



Center for Health Care Research Research Report 2019



Universitätsklinikum Hamburg-Eppendorf

In Kooperation mit



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. 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 with 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.

We invite you to get to know the CHCR and its member institutions in greater detail with this report.



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



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



Prof. Dr. Martin Scherer
(deputy spokesperson CHCR)



Daniel Bremer
(coordinator CHCR)

Content

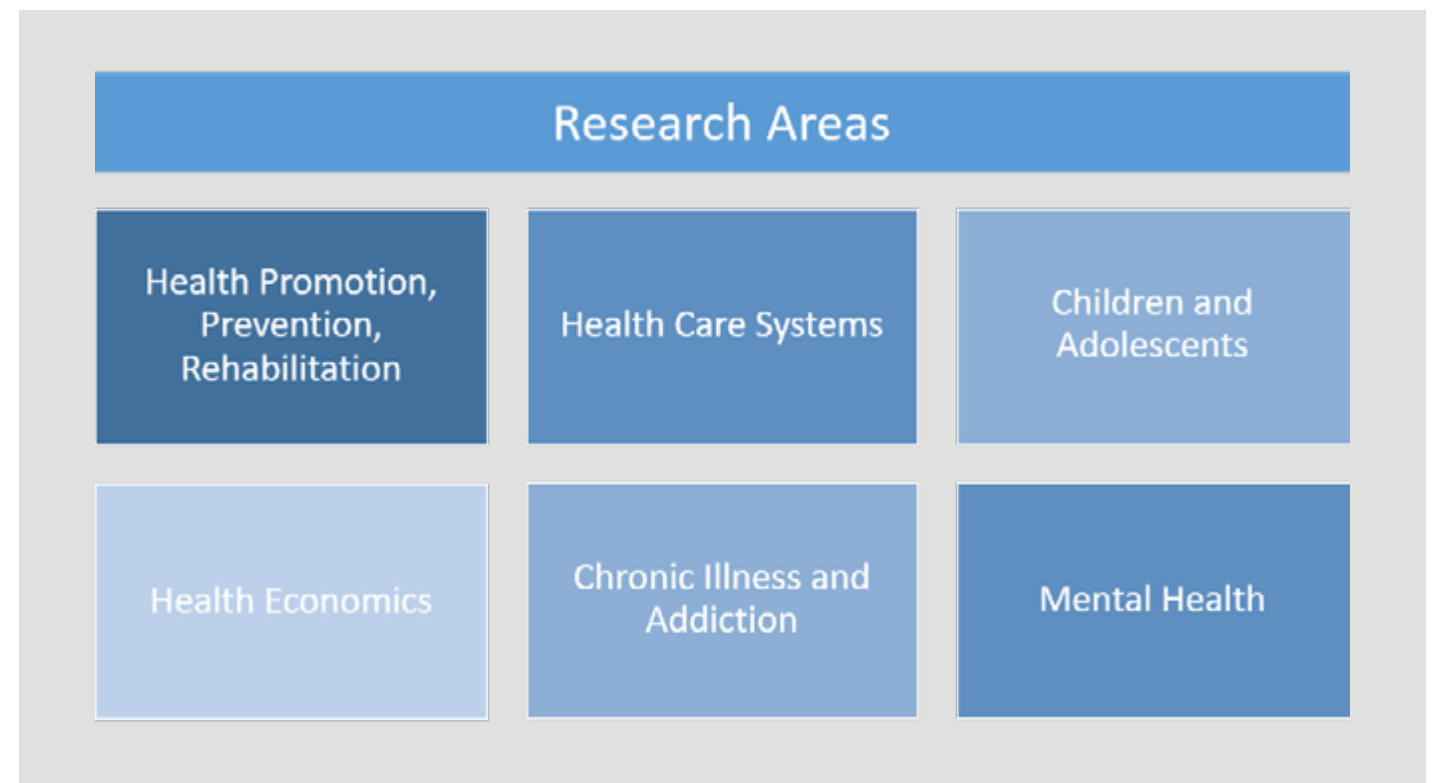
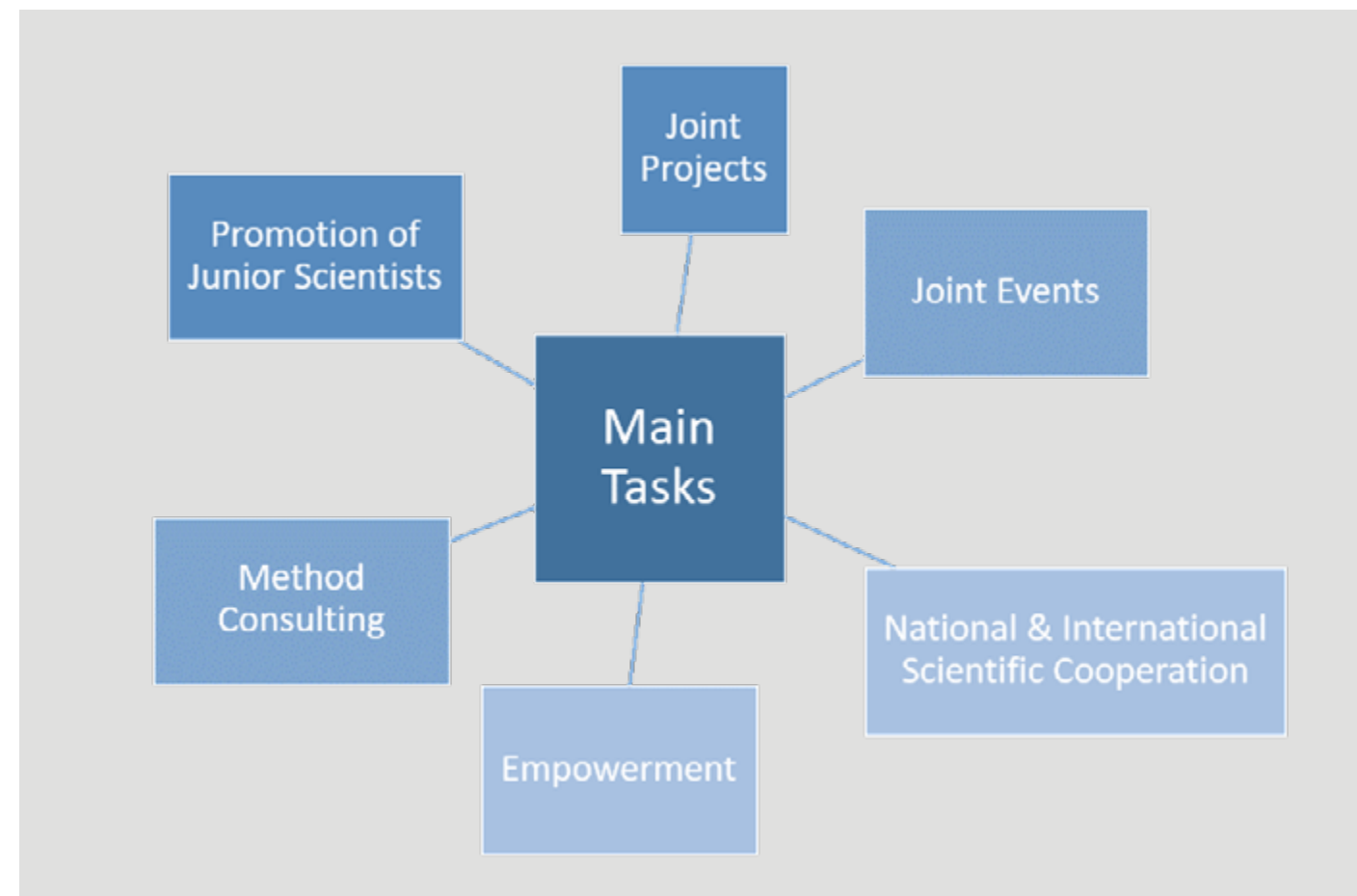
Interdisciplinary Research for Health Care and Health Services	5	Center for Dental and Oral Medicine	37
Junior Researchers	7	Department of Prosthetic Dentistry	37
Management - Board of Directors	8	Center for Geriatrics and Gerontology	39
Center for Psychosocial Medicine	9	Albertinen-Haus, Centre of Geriatrics and Gerontology, Scientific Department at the University of Hamburg	39
Department of General Practice/Primary Care	9	Center for Diagnostics	41
Department of Medical Sociology	11	Department of Legal Medicine	41
Department of Health Economics and Health Services Research	13	Center for Anesthesiology and Intensive Care	43
Department of Medical Psychology	15	Department of Anesthesiology	43
Department of Psychiatry and Psychotherapy	17	University Heart and Vascular Center Hamburg	45
Department of Child and Adolescent Psychiatry and Psychotherapy	19	Department of Vascular Medicine (Vascular Surgery - Angiology - Endovascular Therapy)	45
Institute for Health Services Research in Dermatology and Nursing	21	Center for Surgical Science	47
Department for Sex Research and Forensic Psychiatry	23	Department of Urology	47
Department for Occupational and Maritime Medicine	25	Department of Orthopedics	49
Center for Interdisciplinary Addiction Research	27	Center for Molecular Neurobiology Hamburg	51
German Center of Addiction Research in Childhood and Adolescence	29	Department of Neuroimmunology and Multiple Sclerosis	51
Center for Experimental Medicine	31	Head and Neurocenter	53
Department of Medical Biometry and Epidemiology	31	Department of Neurology	53
Center for Internal Medicine	33	Other Centers	55
Department for Psychosomatic Medicine and Psychotherapy	33	Department of Ophthalmology	55
Center for Internal Medicine	35	Pharmacy	57
I. Department of Medicine (Gastroenterology, Infectiology, Tropical Medicine)	35	Imprint	59

Interdisciplinary Research for Health Care and Health Services

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 Hamburg internationally competitive.

Our approach includes epidemiological, meta-analytic, and observational techniques and health economic research expertise and methods.

Our center is part of an excellent regional, national, and international network including practices, clinics, acute and rehabilitation hospitals, health insurance funds and research institutions.

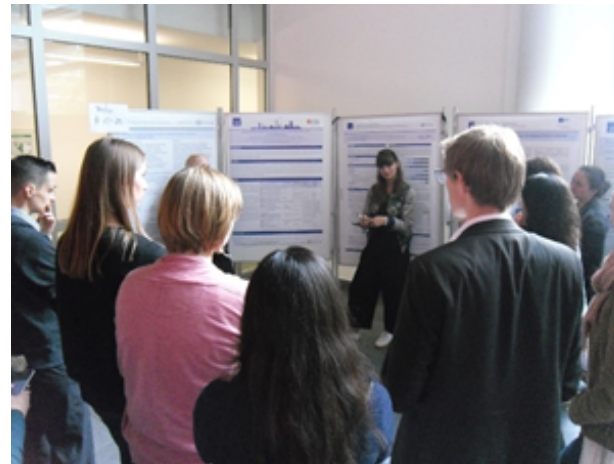


Structure of the CHCR

- Foundation in 2006
- One out of five research centers of the University Medical Center Hamburg-Eppendorf
- 26 member organizations and more than 200 researchers involved
- Internationally established research groups
- Internal and external networks and structures
- Graduate programs

Junior Researchers

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



Management - Board of Directors

Spokespersons

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

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Deputy Spokesperson CHCR

Prof. Dr. Martin Scherer, Department of Primary Care,
Deputy Spokesperson CHCR

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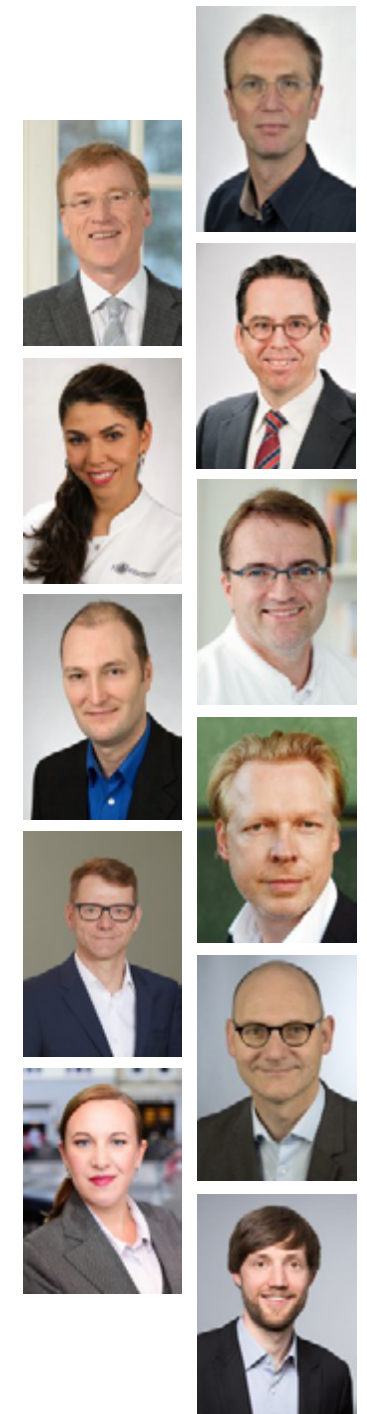
Prof. Dr. Hans-Helmut König,
Department of Health Economics and Health Services Research

Prof. Dr. Bernd Löwe,
Department of Psychosomatic Medicine and Psychotherapy

Dr. Nadine Pohontsch,
Department of Primary Care

Coordinator

Dipl. Soz. Daniel Bremer,
CHCR-Coordinator



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 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 Quality in health care (Göttingen). Research cooperation exists with a number of departments of general practice from German universities (e.g. Göttingen,

Heidelberg 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).

Selected publications in Health Services Research

Muche-Borowski C, Abiry D, Wagner HO, Barzel A, Lühmann D, Egidi G, Kühlein T, Scherer M. Protection against the overuse and underuse of health care - methodological considerations for establishing prioritization criteria and recommendations in general practice. *BMC Health Serv Res.* ;18(1):768.

Eisele M, Adam W, Rakebrandt A, Boczor S, Blozik E, Träder JM, Störk S, Herrmann-Lingen C, Scherer M; RECODE-HF study group. Importance of comorbidities in the treatment of primary care patients with heart failure-Baseline results of the observational RECODE-HF Study. *Fam Pract.* 2018;35(4):481-487.

Mallon T, Ernst A, Brettschneider C, König HH, Luck T, Röhr S, Weyerer S, Werle J, Mösch E, Weeg D, Fuchs A, Pentzek M, Kleineidam L, Heser K, Riedel-Heller S, Maier W, Wiese B, Scherer M; AgeCoDe & AgeQualiDe study group. Prevalence of pain and its associated factors among the oldest-olds in different care settings - results of the AgeQualiDe study. *BMC Fam Pract.* 2018 ;19(1):85.

Scherer M, Lühmann D, Kazek A, Hansen H, Schäfer I. Patients Attending Emergency Departments. *Dtsch Arztebl Int.* 2017 Sep 29;114(39):645-652.

Muche-Borowski C, Lühmann D, Schäfer I, Mundt R, Wagner HO, Scherer M; Guideline Group of the

German College of General Practice and Family Medicine (DEGAM). Development of a meta-algorithm for guiding primary care encounters for patients with multimorbidity using evidence-based and case-based guideline development methodology. *BMJ Open.* 2017;7(6):e015478.

Selected research projects in Health Services Research

MULTIqual: Development and Validation of Quality Indicators for Patients with Multimorbidity. (2017-2020), Federal Joint Committee (PI: M. Scherer)

INDIGER: Innovative networks for services and health in regions of tomorrow (2014-2019), Federal Mi-

nistry of Education and Research (PI: M. Scherer)

HOME-CIMT: Home-based constraint-induced movement therapy for patients with upper limb dysfunction after stroke. (2011-2018) Federal Ministry of Education and Research (Co-PIs: M. Scherer, A. Barzel)

BeSSD-GP: Identification of barriers and difficulties involved in the process of diagnosing somatic symptom disorder in primary care. (2015-2018) German Research Foundation (DFG) (Co-PI: M. Scherer)

RECODE-HF: Comorbidities in Patients with Chronic Heart Failure (2012-2016), Federal Ministry of Education and Research (PI: M. Scherer)



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, self-help, prevention and health promotion. In terms of 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 is 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 outcome 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, Lüdecke D, Hofreuter-Gätgens K, Fisch M, Gräfen M, Knesebeck Ovd (2017). Income and health-related quality of life among prostate cancer patients over a one-year period after radical prostatectomy: a linear mixed model analysis. Qual Life Res 26, 2363-2373.

Bremer D, Inhestern L, Knesebeck Ovd (2017). Social relationships and physician utilization among older adults - a systematic review. PLoS One 12, e0185672.

Lüdecke D, Bien B, McKee K, Krevers B, Mestheneos E, Di Rosa M, Knesebeck Ovd, Kofahl K (2018). For better or worse: factors predicting outcomes of family care of older people over a one-year period. A six-country European study. PLoS One 13, e0195294.

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.

Selected research projects in Health Services Research

Disparities in the diagnosis and treatment of women and men with heart failure. (2017-2019), Federal Ministry of Education and Research (PI: Ovd. Knesebeck)

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

Social inequalities in cancer care. (2013-2016), vffr, (PI: Ovd. Knesebeck)

Health related Self-Help in Germany. (2012-2018), Federal Ministry of Health (PI: C. Kofahl)

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



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

Diederich F, König HH, Mietzner C, Brettschneider C (2018). Costs of informal nursing care for patients with neurologic disorders: A systematic review. *NEUROLOGY*, 90(1):28-34.

König HH, Bleibler F, Friederich H, Herpertz S, Lam T, Mayr A, Schmidt F, Svaldi J, Zipfel S, Brettschneider C, Hilbert A, de Zwaan M, Egger N (2018). Economic evaluation of cognitive behavioral therapy and Internet-based guided self-help for binge-eating disorder. *INT J EAT DISORDER*, 51(2):155-164.

Lehnert T, Günther O, Hajek A, Riedel-Heller S, König HH (2018). Preferences for home- and community-based long-term care services in Germany: a discrete choice experiment. *EUR J HEALTH ECON*, Epub ahead of print.

Zwar L, König HH, Hajek A (2018). The impact of different types of informal caregiving on cognitive functioning of older caregivers: Evidence from a longitudinal, population-based study in Germany. *SOC SCI MED*, 214:12-19.

Brettschneider C, Djadran H, Härter M, Löwe B, Riedel-Heller S, König HH (2015). Cost-utility analyses of cognitive-behavioural therapy of depression: a systematic review. *PSYCHOTHER PSYCHOSOM*, 84(1):6-21.

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' (2018-2020), European Union (PI: Judith Simon)

Health economic evaluations within the German Psychotherapy Research Network (2007-2014), German Ministry of Education and Research (PI: Hans-Helmut König)

Hamburg Centre for Health Economics: Young researcher group focusing on methods for the economic evaluation of mental health care (2012-2016), German Ministry of Education and Research (PI: Alexander Konnopka)

Hamburg Centre for Health Economics: Young researcher group focusing on economics of informal care (2016-2020), German Ministry of Education and Research (PI: Christian Brettschneider)

Economics of potentially inadequate medication (2017-2019), Innovationsfonds (PI: Hans-Helmut König)



Center for Psychosocial Medicine Department of Medical Psychology

Director: Prof. Dr. Dr. Martin Härter

Major research interests in Health Services Research

The main research and work focuses on the areas of health care and implementation research in mental and chronic physical diseases, somato-psychological interactions, patient orientation, person-centered care and life quality, prevention in children and young adults as well as rehabilitation. By means of primary studies, analyses of secondary data and metaanalytical approaches, the research groups identify questions on the needs and access to care, on treatment processes in in- and outpatient settings as well as care outcomes. Methodological approaches include the development of assessment instruments for use in clinical routine, statistical models for interactions in supply practice, study designs that allow causal statements and are generalizable to clinical practice. The major clinical research 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, 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 focus on the large network of compre-

hensive cancer centers, 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 to research institutions worldwide, which are interested in person-centered care and shared-decision making, integrated care models as well as 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. (IF 6.8)

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. (IF: 4.1)

Schramm, E., Kriston, L., Zobel, I., Bailer, J., Wambach, K., Backenstrass, M., Klein, J. P., Schoepf, D., Schnell, K., Gumz, A., Bausch, P., Fangmeier, T., Meister, R., Berger, M., Hautzinger, M. & Härter, M. (2017). Effect of Disorder-Specific vs Nonspecific Psychotherapy for Chronic Depression. JAMA PSYCHIATRY, 74(3), 233-242. (IF 16.6)

Andreas, S., Schulz, H., Volkert, J., Dehoust, M., Sehner, S., Suling, A., Ausin, 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. (IF 5.9)

Elwyn, G., Durand, M.A., Song, J., Aarts, J., Barr, P.J., Berger, Z., Cochran, N., Frosch, D., Galasiński, D., Gulbrandsen, P., Han, P.K.J., Härter, M., Kinnersley, P., Lloyd, A., Mishra, M., Perestelo-Perez, L., Scholl, I., Tomori, K., Trevena, L., Wittman, H.O. & Van der Weijden, T. (2017). A three-talk model for shared decision making: multistage consultation process. BMJ, 359, j4891. (IF 19.7)

Selected research projects in Health Services Research

psychnet – the Hamburg Network for Mental Health (2011-2015), Federal Ministry of Education and

Research (PI: M. Härter)

HAM-NET – the Hamburg Network of Health Services Research (2017-2020), Federal Ministry of Education and Research (PI: M. Härter)

Endowed Professorship „Clinical Health Services Research“ (2013-2018) (Damp-Stiftung) (PI: H. Schulz)

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

Nationwide evaluation of psychooncological supply in Germany, Federal Ministry of Health (PI: H. Schulz)



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 (ZPF) 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 (EAOF) 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

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; in press, doi: 10.1038/s41380-018-0031-7 (IF: 15,0)

Gallinat J, McMahon K, Kühn S, Schubert F, Schaefer M. Crosssectional Study of Glutamate in the Anterior Cingulate and Hippocampus in Schizophrenia. *Schizophr Bull* 2016;42:425-33 (IF: 7,6)

Gleich T, Deserno L, Lorenz R, Böhme R, Pankow A, Buchert R, Kühn S, Heinz A, Schlagenhauf 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 (IF: 7,2)

Kühn S, Gallinat J. Amount of lifetime video gaming is positively associated with entorhinal, hippocampal and occipital volume. *Mol Psychiatry* 2014;19:842-847 (IF: 15,0)

Kühn S, Gallinat J. Brains on porn: Structural correlates and functional connectivity associated

with pornography consumption. *JAMA Psychiatry* 2014;71(7):827-834 (IF: 13,8)

Selected research projects in Health Services Research

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

Model of crosssectoral, coordinated, stepped, evidencebased 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: Highfield 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 restingstate dysfunction in depression and schizophrenia: A 7 tesla multimodal imaging project. DFG GA 707/7-1 (PI: J. Gallinat)



Department of Child and Adolescent Psychiatry and Psychotherapy

Director: Prof. Dr. Michael Schulte-Markwort

Major research interests in Health Services Research

The major research focusses 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 health-care, or mother-infant-care. Population-based studies provide information on sociodemographic 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), 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

Ravens-Sieberer, U., Otto, C., Kriston, L., Rothenberger, A., Döpfner, M., Herpertz-Dahlmann, B., . . . Klasen, F. (2015). The longitudinal BELLA study: Design, methods and first results on the course of mental health problems. *European Child and Adolescent Psychiatry*, 24(6), 651-663.

Barthel, D., Fischer, K. I., Nolte, S., Otto, C., Meyrose, A. K., Reisinger, . . . & Ravens-Sieberer, U. (2016). Implementation of the Kids-CAT in clinical settings: a newly developed computer-adaptive test to facilitate the assessment of patient-reported outcomes of children and adolescents in clinical practice in Germany. *Quality of Life Research*, 25(3), 585-594.

Becker, I., Ravens-Sieberer, U., Ottová-Jordan, V., & Schulte-Markwort, M. (2017). Prevalence of Adolescent Gender Experiences and Gender Expression in Germany. *Journal of Adolescent Health*, 61, 83-90.

Hintzpeter, B., Klasen, F., Schön, G., Voss, C., Hölling, H., Ravens-Sieberer, U., & The BELLA study group. (2015). Mental health care use among children and

adolescents in Germany: results of the longitudinal BELLA study. *European Child and Adolescent Psychiatry*, 24(6), 705-713.

Wiegand-Grefe S et al. (2015): Family intervention CHIMPs. Psychological problems and health-related quality of life in children of psychiatrically ill parents – evaluation of a manualized family intervention. *Nervenheilkunde*; 34: 55-64.

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)

ADOPT-Epidemiology - Affective Dysregulation in Childhood – Optimizing Prevention and Treatment, TP2: Assessment and Epidemiology of Affective Dysregulation (2017-2021) BMBF (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)

DeLight – Evaluation of Light Treatment in Adolescents with Depression (2018 – 2020), BMBF (PI am UKE: Michael Schulte-Markwort)



Institute for 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 health care, health geographics, evidence-based medicine and multi-source claims data analysis. Further research interests are in nutritional medicine and prevention, translational inflammation research and health care 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 translational wound research unit by Prof. Stürmer 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 transcontinental associations. Research encompasses more than 5000 single collaborating partners worldwide. National collaboration has been started in research 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

Zander N, Sommer R, Schäfer I, Reinert R, Kirsten N, Zyriax BC, Maul JT, Augustin M: Epidemiology and Dermatological Comorbidity of Seborrheic Dermatitis. Population-based Study in 161,000 Employees. Br J Dermatol 2019; [Epub]. DOI: 10.1111/bjd.17826. (IF=6.7)

Augustin M, Schäfer I, Krensel M, Reusch M, Mohr P, Greinert R, John SM, Zander N: Decreasing Sunbed Use in the German Population Between 2001-2015: Survey in 155,679 Working Persons. J Eur Acad Dermatol Venereol 2019; 33 (3): 541-545. (IF=5.1)

Augustin M, Mrowietz U, Luck-Sikorski C, Kiedrowski Rv, Schlette S, Radtke MA, John SM, Zink A, Suthakaran N, Sommer R, German ECHT Research Group: Translating the WHA Resolution in a Member State: Toward a German Program on „Destigmatization“ for Individuals with Visible Chronic Skin Diseases. J Eur Acad Dermatol Venereol 2019; [Epub]. DOI: 10.1111/jdv.15682. (IF=5.1)

Langenbruch A, Radtke M, Gutknecht M, Augustin

M: Does the Dermatology Quality Life Index (DLQI) Underestimate the Disease-specific Burden of Psoriasis Patients?. J Eur Acad Dermatol Venereol 2019; 33 (1): 123-127. (IF=5.1)

Augustin M, Langenbruch A, Gutknecht M, Reich K, Körber A, Maaßen D, Mrowietz U, Thaçi D, Kiedrowski Rv, Radtke MA: Definition of Psoriasis Severity in Routine Clinical Care: Current Guidelines Fail to Capture the Complexity of Longterm Psoriasis Management. Br J Dermatol 2018; 179 (6): 1385-1391. (IF=6.7)

Augustin J, Kis A, Sorbe C, Schäfer I, Augustin M: Epidemiology of Skin Cancer in the German Population: Impact of Socioeconomic and Geographic Factors. J Eur Acad Dermatol Venereol 2018; 32 (11): 1906-1913. (IF=5.1)

Selected research projects in Health Services Research

German National Program on Stigmatization in Visible Skin Diseases. 2018-2020. Grant by the German

Ministry of Health (BMG). PI: Prof. Dr. Matthias Augustin

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 donors. PI: Prof. Dr. Matthias Augustin

Intervertebral disc diseases in nursing staff. Grant by the German Statutory Accident Insurance in the Health and Welfare Services (BGW). 2018-2020. PI: Prof. Dr. Albert Nienhaus

Global Psoriasis Atlas. International project on epidemiology and health care in psoriasis worldwide. Research grant by Global Psoriasis Alliance, WHO and LEO foundation. 2017-2022. PI: Prof. Dr. Matthias Augustin



Center for Psychosocial Medicine Department for Sex Research 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 care research encompassing research on

- sexual health and sexual health care research in Germany in general and
- 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 patients),
- health care research on patients with paraphilic disorders and sexual offenders in different settings (Forensic Sexology),
- the 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 the national level we work together 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 the 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), and the International Association for the Treatment of Sexual Offenders (IATSO).

On a personal level cooperations exist with 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. Tkachenko, Moskau, Russia, Prof. T'Sjoen, Ghent University Hospital, Belgium, Prof. Kreukels, VUMC, Amsterdam, and Dr. Auer, LMU, München, Germany.

Selected publications in Health Services Research

Briken P, Turner D, Thibaut F, Bradford J, Cosyns P, Tozdan S. Validation of ‘the change or stop testosterone lowering medication (COSTLow)-scale’ using delphi method among clinical experts. J Sex Marital Ther. 2018 Jul 24:1-25.

Selected research projects in Health Services Research

Health and Sexuality in Germany (2018-2019). 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)

Juniorprofessorship for Sexual Science and preventive Internet research. 2013-2019 Federal Ministry for research (PI: Peer Briken); Juniorprofessorship: Arne Dekker

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).

Brunner F, Neumann I, Yoon D, Rettenberger M, Stück E, Briken P. Determinants of Dropout From Correctional Offender Treatment. Front Psychiatry. 2019 Mar 22;10:142.

Eyssel, J., Koehler, A., Dekker, A., Sehner, S., & Nieder, T. O. (2017). Needs and concerns of transgender individuals regarding interdisciplinary transgender healthcare: A non-clinical online survey. PLOS ONE, 12(8), e0183014.

Fuss, J., Lemay, K., Stein, D. J., Briken, P., Jakob, R., Reed, G. M., & Kogan, C. S. (2019b). Public stakeholders' comments on ICD- 11 chapters related to mental and sexual health. World Psychiatry, 18(2), 233.

Schröder J, Nick S, Richter-Appelt H, Briken P. Psychiatric Impact of Organized and Ritual Child Sexual Abuse: Cross-Sectional Findings from Individuals Who Report Being Victimized. Int J Environ Res Public Health. 2018 Oct 31;15(11). pii: E2417.



Department for Occupational and Maritime Medicine

Director: Prof. Dr. Volker Harth

Major research interests in Health Services Research

The Institute for 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 institute 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). 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.

The institute 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 optimization of health management on board of container and merchant vessels and development of onboard health promotion. Research in health of offshore wind industry workers combined skills of maritime medicine and expertise in

highly specialised occupational and mental health. The institute'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 and the Center for Psychosocial Medicine, UKE.

As multifarious as the research projects are cooperation partners; a selection:

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

Selected publications in Health Services Research

Mache S, Vitzthum K, Groneberg DA, Harth V. Effects of a multi-behavioral health promotion program at

worksite on smoking patterns and quit behavior. WORK. 2019; 62(4):543-551

Mette J, Velasco Garrido M, Preisser AM, Harth V, Mache S. Workplace health promotion for employees working in offshore wind parks in the German exclusive economic zone: a mixed- methods study. BMJ Open. 2018 5;8(8):eo20493.

Mache S, Bernburg M, Baresi L, Groneberg D. Mental health promotion for junior physicians working in emergency medicine. Eur J Emerg Med. 2018;25(3):191-198

Bernburg M., Vitzthum, K., Groneberg, D., Mache, S. Physicians' occupational stress, depressive symptoms and work ability in relation to their working environment: a cross-sectional study of differences among medical residents with various specialties working in German hospitals. BMJ Open. 2016;6(6):eo11369.

Velasco Garrido M, Bittner C, Harth V, Preisser AM. Health status and health-related quality of life of municipal waste collection workers- a cross sectional survey. J Occup Med Toxicol. 2015 Jul 8;10:22.

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), (PI: V. Harth, M. Oldenburg)

BestOff – Safety and health in the offshore wind industry through competence development, coordination and a corporate culture conducive to learning (2016-2019), Federal Ministry

of Education and Research (CO-PI: V. Harth, A.M. Preisser, S. Mache)

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)



Major research interests in Health Services Research

The ZIS is an interdisciplinary research centre 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 centre 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

O'Donnell A, Addison M, Spencer L, Zurhold H, Rosenkranz M, McGovern R, Gilvarry E, Martens MS, Verthein U, Kaner E (2018) Which individual, social and environmental influences shape key phases in the amphetamine type stimulant use trajectory? A systematic narrative review and thematic synthesis of the qualitative literature. *Addiction* Sep 3. doi: 10.1111/add.14434 (IF 5.7)

Schäfer I, Pawils S, Driessen M, Härter M, Hillemaier T, Klein M, Muehlhan M, Ravens-Sieberer U, Schäfer M, Scherbaum N, Schneider B, Thomasius R, Wiedemann K, Wegscheider K, Barnow S (2017) Understanding the Role of Childhood Abuse and Neglect as a Cause and Consequence of Substance Abuse: The German CANSAS-Network. *European Journal of Psychotraumatology*, doi:10.1080/20008198.2017.1304114 (IF 3.2)

Fraser H, Martin NK, Brummer-Korvenkontio H, Carrieri P, Dalgard O, Dillon J, Goldberg D, Hutchinson S, Jauffret-Roustide M, Kåberg M, Matser AA, Midgard H, Mravcik V, Øvrehus A, Prins M, Reimer J, Robaey R, Schulte B, van Santen DK, Zimmermann R, Vickerman P, Hickman M (2018) Model projections on the impact of HCV treatment in the prevention of HCV transmission among people who inject drugs in Europe. *Journal of Hepatology*, 68 (3): 402–411 (IF 14.9)

Strada L, Franke GH, Schulte B, Reimer J, Verthein U (2017) Development of OSTQOL: A Measure of Quality of Life for Patients in Opioid Substitution Treatment. *European Addiction Research*, 23(5):238-248 (IF 2.7)

Buth S, Wurst FM, Thon N, Lahusen H, Kalke J. (2017) Comparative Analysis of Potential Risk Factors for at-Risk Gambling, Problem Gambling and Gambling Disorder among Current Gamblers – Results of the Austrian Representative Survey 2015. *Frontiers in Psychology*; doi: 10.3389/fpsyg.2017.02188 (IF 2.3)

Selected research projects in Health Services Research

Childhood Abuse and Neglect as a cause and consequence of Substance Use Disorders (2012-2016), Federal Ministry of Education and Research (PI: I. Schäfer)

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

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

Understanding Pathways to Stimulant Use: a mixed-methods examination of the individual, social and cultural factors shaping illicit stimulant use across Europe (2016-2019), European Research Area Network on Illicit Drugs / Federal Ministry of Health (PI: U. Verthein)

Extent and trends in the problematic prescribing of benzodiazepines, Z-substances, opioid analgesics and antidepressants in health insurance patients (2017-2019), Federal Ministry of Education and Research (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 epidemiology, diagnosis, prevention, and early intervention of problematic substance use and abuse. Furthermore, we conduct clinical research on treatment services for children and adolescents with substance use disorders and behavioral, particularly internet-related addictions. In our basic and applied research, we take a contextual-developmental perspective on addictive behaviors and related psychopathology. Our applied research is conducted under ecologically valid conditions with a focus on family and school settings and studies are designed to have practically relevant impact on health care.

An important aspect in this respect are questions of implementation, quality control and potential for long-term dissemination and sustainability, for example by means of published intervention manuals. An important area for the center is to explore the effectiveness of technology-based 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 and are currently 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

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(2), 186-222 (IF: 6.352).

Baldus, C., Zohsel, K., Schmidt, S.H., Esser, G., Banaschewski, T., Thomasius, R., Laucht, M. (2016). Predicting later problematic cannabis use from psychopathological symptoms during childhood and adolescence: Results of a 25-year longitudinal study. *Drug and Alcohol Dependence*, 163, 251-255. (IF: 3.322).

Arnaud, N., Diestelkamp, S., Wartberg, L., Sack, P.M., Daubmann, A., Thomasius, R. (2017). Short- to mid-term effectiveness of a brief motivational intervention to reduce alcohol use and related problems for alcohol intoxicated children and adolescents in pediatric emergency departments: a randomized

controlled trial. *ACAD EMERG MED* 24, 186–200. (IF: 2.925).

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).

Wartberg, L., Kriston, L., Thomasius, R. (2017). The prevalence and psychosocial correlates of Internet gaming disorder—analysis in a nationally representative sample of 12- to 25-year-olds. *Dtsch Arztebl Int* 114, 419–24. (IF: 4.257).

Selected research projects in Health Services Research

Psychnet – the Hamburg Network of Health Services Research (2011-2015), Federal Ministry of Education and Research (PI subproject 10: R. Thomasius)

PROHEAD – Promoting Help-seeking using E-technology for ADolescents (2017-2021), Federal Minis-

try of Education and Research (PI subproject 3: R. Thomasius)

IMAC-MIND – Verbesserung der psychischen Gesundheit und Verringerung der Suchtgefahr im Kindes- und Jugendalter, Federal Ministry of Education and Research (PI subproject 6 and coordinator: R. Thomasius)

CANSAS - Suchterkrankungen als Ursache und Folge früher Gewalt (PI subproject 2.B: R. Thomasius)

Strengthening Families Program 10-14, Federal Ministry of Education and Research (PI: R. Thomasius)



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

International and national cooperation in health
services research: Göttingen, Düsseldorf, München,
Berlin, Rostock, Zürich

Selected publications in Health Services Research

Koehler F, Koehler K, Deckwart O, Prescher S, Wegscheider K, Kirwan BA, Winkler S, Vettorazzi E, Bruch L, Oeff M, Zugck C, Doerr G, Naegel H, Störk S, Butter C, Sechtem U, Angermann C, Gola G, Prondzinsky R, Edelmann F, Spethmann S, Schellong SM, Schulze PC, Bauersachs J, Wellge B, Schoebel C, Tajsic M, Dreger H, Anker SD, Stangl K. Efficacy of telemedical interventional management in patients with heart failure (TIM-HF2): a randomised, controlled, parallel-group, unmasked trial. *Lancet*. 2018 Sep 22;392(10152):1047-1057.

Gerhardus A, Becher H, Groenewegen P, Mansmann U, Meyer T, Pfaff H, Puhon M, Razum O, Rehfuess E, Sauerborn R, Strech D, Wissing F, Zeeb H, Hummers-Pradier E (2016) Applying for, reviewing, and funding public health research in Germany and beyond *Health Research Policy and Systems* 14:43 doi:10.1186/s12961-016-0112-5

Wegscheider K, Koch-Gromus U. Die Versorgungsforschung als möglicher Profiteur von Big Data. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz*. 2015 Aug;58(8):806-812.

Gágyor I, Bleidorn J, Kochen MM, Schmiemann G, Wegscheider K, Hummers-Pradier E. Ibuprofen versus fosfomycin for uncomplicated urinary tract infection in women: randomised controlled trial. *BMJ*. 2015 Dec 23;351:h6544.

From hypertension control to global cardiovascular risk management: an educational intervention in a cluster-randomised controlled trial. Mortsiefer A, Meysen T, Schumacher M, Abholz HH, Wegscheider K, In der Schmitt J. *BMC Fam Pract*. 2015 May 7;16:56

Selected research projects in Health Services Research

PERGOLA (Prädiktoren und Risikofaktoren für relevante chronische Erkrankungen und Inanspruchnahme gesundheitsbezogener Leistungen unter besonderer Berücksichtigung von Aussiedlern), first funding phase 2015-2018, BMBF, PI Becher

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

COMET (Collaborative and Stepped Care in Mental Health by Overcoming Treatment Sector Barriers), G-BA Innovationsfonds, 2017-2020, PI Härter

GetFeedback (Depressions-Screening in der Hausarztpraxis: Steigerung der klinischen Effektivität und ökonomischen Effizienz durch patientenorientiertes Feedback), 2018-2021, G-BA Innovationsfonds, PI Löwe

CareFamNet (Children affected by rare disease and their families – network), 2018-2021, G-BA Innovationsfonds, PI Wiegand-Grefe



Department for Psychosomatic Medicine and Psychotherapy

Director: Prof. Dr. med. Bernd Löwe

Major research interests in Health Services Research

Research at the Institute and Outpatients Clinic for Psychosomatic Medicine and Psychotherapy focuses on patients with somatoform disorders, somatic symptom disorders, bodily symptoms in connection with chronic physical diseases, and on patients with eating disorders. We conduct research to better care for these patient groups; we take 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, our direct patient care 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 all sections of our research, for example, general practitioners and secondary care providers. Furthermore, we are interested in how networks for the care of people with somatoform disorders affect the improvement of physical symptom burden. Our empirical research methods range from qualitative methods to randomized controlled trials. All projects are supported with our expertise and research in psychometrics.

International and national cooperation in Health Services Research

Psychosomatics at the UKE is a partner of psychenet, a Hamburg-based care model for the treatment of people with mental diseases. 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. 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. The quality circle Soma und Psyche im Dialog brings together experts from psychosomatics and psychotherapy with general practitioners and physicians from other somatic disciplines. Our department participates nationally in the Qualifizierungsprogramm klinische Forschung, which is dedicated to promoting the scientific competence of doctoral students in psychosomatic research in Germany.

Selected publications in Health Services Research

Herzog, A., Shedden-Mora, M. C., Jordan, P., & Löwe, B. (2018). Duration of untreated illness in patients with somatoform disorders. *Journal of Psychosomatic Research*, 107, 1-6.

Hüsing, P., Löwe, B., Piontek, K., & Shedden-Mora, M. (2018). Somatoform disorder in primary care: The influence of co-morbidity with anxiety and depression on health care utilization. *Journal of Evaluation in Clinical Practice*, 24, 892-900.

Löwe, B., Blankenberg, S., Wegscheider, K., König, H.-H., Walter, D., Murray, A. M., . . . Kohlmann, S. (2017). Depression screening with patient-targeted feedback in cardiology: DEPSCREEN-INFO randomised clinical trial. *The British journal of psychiatry : the journal of mental science*, 210, 132-139.

Löwe, B., Piontek, K., Daubmann, A., Härter, M., Wegscheider, K., König, H.-H., & Shedden-Mora, M. (2017). Effectiveness of a Stepped, Collaborative, and Coordinated Health Care Network for Somatoform Disorders (Sofu-Net): A Controlled Cluster Cohort Study. *Psychosomatic Medicine*, 79, 1016-1024.

Weigel A, Hüsing P, Kohlmann S, Lehmann M, Shedden Mora M, Toussaint A, Löwe B (2017). A European research network to improve diagnosis, treatment and care for patients with persistent somatic symptoms: Work report of the EURONET-SOMA conference series. *Journal of Psychosomatic Research*, 97, 136-138.

Selected research projects in Health Services Research

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)

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)

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

Patienten für Patienten: Qualifizierte Peer-Beratung und Selbstmanagement für Patienten mit seltenen chronischen Erkrankungen, Robert Bosch-Stiftung (PI: B. Löwe)

Somatic Symptom Disorder according to DSM-5: development and validation of a new self-report measure (SSD-B), DFG - Deutsche Forschungsgemeinschaft (PI: A. Toussaint)



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, Wiegand 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.



Center for Dental and Oral Medicine

Department of Prosthetic Dentistry

Director: Prof. Dr. Guido Heydecke

Major research interests in Health Services Research

The department's research projects are focused on several areas: 1) evaluating the role of oral and dental inflammatory diseases as risk factor for other widespread diseases, such as diabetes, coronary heart disease, cerebrovascular disease, and stroke; 2) expanding the knowledge concerning the status of oral health and oral health literacy in people with a migration background and identifying special needs and barriers to access of care in this group; 3) investigating the epidemiology, public health impact, and dental as well as psychosocial risk factors for important orofacial pain conditions; and 4) 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, the Institute of Medical Biometry and Epidemiology, and the University Heart Center Hamburg of the UKE.

The Department participates in the Hamburg City Health Study. National cooperation is focused on the NAKO Health Study and the e:Med Systems Medicine consortium, 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, the University of Minnesota.

Selected publications in Health Services Research

Aarabi G, Zeller T, Seedorf H, Reissmann DR, Heydecke G, Schaefer AS, Seedorf U. Genetic Susceptibility Contributing to Periodontal and Cardiovascular Disease. *J Dent Res* 2017;96(6):610-617.

Aarabi G, Reissmann DR, Seedorf U, Becher H, Heydecke G, Kofahl C. Oral health and access to dental care - a comparison of elderly migrants and non-migrants in Germany. *Ethn Health* 2017; 23:1-15.

Pauli LK, Aarabi G, Kriston L, von Wolff A, Heydecke G, Reissmann DR. Instruments and methods for assessing oral health and diagnosing dental diseases: A systematic review. *Comm Dent Oral Epidemiol* 2017;45(4):337-347.

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, Enkling N, Moazzin R, Haueter M, Worni A, Schimmel M. Long-term changes in oral health-related quality of life over a period of 5 years in patients treated with narrow diameter implants: A prospective clinical study. *J Dent* 2018;75:84-90.

Selected research projects in Health Services Research

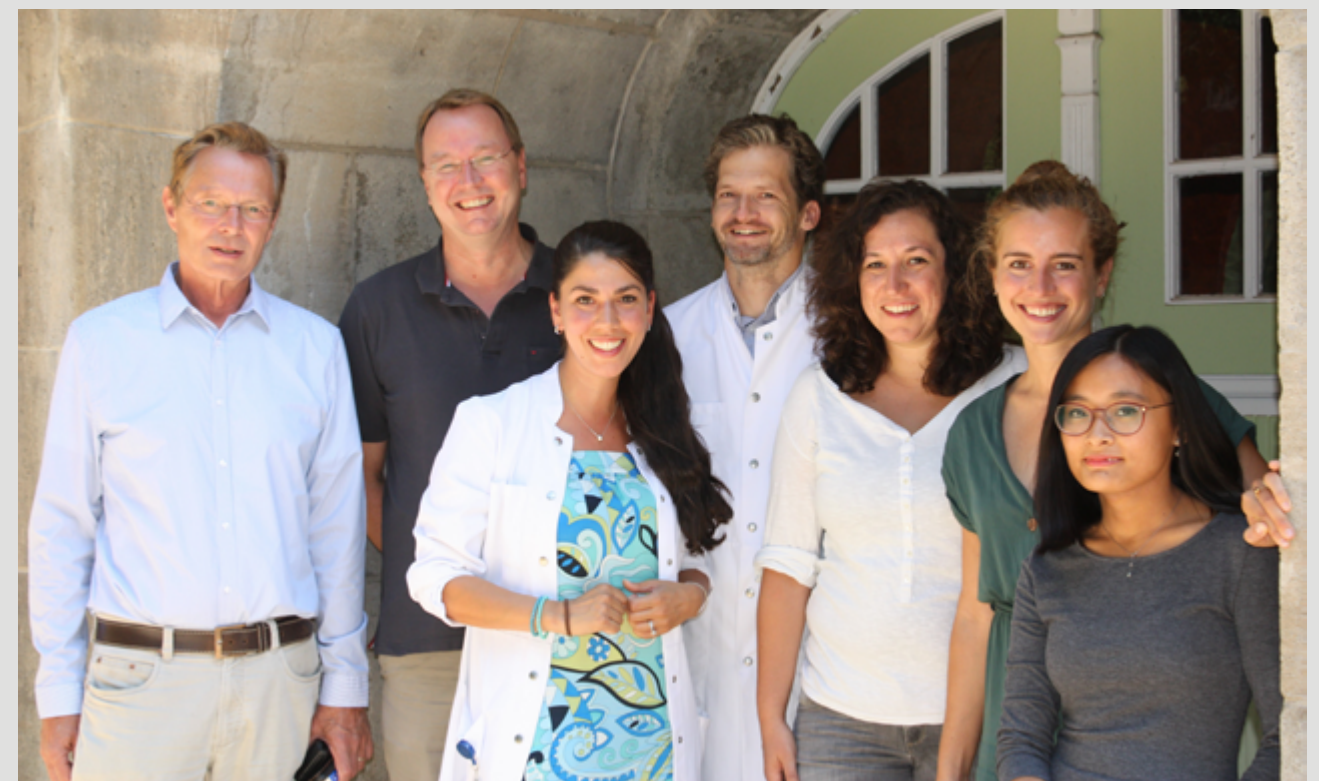
NAKO Level-3 PAROCARD study: Oral health and intima-media thickness. A population-representative study of the association between oral health and a surrogate marker for cardiovascular disease (2017-2020), Else Kröner-Fresenius Foundation (PI: G. Aarabi)

MuMi-project: Promoting Oral Health Literacy in Immigrants in Hamburg, Germany (2018-2021), Innovationsfond des Gemeinsamen Bundesausschuss (PI: G. Aarabi)

HCHS-PAROBRAIN Study: Association between oral inflammation, white matter lesions, and silent stroke (2019-2021), German Research Foundation, DFG (PI: G. Aarabi)

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)



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

Director: Prof. Dr. Ulrich Thiem

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 number of studies were started under the umbrella of LUCAS, coordinated by the research department at the AH. Most projects were grouped around the core pro-

ject - the longitudinal LUCAS cohort. 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. Dissemination basis is the long existing 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, 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

Roller-Wirnsberger RE, van den Noortgate N, Bonin-Guillaume S, Andersen-Ranberg K, Hylen Ranhoff A, Münzer T, Grodzicki T, Conroy S, Landi F, Mieiro L, Dapp U, van Deelen R, Eldholm RS, Marti-

nez-Velilla N, Singler K (2018): Setting competencies and standards for a European Leadership Program in Geriatric Medicine: “The European Academy for Medicine of Ageing (EAMA) reloaded”. *Eur Geriatr Med.* 2018; 9:399–406.

von Renteln-Kruse W, Minder CE (2016): It is Time to Detect Preclinical Signs of Incipient Frailty. *J Am Geriatr Soc.* 2016; 64:2166-2167.

Dapp U, Minder CE, Anders J, Golgert S, von Renteln-Kruse W (2014): Long-term prediction of changes in health status, frailty, nursing care and mortality in community-dwelling senior citizens—results from the Longitudinal Urban Cohort Ageing Study (LUCAS). *BMC Geriatr* 2014;14:141

Selected research projects in Health Services Research

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, U. Dapp)

PROLONG HEALTH - Multi-component health PROMOTION and primary preventive intervention programmes and LONG-term evaluation in HEALTHY community-dwelling senior citizens (2014-2016), Fed. Min. of Ed. and Research (PI: U. Dapp)

LUCAS research consortium – Longitudinal Urban Cohort Ageing Study (2007-2014), National Research Umbrella “Health in old age/Gesundheit im Alter” Federal Ministry of Education and Research (PI: v. Renteln-Kruse)

NWGA – NetzWerk GesundAktiv/Network HealthActive: Evaluation of acceptance, structures and processes (2017-2021), G-BA Innovationsfonds (former PI: v. Renteln-Kruse, since 10/2018 acting head U. Dapp)

Hamburger Hausbesuch für Seniorinnen und Senioren/Hamburg home visit for older people (2018-2020), Hamburg Ministry of Health and Consumer Protection (PI: L. Neumann)



Major research interests in Health Services Research

- Domestic violence, child abuse and neglect, elderly abuse, epidemiology of decubitus, self-inflicted injuries. Sexual violence, rape
- Substance abuse, alcohol abuse. Acute intoxications, analytical toxicology. Criminality in relation to substance abuse.
- Trauma and post-traumatic stress disorder.
- Suicides, committed suicide, suicidal behavior.
- Methodological approaches: To investigate violent and criminal actions with morphological (especially post-mortem and imaging techniques) and chemical-toxicological investigations with respect to reconstruction and judicial aspects.

International and national cooperation in Health Services Research

- Institutes for legal forensic medicine in different countries.
- 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 for example Japan, Syria and Rwanda.

Selected publications in Health Services Research

Mushumba, H., Franke, B., Mutesa, L., Püschel, K. (Eds.)(2017) Forensic Science in Rwanda. Developments, Synergies and New Actions. Forschungsergebnisse aus dem Institut für Rechtsmedizin der Universität Hamburg. Verlag Dr. Kovac

Von Renteln-Kruse, W., Dapp, U., Neumann, L., Anders J., Pröfener, F., Brieler, P., Püschel, K. (2017) Mobilität und Verkehrssicherheit im Alter. Verlag De Gruyter

Sielaff, M., Püschel, K. (Hg.)(2017) Mit Druck umgehen. 20 Jahre Dekubitus-Monitoring für die Pflege in Hamburg. Veröffentlichung der Hamburgischen Pflegegesellschaft e.V.

Feder, I., Schulz, F., Stühmer, A., Theile, A. Lockemann, U., Tannapfel, A., Püschel, K. (2016) Berufserkrankungen im Zusammenhang mit Asbest-Entwicklungen aus Hamburg und Umgebung. Arbeitsmed Sozialmed Umweltmed 51: 646-659

Kodolitsch, T. von, Rybczynski, M., Vogler, M., Mir, T., Schüler, H., Kutsche, K., Rosenberger, G., Detter, C., Bernhardt, A., Larena-Avellaneda, A., Kölbel, T., Debus, A. Schroeder, M., Linke, S., Fuisting, B., Napp, B. Kammal, A.L., Püschel, K., Bannas, P. Hoffmann, B., Gessler, N., ... (2016) The role of the multidisciplinary health care team in the management of patients with Marfan syndrome. J Multidiscipl Healthcare 9: 587-614

Selected research projects in Health Services Research

Püschel, K., Franke, B. "Partnership in the health sector for developing countries (PAGEL)". German academic exchange service (DAAD); laufend.

Langer, A. u.a. (HAW) in Kooperation mit Püschel, K. „(Wieder)Eingliederung alter, desorganisiert lebender Menschen in das Unterstützungs- und Hilfesystem (ADELE). – Förderbescheid des BMBF vom 08.12.2016“

Schröder, A.S., Bartz, H.-J., Härter, M. u.a. „Verbesserung der Patientensicherheit durch eine systematische postmortale Patientenaktenanalyse. Innovationsfonds (seit 2018)

Püschel, K., Heinemann, A. „Entwicklung eines forensisch-radiologischen Modell-Curriculums mit fachradiologischem Mentoring zur Weiterqualifizierung von rechtsmedizinisch tätigen Ärzten am UKE. GEORG UND JÜRGEN RICKERTSEN STIFTUNG (genehmigt 2018)

Karakas, M. in Kooperation mit Püschel, K., u.a. „HAMBURG-TAVI: The Hamburg post-mortem study for the evaluation of the mid- and long-term durability of transcatheter bioprosthetic aortic valves. UKE-Herzzentrum

Center for Anesthesiology and Intensive Care

Department of Anesthesiology

Director: Prof. Dr. Christian Zöllner

Major research interests in Health Services Research

Our research deals with the inpatient health care of elderly persons undergoing surgery. This includes patient preparation for the planned operation in the interface between the outpatient and inpatient sector as well as patient-centered care pathways within the hospital once a patient has been admitted. 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 postoperative 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 (ESA) and the Society for the Advancement of Geriatric Anesthesia (SAGA).

Selected publications in Health Services Research

Anästhesiologische Behandlungspfade für ältere Patienten. Olotu C. Anästhesiologie. Kompendium und Repetitorium zur interdisziplinären Weiter- und Fortbildung. Ecomed Storck, Hrsg: Eckart / Jaeger / Möllhoff

Die perioperative Versorgung des älteren Patienten. Eine interdisziplinäre Übersicht. Olotu C., Weimann A., Schwenk W., Scherer M., Liener U., Kiefmann R. Under revision: Deutsches Ärzteblatt

Olotu-Steffen C, Gurlit S, Kiefmann R. (2017) [Preoperative Evaluation and Arrangements: The Elderly Patient]. Anesthesiol Intensivmed Notfallmed Schmerzther. 2017 May;52(5):342-355

Selected research projects in Health Services Research

PHAROS: (RCT) Pharmaceutical 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) Innovation funds of the Federal Joint Committee (PI: C.Olotu)

tion 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 (Vascular Surgery - Angiology - Endovascular Therapy)

Director: Prof. Dr. E. Sebastian Debus

Major research interests in Health Services Research

The main research and work of the department focuses on the areas of health care and vascular epidemiology and vascular care, aortic pathologies and peripheral occlusive disease. By means of analyzing claims and health care statistics data sources, as well as implementation of registries and registry studies, the research group aims to harmonize patient care on a national and international level. Finally, this research is aiming to achieve better evidence in patient treatment modalities in order to increase patient safety. This also applies to surveillance of medical devices.

International and national cooperation in Health Services Research

The department of vascular medicine developed various national and international cooperations.

- GermanVasc work group for health services research (www.germanvasc.de)
- VASCUNET committee of the European Society for Vascular Surgery (ESVS)
- International Consortium of Vascular Registries (ICVR)
- Medical Device Epidemiology Network (MDE-piNet)
- European Reference Network for Rare Vascular Diseases (VASCern)

- International partnership and collaboration with the Weill Cornell Medical College (New York City, USA)

Selected publications in Health Services Research

Rieß HC, Debus ES, Schwaneberg T, Sedrakyan A, Kölbel T, Tsilimparis N, Larena-Avellaneda A, Behrendt CA. Gender disparities in fenestrated and branched endovascular aortic repair. *Eur J Cardiothorac Surg.* 2019;55:338-344.

Behrendt CA, Debus ES, Schwaneberg T, Rieß HC, Dankhoff M, Makaloski V, Sedrakyan A, Kölbel T. Predictors of Bleeding or Anaemia requiring Transfusions in Complex Endovascular Aortic Repair and its Impact on Outcomes in Health Insurance Claims. *J Vasc Surg.* 2019;In Press.

Behrendt CA, Sigvant B, Szeberin Z, Beiles B, Eldrup N, Thomson I, Venermo M, Altreuther M, Menyhei G, Nordanstig J, Clarke M, Rieß HC, Björck M, Debus ES. International Variations in Amputation Practice - A VASCUNET Report. *Eur J Vasc Endovasc Surg.* 2018;56:391-399.

Debus ES, Kriston L, Schwaneberg T, Hischke S, Rieß HC, Härter M, Marschall U, Federrath H, Behrendt CA. Rationale and Methods of the IDOMENEO Health Outcomes of Peripheral Arterial Disease Revascularisations Study in the GermanVasc Registry. *VASA.* 2018;47:499-505.

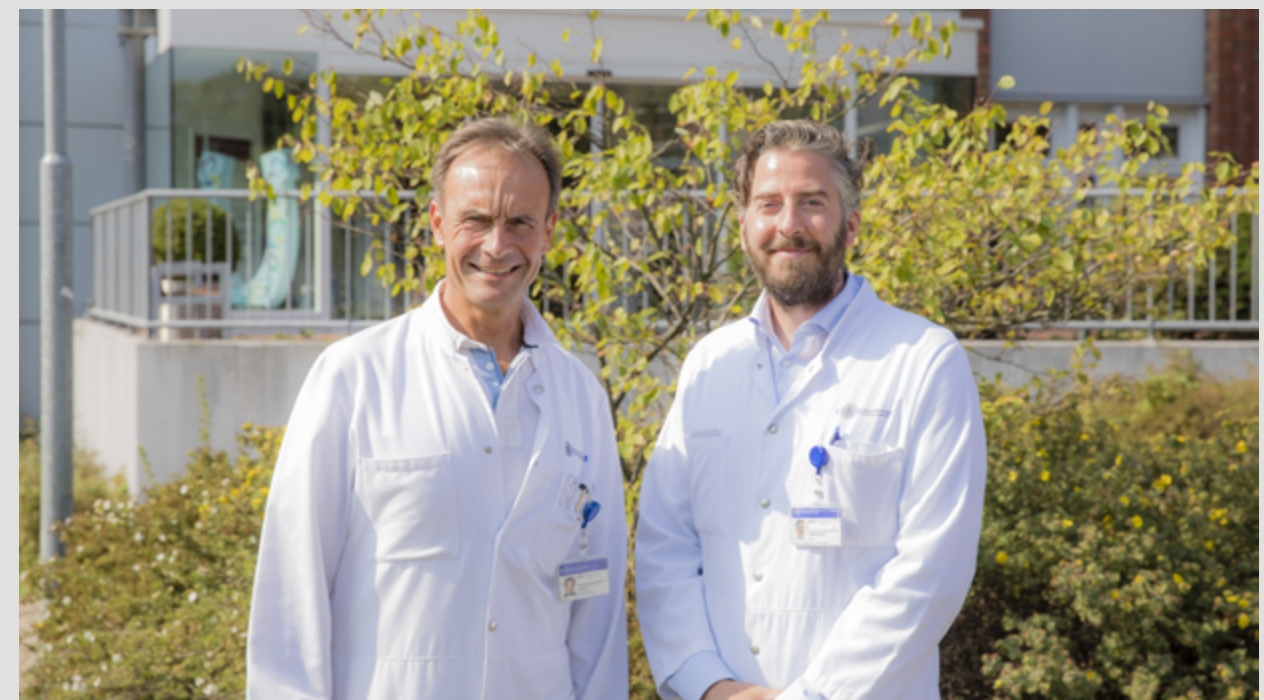
Behrendt CA, Rieß HC, Schwaneberg T, Larena-Avellaneda A, Kölbel T, Tsilimparis N, Spanos K, Debus ES, Sedrakyan A. Incidence, predictors and outcomes of colonic ischaemia in abdominal aortic aneurysm repairs. *Eur J Vasc Endovasc Surg.* 2018;56:507-513.

2018 Innovationsfond: RABATT study (1.358 Mio €), PI Christian-Alexander Behrendt

2016 CORONA Stiftung: Aufbau eines AVK Registers für Deutschland (750.000 €) PI Sebastian Debus und Christian-Alexander Behrendt

Selected research projects in Health Services Research

2016 Innovationsfond: IDOMENEO study (3.567 Mio €) PI Sebastian Debus and Christian-Alexander Behrendt



Center for Surgical Science Department of Urology

Director: Prof. Dr. Margit Fisch

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 others to answer questions related to 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

Meyer CP, Allard CB, Sammon JD, et al. The impact of Medicare eligibility on cancer screening behaviors. Preventive medicine 2016;85:47-52.

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.

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.

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.



Department of Orthopedics

Director: Prof. Dr. Karl-Heinz Frosch

Major research interests in Health Services Research

The main research and work focus on all fields of orthopedic with special expertise in hip, knee and shoulder arthroplasty. The department conducts all types of studies, including basic scientific research, clinical studies, health care research studies and systematic reviews. Our research focuses both on patient surveys and on the analysis of care structures and surveys of health care service providers. In addition to clinical outcomes and standardized patient records, patient reported outcome measures (PROMs) are being used increasingly in studies to assess 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).

International and national cooperation in Health Services Research

The department has established close cooperative structures within the UKE, especially with the Department of Osteology and Biomechanics (IOBM). In addition, we established a close clinical and research cooperation with the Center for haemophilia, II. Medical Clinic and Polyclinic. Furthermore, joint projects with the Klinikum Bad Bramstedt, clinic of Orthopedics and the RehaCentrum Hamburg are being carried out at national level. Further cooperation has also been initiated with employees of the universities in Flensburg, Lübeck, Rostock and Würzburg.

Selected publications in Health Services Research

Burghardt, R.D., Kazim, M.A., Rütther, W., Niemeier, A., Strahl A. (2019). The impact of physical activity on serum levels of inflammatory markers in rheumatoid arthritis: a systematic literature review. *RHEUMATOL INT*, 39(5), 793-804.

Simon, M.J.K., Strahl, A., Mussawy, H., Rolvien, T., Schumacher, R. F., Seller, M., Rütther, W. (2019). Forefoot reconstruction following metatarsal head resection arthroplasty with a plantar approach: A 20-year follow-up. *FOOT AND ANKLE INT*, doi: doi/10.1177/1071100719840814.

Hawellek, T., Hubert, J., Hischke, S., Krause, M., Bertrand, J., Schmidt, B.C., Kronz, A., Püschel, K., Rütther, W., Niemeier, A. (2018). Calcification of the acetabular labrum of the hip: prevalence in the general population and relation to hip articular cartilage and fibrocartilage degeneration. *ARTHRITIS RES THER*, 20(1), 104.

Schmidt, T., Ebert, K., Rolvien, T., Oehler, N., Lohmann, J., Papavero, L., Kothe, R., Amling, M., Barvencik, F., Mussawy, H. (2018). A retrospective analysis of bone mineral status in patients requiring spinal surgery. *BMC MUSCULOSKELET DISORD*, 19(1), 53.

Strahl, A., Schneider, O., Frankenhauser-Mannuß, J., Knapstein, S., Hermann, C., Lembeck, B., Lorenz, H.-M., Rütther, W., Flechtenmacher, J. (2018). Prävalenz, Komorbidität und interdisziplinäre Versorgung der rheumatoiden Arthritis – Versicherungsdaten zur ambulanten und stationären Versorgung in Baden-Württemberg. *Z RHEUMATOL*, 77(2), 113-126.

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)

STWmbR – Development of evaluable allocation criteria for complex stepwise reintegration with accompanying rehabilitation (2016-2018), Verein zur Förderung der Rehabilitationsforschung in Hamburg, Mecklenburg-Vorpommern und Schleswig-Holstein (PI: W. Rütther)

Specialist medical care, physical functionality and psychological burdens of elderly people with rheumatic diseases in the federal state Schleswig-Holstein and the city-state Hamburg (2015-2018), Department of Orthopedics (PI: W. Rütther)



Department of Neuroimmunology and Multiple Sclerosis

Director: Prof. Dr. Manuel Friesen

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. During the last 5 years web-based tools and interventions have been increasingly focused. 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 impacted 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.

Gaissmaier W, Giese H, Galesic M, Garcia-Retamero R, Kasper J, Kleiter I, Meuth SG, Köpke S, Heesen C. (2017) Numeracy of multiple sclerosis patients: A comparison of patients from the PERCEPT study to a German probabilistic sample. Patient Educ Couns. 2017 Jul 17. pii: S0738-3991(17)30431-7.

Heesen C, Pöttgen J, Rahn AC, Liethmann K, Kasper J, Vahter L, Drulovic J, Van Nunen A, Wilkie D, Beckmann Y, Paul F, Köpke S, Giordano A, Solari A; AutoMS-group. (2017) What should a person with relapsing remitting multiple sclerosis know? - Focus group and survey data of a risk knowledge questionnaire (RIKNO 2.0). Mult Scler Relat Disord. 2017a Nov;18:186-195.

Rahn AC, Backhus I, Fuest F, Riemann-Lorenz K, Köpke S, van de Roemer A, Mühlhauser I, Heesen C (2016) Comprehension of confidence intervals - development and piloting of patient information materials for people with multiple sclerosis:

qualitative study and pilot randomised controlled trial. BMC Medical Informatics and Decision Making. 16(1): 122.

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) lead by Christian Gerloff, and the Clinical Stroke and Imaging Research (CSI) lead by Götz Thomalla, aim at improving the understanding and treatment of stroke and cerebrovascular disease including neurorehabilitation research and health services research.

Neurorehabilitation research comprises clinical trials of novel treatment approaches (e.g., the NETS trial) as well as systematic evaluation of standards and outcome of Neurorehabilitation in clinical practice. In IMPROVE, co-funded by the Deutsche Rentenversicherung Nord, we have established a platform for neurorehabilitation research that enables the collection of data on outcome of neurorehabilitation following stroke in clinical practice, as well as the realization of innovative treatment studies.

Patient preferences and patient reported outcome measures (PROMs) represent a further research area of our groups. In the EPOS project, we have implemented the systematic collection of PROMs using the ICHOM Standard Set Stroke in daily clinical practice in patients treated at the stroke unit of our hospital.

Clinical trials of acute stroke treatment represent a core research area of our department. The results of the WAKE-UP trial, that demonstrated efficacy and safety of intravenous thrombolysis in patients with stroke of unknown onset, have been adapted in clinical practice immediately and led to changes in guidelines for acute stroke treatment. Beyond the coordination of clinical trials (e.g., WAKE-UP), this also comprises associated research such as the stu-

dy of the impact of the manner of obtaining informed consent in acute stroke trials

In several research projects we systematically studied clinical practice of stroke and cerebrovascular research treatment. In an analysis of real-world experience with treatment decision making in carotid artery stenosis in the context of a multidisciplinary neurovascular board, we described the decision processes and analyses accordance with guideline recommendations. Improvement of stroke care beyond the acute in-hospital treatment represents another key area of our re-search which we pursue in the systematic evaluation of optimized post-acute stroke care, e.g. in the StroCare project.

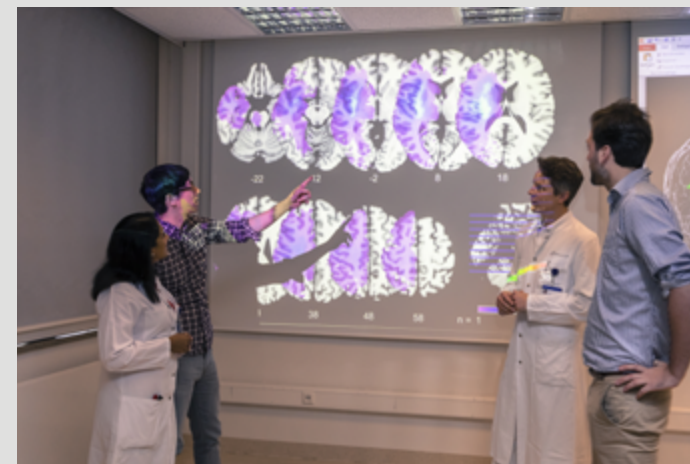
International and national cooperation in Health Services Research

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

Alegiani AC, Dorn F, Herzberg M, Wollenweber FA, Kellert L, Siebert E, Nolte CH, von Rennenberg R, Hat-

tingen E, Petzold GC, Bode FJ, Pfeilschifter W, Schäfer JH, Wagner M, Röther J, Eckert B, Kraft P, Pham M, Boeckh-Behrens T, Wunderlich S, Bernkopf K, Reich A, Wiesmann M, Mpotsaris A, Psychogios M, Liman J, Maier I, Berrouschot J, Bormann A, Limmroth V, Spreer J, Petersen M, Krause L, Lowens S, Kraemer C, Zweynert S, Lange KS, Thonke S, Kastrup A, Panagiotou P, Alber B, Braun M, Fiehler J, Gerloff C, Dichgans M, Thomalla G. Systematic evaluation of stroke thrombectomy in clinical practice: The German Stroke Registry Endovascular Treatment. *Int J Stroke*. 2019 Jun;14(4):372-380.



Alegiani AC, Albrecht S, Rahn AC, Köpke S, Thomalla G, Heesen C. Reasons for delayed admission after stroke: results of a qualitative and quantitative survey. *Patient Prefer Adherence*. 2019 May 8;13:739-747.

Thomalla G, Simonsen CZ, Boutitie F, Andersen G, Berthezene Y, Cheng B, Cheripelli B, Cho TH, Fazekas F, Fiehler J, Ford I, Galinovic I, Gellissen S, Golsari A, Gregori J, Günther M, Gui-bernau J, Häusler KG, Hennerici M, Kemmling A, Marstrand J, Modrau B, Neeb L, Perez de la Ossa N, Puig J, Ringleb P, Roy P, Scheel E, Schonewille W, Serena J, Sunaert S, Villringer K, Wouters A, Thijs V, Ebinger M, Endres M, Fiebach JB, Lemmens R, Muir KW, Nighoghossian N, Pedraza S, Gerloff C; WAKE-UP Investigators (2018) MRI-Guided Thrombolysis for Stroke with Unknown Time of Onset. *N Engl J Med*; 379:611-622

Rimmele DL, Larena-Avellaneda A, Alegiani AC, Rosenkranz M, Schmidt NO, Regelsberger J, Hummel FC, Magnus T, Debus ES, Fiehler J, Gerloff C, Thomalla G (2017) Real-world experience of treatment decision-making in carotid stenosis in a neurovascular

board. *Neurology* 25;89(4):399-407

Thomalla G, Boutitie F, Fiebach JB, Simonsen CZ, Nighoghossian N, Pedraza S, Lemmens R, Roy P, Muir KW, Heesen C, Ebinger M, Ford I, Cheng B, Cho TH, Puig J, Thijs V, Endres M, Fiehler J, Gerloff C. Effect of informed consent on patient characteristics in a stroke thrombolysis trial. *Neurology*. 2017 Sep 26;89(13):1400-1407.

Selected research projects in Health Services Research

„StroCare - Optimierte sektorenübergreifende, koordinierte und evidenzbasierte Behandlung von Schlaganfallpatienten durch übergreifende Prozessverantwortung und patientenorientierte Ergebnisqualitätsmessung“ (2019-2022) (Innovation Found GB-A) (PI: Götz Thomalla)

„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) funding by “Innovationsfond des GB-A” (Innovation Found GB-A) (PI: Götz Thomalla)

“PREvention of Complications to Improve Outcome in elderly patients with acute Stroke (PRE-CIOUS)” (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., Breitscheidel, 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 AUGENHEIL-KUNDE, 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)

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 renal replacement therapy, chemotherapy in patients undergoing stem cell transplantation or analosedation in children.

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) of as members and chairs.

Selected publications in Health Services Research

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.

Baehr M, Melzer S: Closed Loop Medication Management: Arzneimitteltherapiesicherheit im Krankenhaus. 2017. 1. Aufl. Berlin: Medizinisch Wissenschaftliche Verlagsgesellschaft.

Wickop B, Härterich S, Sommer C, Daubmann A, Baehr M, Langebrake C: Potentially Inappropriate Medication Use in Multimorbid Elderly Inpatients: Differences Between the FORTA, PRISCUS and STOPP Ratings. Drugs Real World Outcomes. 2016;3(3):317-325.

Langebrake C, Ihbe-Heffinger A, Leichenberg K, Kaden S, Kunkel M, Lueb M, Hilgarth H, Hohmann C: Nationwide Evaluation of Day-to-Day Clinical Pharmacists' Interventions in German Hospitals. PHARMACOTHERAPY. 2015;35(4):370-9.

Baehr M, van der Linde A, König R, Melzer S, Langebrake C, Grothe-Tenberge C, Hug M: Kopplung von elektronischer Verordnung und patientenorientierter Logistik. Krankenhauspharmazie. 2014;35(4):110-7.

Selected research projects in Health Services Research

PHAROS: Pharmazeutisches Management von älteren Risikopatienten im operativen Setting (2018-2020), Federal Ministry of Health (Kieffmann, Olotu, Langebrake, Bergelt)

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

Untersuchung des Einflusses eines klinischen Pharmazeuten bei der Betreuung von Stomapatienten (van der Linde, Langebrake, Bockhorn, Scherer)

Telepharmazie in der Intensivmedizin (Hilgarth, Langebrake, Kluge)

Arzneimitteltherapiesicherheit älterer Patienten (Wickop, Langebrake)



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