsitz SR, Chiang HA, Haider AH, Preston MA, Kibel AS, Trinh QD. Multilevel Analysis of Readmissions After Radical Cystectomy for Bladder Cancer in the USA: Does the Hospital Make a Difference? *Eur Urol Oncol*. 2019 Jul;2(4):349-354. doi: 10.1016/j.euo.2018.08.027. Epub 2018 Sep 25. PMID: 31277772.



Center for Surgical Science

Department of Trauma and Orthopaedic Surgery, Chair of Orthopaedics

Director: Prof. Dr. Frank Timo Beil

Major research interests in Health Services Research

The clinical research focus of our department within the UKE and the Klinikum Bad Bramstedt is on modern endoprosthetics, periprosthetic infections and orthopaedic health care research. We have established a central patient registry that includes all patients before and at defined time points after hip and knee arthroplasty. In addition to clinical outcomes and standardized patient records, patient reported outcome measures (PROMs) are being used to assess the quality of life, physical functionality, psychological problems, participation and patient satisfaction taking into account the dimensions of the International Classification of Functioning, Disability and Health (ICF). Another focus lies on systematic reviews and meta-analyses that examine clinical outcomes of orthopedic treatments. Furthermore, our department also combines clinical outcomes with basic research methods including high-resolution imaging of skeletal and cartilage tissue, laboratory studies as well as biomechanics.

International and national cooperation in Health Services Research

The Chair of Orthopaedics at the Department of Trauma and Orthopaedic Surgery has established stable and longstanding cooperations within the UKE, especially with the Department of Osteology and Biomechanics (IOBM), the Department of Forensic Medicine, the I./II. Department of Medicine, as well as the Department of Psychiatry and Psychotherapy. Moreover, national (e.g., Charité Berlin, University of Würzburg) and international collaborations (e.g., Harvard Medical School) enable us to conduct high-quality research projects.

Selected publications in Health Services Research

Schmidt T, Schmidt C, Strahl A, Mussawy H, Rolvien T, Jandl NM, Casar C, Oheim R, Schinke T, Lohse AW, Amling M, Schramm C, Barvencik F (2020). A System to Determine Risk of Osteoporosis in Patients With Autoimmune Hepatitis. *Clin Gastroenterol Hepatol*, 18(1), 226-233.

Hubert J, Beil FT, Rolvien T, Ries C, Frosch S, Saul D, Hawellek T (2021). Restoration of the hip geometry after two-stage exchange with intermediate resection arthroplasty for periprosthetic joint infection. *Sci Rep*, 11(1):5221.

Hoening T, Tenforde AS, Strahl A, Rolvien T, Hollander K (2021). Does Magnetic Resonance Imaging Grading Correlate With Return to Sports After Bone Stress Injuries? A Systematic Review and Meta-analysis. *Am J Sports Med* [Epub ahead of print: doi: 10.1177/0363546521993807].

Delsmann MM, Strahl A, Mühlenfeld M, Jandl NM, Beil FT, Ries C, Rolvien T (2021). High prevalence and undertreatment of osteoporosis in elderly patients undergoing total hip arthroplasty. *Osteoporos Int*. [Epub ahead of print: doi: 10.1007/s00198-021-05881-y].

Boese C, Lechler P, Frink M, Hackl M, Eysel P, Ries C (2021). Kostenanalyse stationärer und ambulanter intravenöser Antibiotikatherapie periprosthetischer Gelenkinfektionen: Eine Simulation. *ORTHOPAED*, 50(2), 150-158.

Selected research projects in Health Services Research

KogniTEP – Changes in the cognitive performance of older people due to hip arthroplasty (2016-2018), Stiftung Endoprothetik (PI: A. Niemeier)

Hamburg Total Hip and Knee Arthroplasty registry, ongoing (PI: T. Rolvien)

Allograft Incorporation in Revision Total Hip Arthroplasty (2019-2021), German Research Foundation DFG (PI: T. Rolvien)

Evaluation of the patient-accompanying App “alley ortho companion” for patients with osteoarthritis of the knee and hip: A randomized controlled multi-center trial (PI: J. Hubert)



Prof. Dr. F. T. Beil



PD Dr. J. Hubert



PD Dr. Dr. T. Rolvien



PD Dr. C. Ries



PD Dr. K. Boese



Dr. A. Strahl

Center for Molecular Neurobiology Hamburg

Department of Neuroimmunology and Multiple Sclerosis

Director: Prof. Dr. Manuel Friese

Major research interests in Health Services Research

The multiprofessional working group of C. Heesen is committed to address information needs, enhance empowerment as well as self-management of people with multiple sclerosis (PwMS) along the disease trajectory. In order to clarify the extent to which evidence-based patient information (EBPI) promotes the participation of PwMS in decision-making processes, has an impact on therapy initiation, and on health status; the working group has conducted RCTs and evaluated patient information interventions in MS in a Cochrane review. The focus of the last 5 years has increasingly turned to web-based tools and interventions. So far, 2 programmes on symptom management were evaluated and lifestyle management has recently evolved as a new focus.

International and national cooperation in Health Services Research

The group has long-standing local, national and international cooperation partners. Since 2016, the working group develops patient handbooks on immunotherapy options for PwMS on behalf of the of the German competence network MS (KKNMS) and the MS society (DMSG). The objective of this joint project is to develop handbooks on all immunotherapy options for PwMS. Currently, the work of the group is supported by two former fellows, S. Köpke and S.M. Gold, who have been appointed to tenured professorships at other institutions. They are affiliated part-time to the group and have taken over roles in current projects as well as in complex intervention methods teaching. Further, there is a long-standing international cooperation network. AutoMS is a collaborative project, which established in 2010

led by C. Heesen and A. Solari, and involving six European countries and an Australian partner.

The network has published more than 10 papers in prestigious journals. Moreover, A. Rahn chairs and A. Giordano co-chairs the 'Rehabilitation in Multiple Sclerosis' (RIMS) Special Interest Group 'Patient Autonomy', which was founded by C. Heesen and A. Solari in 2010 (<https://eurims.org/SIG-Patient-Autonomy/sig-patient-autonomy-about-us.html>).

Selected publications in Health Services Research

Köpke S, Solari A, Rahn A, Khan F, Heesen C, Giordano A. (2018) Information provision for people with multiple sclerosis.

Cochrane Database Syst Rev. 2018 Oct 14;10:CD008757. doi: 10.1002/14651858.CD008757.pub3.

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Fischer A, Schröder J, Vettorazzi E, Wolf OT, Pöttgen J, Lau S, Heesen C, Moritz S, Gold SM. (2015) An online programme to reduce depression in patients with multiple sclerosis: a randomised controlled trial. *Lancet Psychiatry*. 2015 Mar;2(3):217-23.

Selected research projects in Health Services Research

Endowed Professorship “Clinical and Rehabilitative MS Research” (2017-2022) (PI: C. Heesen)

Power@MS – Interaktive Webplattform zum Empowerment bei Multipler Sklerose (2018-2021), Innovationsfond (PI: C. Heesen)

PROMISE: Systematic review on treatment response markers (2019-2021), BMBF (PI: C. Heesen)

Patient experiences in MS - development of a web-based video platform 2017-2019, Roche (PI: C. Heesen)

Understanding MRI imaging in MS - development of a web-based education tool (2016-2019), Genzyme, (PI: C. Heesen)

Department of Neurology

Director: Prof. Dr. Christian Gerloff

Major research interests in Health Services Research

Stroke is one of the clinical and scientific main areas of interest at the Department of Neurology. Two multiprofessional research groups, the Experimental Electrophysiology and Neuroimaging (xENi) led by Christian Gerloff, and the Clinical Stroke and Imaging Research (CSI) led by Götz Thomalla, aim at improving the understanding and treatment of stroke and cerebrovascular disease including neurorehabilitation research and health services research.

Neurorehabilitation research represents one of our core research areas. In 2020 we have completed the NETS trial of neurostimulation for recovery of hand motor function. Main results of this ground-breaking trial will be presented in 2021. In the cooperation in the IMPROVE project, which is co-funded by the Deutsche Rentenversicherung Nord and UKE, we have completed a longitudinal observational study of functional outcome and quality of life after neurorehabilitation following stroke in clinical practice.

In the StroCare project we collaborate with two further stroke centers, five rehabilitation clinics, and a health insurance provider (BARMER). In this project, which is funded by the German Innovation Fund, we implement and evaluate an improved cross-sectoral poststroke care program. The project also involves simplified transfer to neurorehabilitation based on a digital patient platform.

Clinical trials of acute stroke treatment represent a core research area of our department. In an individual patient data meta-analysis, we provided further evidence for efficacy and safety of intravenous thrombolysis in patients with stroke of unknown onset (EOS collaboration). These data have led to changes in national and international guidelines for the management of acute stroke.

In collaboration with partners at UKE and other national partners, we have studied the impact of the COVID-19 pandemic on hospital care and outcome of patients with stroke and other cardiovascular emergencies. In a collaboration within the German Stroke Registry – Endovascular Treatment, we could show that German stroke centers were able to maintain a high procedural quality of interventional acute stroke care during the pandemic.

International and national cooperation in Health Services Research

Our research groups are well connected in national and international networks of stroke trialists and stroke researchers including the clinical trial networks of WAKE-UP, TENSION and PRECIOUS, as well as the Global Alliance of Independent Networks focused on Stroke trials (GAINS) network of networks. Together with partners from Berlin and Munich, we established a nationwide, open, academic registry to study implementation, complications, and outcome of mechanical thrombectomy for treatment of acute stroke in clinical practice in Germany (German Stroke Registry). In the StroCare project we have established a network of acute and rehabilitation hospitals collaborating in a project of optimized stroke care.

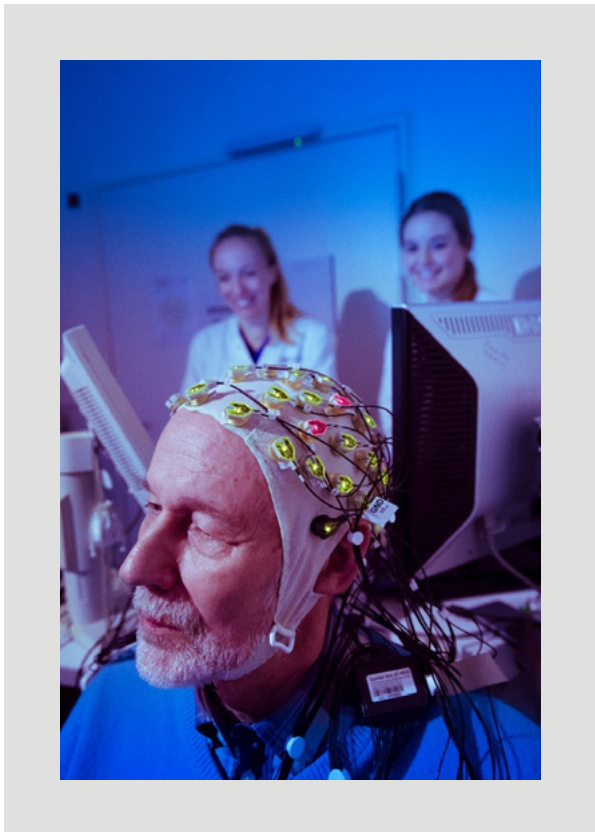
Selected publications in Health Services Research

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Behrendt CA, Seiffert M, Gerloff C, L'Hoest H, Acar L, Thomalla G. How Does SARS-CoV-2 Infection Affect Survival of Emergency Cardiovascular Patients? *A*

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raza S, Schellinger PD, Schwab S, Simonsen CZ, Song SS, Thijs V, Toni D, Hsu CY, Wahlgren N, Yamamoto H, Yassi N, Yoshimura S, Warach S, Hacke W, Toyoda K, Donnan GA, Davis SM, Gerloff C; Evaluation of unknown Onset Stroke thrombolysis trials (EOS) investigators. Intravenous alteplase for stroke with unknown time of onset guided by advanced imaging: systematic review and meta-analysis of individual patient data. *Lancet.* 2020 Nov 14;396(10262):1574-1584. doi: 10.1016/S0140-6736(20)32163-2.

Selected research projects in Health Services Research

„StroCare - Optimierte sektorenübergreifende, koordinierte und evidenzbasierte Behandlung von Schlaganfallpatienten durch übergreifende Prozessverantwortung und patientenorientierte Ergebnisqualitätsmessung“ (2019-2022)

„Efficacy and safety of thrombectomy in stroke with extended lesion and extended time window: a randomized, controlled trial (TENSION)“ (2018-2022) funding by the European Union's Horizon 2020 research and innovation programme (PI: Götz Thomalla)

„Ergebnisqualität durch Patient Reported Outcome Measures (PROMs) bei Schlaganfallpatienten in der klinischen Routine (EPOS)“ (2017-2019) funded by "Innovationsfond des GB-A" (Innovation Found GB-A) (PI: Götz Thomalla)

“PREvention of Complications to Improve OUTcome in elderly patients with acute Stroke (PRECIOUS)“ (2015-2020) European Union's Horizon 2020 research and innovation programme (PI Germany: Götz Thomalla)

“Efficacy and safety of MRI-based thrombolysis in wake-up stroke: a randomised, double-blind, placebo-controlled trial (WAKE-UP)“ (2011-2016) European Union's Horizon 2020 research and innovation programme (PI: Christian Gerloff)



CSI

Clinical Stroke and Imaging Research



Department of Ophthalmology

Director: Prof. Dr. Martin Spitzer

Major research interests in Health Services Research

- Epidemiology of eye diseases, low vision and blindness, comorbidities of ophthalmic and other health problems
- Monitoring and provision of eye care, implementation of registers for major eye diseases and procedures in ophthalmology
- Management and financing of ophthalmic care, health economic burden of eye diseases, cost-calculation and economic outcomes of ophthalmic treatments
- Patient orientation in ophthalmology, life-quality and perception of eye disease, physician-patient-relationship
- Health system research, ophthalmology in the context of the German health care system, demographics and eye disease, International ophthalmology

International and national cooperation in Health Services Research

Hamburg City Health Study (HCHS), Gutenberg Health Study, Mainz, European Eye Epidemiology Consortium, German Network in Health Care Research (DNVF)

Selected publications in Health Services Research

Wolfram, C., Pfeiffer, N.: Weißbuch zur Situation der ophthalmologischen Versorgung, 2012, edited by the German Ophthalmological Society (DOG).

Wolfram, C., Pfeiffer, N., Versorgungsforschung in der Augenheilkunde, Ophthalmologe, 111:441-414, 2014.

Wolfram, C., Höhn, R., Kottler, U., Wild, P., Blettner, M., Bühren, J., Pfeiffer, N., Mirshahi, A., Prevalence of Refractive Errors in a Large European Cohort: The Gutenberg Health Study (GHS), British Journal of Ophthalmology. 2014, 0:1-5.

Wolfram, C., Lorenz, K., Breitschaidel, L., Verboven, Y., Pfeiffer, N., Health- and vision-related quality of life in patients with ocular hypertension or primary open-angle glaucoma, Ophthalmologica, 2013, 229:227-234.

Wolfram, C., Pfeiffer, N., Die Bedeutung individueller Gesundheitsleistungen (IGEL) in der Augenheilkunde, Klinische Monatsblätter für Augenheilkunde, 231 (1), 61-66, 2015.

Selected research projects in Health Services Research

Adherence patterns and perioperative anxiety to intravitreal treatments (Novartis)

Multimorbidity and glaucoma (IPA)

Ophthalmological and dermatological comorbidities (IVDP)

Vision Problems and psychosocial factors (HCHE)

Center for Clinical Neurosciences

Department of Voice, Speech and Hearing Disorders, University Dysphagia Center Hamburg

Director: PD Dr. med Christina Pflug

Major research interests in Health Services Research

The Department of Voice, Speech and Hearing Disorders is a superregional interdisciplinary diagnostic center. It includes the University Dysphagia Center, whose major research interest is in epidemiology, prevention, and diagnostics of swallowing disorders (dysphagia).

Dysphagia is associated with various diseases, can result in life-threatening symptoms such as malnutrition or pneumonia, and has a major impact on the quality of life of those affected and their families. In collaboration with the Department of Neurology, a special research focus is on the field of dysphagia in Parkinson's disease across all stages and forms of treatment.

The research focus will now be broadened to address the significant gap in dysphagia care in children with rare and complex diseases. The project CIDD-C (Clinical and Instrumental Standards of Dysphagia Diagnostics in Children) aims to optimize the entire diagnostic process of pediatric dysphagia within the UKE and beyond.

In cooperation with the Department of Pediatrics, the project CHILDYS-RD (Dysphagia in Children with Rare Disease) and the accompanying project CHILDYS-ICI (Improving Compliance and Interdisciplinarity) focus on swallowing disorders in children with rare disease, its impact on the quality of life for the whole family and possibilities to improve the compliance during the assessment.

International and national cooperation in Health Services Research

The University Dysphagia Center research group is already well connected in national and international societies with a focus on swallowing disorders.

A key point of translational research is the direct connection to clinical and outpatient care in different settings and the implementation of new research results in the advanced training of diagnosticians. The department closely collaborates with the Center for Clinical Neurosciences and is increasingly expanding the cooperation with the Department of Pediatrics within the UKE, especially in the area of rare diseases.

Selected publications in Health Services Research

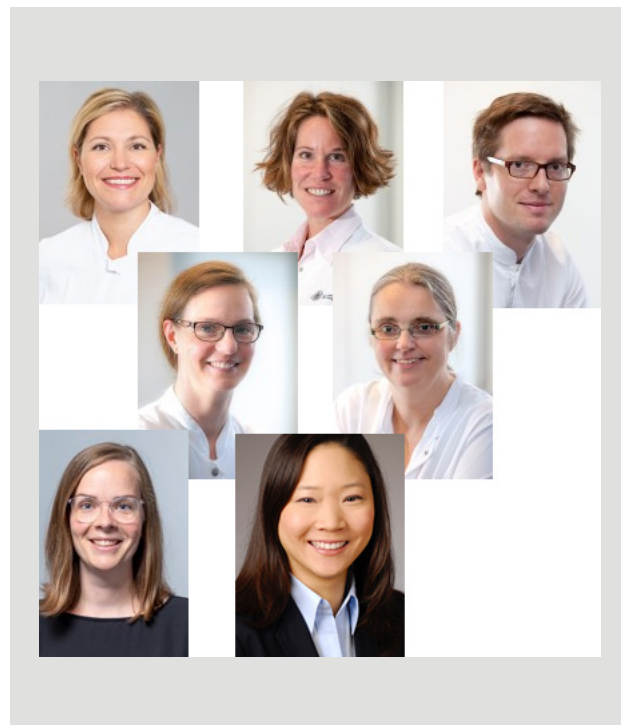
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Dziewas, R., Allescher, H. D., Aroyo, I., Bartolome, G., Beilenhoff, U., Bohlender, J., ... & Pflug, C. (2021). Diagnosis and treatment of neurogenic dysphagia—S1 guideline of the German Society of Neurology. *Neurological Research and Practice*, *3*(1), 1-30. <https://doi.org/10.1186/s42466-021-00122-3>

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Nienstedt, J. C., Bihler, M., Niessen, A., Plaetke, R., Pötter-Nerger, M., Gerloff, C., Buhmann, C. & Pflug, C. (2019). Predictive clinical factors for penetration and aspiration in Parkinson's disease. *Neurogastroenterology & Motility*, 31(3), e13524. <https://doi.org/10.1111/nmo.13524>

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Other Centers

Pharmacy

Director: Dr. Michael Baehr

Major research interests in Health Services Research

The aim of the hospital pharmacy is to optimize medication management for all patients in order to improve medication safety (“Arzneimitteltherapiesicherheit”, AMTS). The medication process in a hospital is complex with many different health care professionals involved, affects nearly every patient and is known to be error-prone. Different tools to reduce error rates and therefore to improve patient safety, summarized as closed-loop medication management, have already been implemented. Therefore, the main research interests in the hospital pharmacy focuses on medication safety, detection and solving of drug related problems, clinical pharmacy services, pharmacists’ interventions and tools to optimize drug treatment. Another mainstay is clinical pharmacokinetics to optimize drug dosing in special populations, e.g. antibiotics in intensive care patients with extracorporeal membrane oxygenation, conditioning chemotherapy before allogeneic stem cell transplantation or drug dosing in patients with renal impairment.

International and national cooperation in Health Services Research

Pharmacists of the hospital pharmacy have many interprofessional collaborations with different clinical departments (e.g. Stem Cell Transplantation, Intensive Care Medicine, Surgery, Anaesthesiology) as well as with scientific institutes of the UKE (e.g. Medical Psychology, Medical Biometry and Epidemiology, Health Economy). Furthermore there is a cooperation with the Department of Pharmacy of the University of Hamburg. Pharmacists of the hospital pharmacy are engaged in many different national and international working groups and scientific societies (e.g. German Association of Hospital Pharmacists, European Society of Blood and Marrow

Transplantation, German Interdisciplinary Association of Intensive Care and Emergency Medicine, German Society of Hematology and Oncology) as members and chairs.

Selected publications in Health Services Research

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Langebrake C, Admiraal R, van Maarseveen E, Bonnin A, Bauters T: Consensus recommendations for the role and competencies of the EBMT clinical pharmacist and clinical pharmacologist involved in hematopoietic stem cell transplantation. BONE MARROW TRANSPL. 2020;55(1):62-69.

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Ihbe-Heffinger A, Langebrake C, Hohmann C, Leichenberg K, Hilgarth H, Kunkel M, Lueb M, Schuster T: Prospective Survey-based study on the categorization Quality of hospital pharmacists' interventions using DokuPIK. INT J CLIN PHARM-NET. 2019;Epub 2019 Mar 20.

Selected research projects in Health Services Research

PHAROS: Pharmazeutisches Management von älteren Risikopatienten im operativen Setting (2018-2021), Federal Ministry of Health (Kiefmann, Olotu, Langebrake, Bergelt)

Arzneimitteltherapiesicherheit an der Schnittstelle Intensiv-/ Normalstation (Sommer, Langebrake, Kluge, Scherer)

Analyse der Medikation multimorbider älterer Patienten anhand der Daten der MultiCare Studie (Krüger, Langebrake, Scherer)

Pharmakokinetische Untersuchungen von Busulfan als Teil der Konditionierungstherapie vor allogener hämatopoetischer Stammzelltransplantation bei Patienten mit einer Myelofibrose (MY-PHABUS) (Dadkhah, Langebrake, Kröger)



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