



Forschungsaktivitäten

des

Zentrums für Intensivmedizin Metropole Ruhr (ZIMR) am Universitätsklinikum Essen

Stand: April 2024



Universitätsmedizin Essen

Universitätsklinikum

Zentrum für Intensivmedizin

Metropole Ruhr (ZIMR)

Forschungsaktivitäten

Die am ZIMR beteiligten Kliniken ermöglichen den Patient:innen über umfangreiche Forschungsaktivitäten den Zugang zu modernsten diagnostischen sowie therapeutischen Verfahren.

Das Universitätsklinikum Essen hat ein eigenes Studienzentrum (<https://umesz.de/>). Zusätzlich verfügen einzelne am ZIMR beteiligten Kliniken über eigene Studienzentren (z.B. <https://anaesthesie.uk-essen.de/index.php?id=4565>, <https://www.uni-essen-haematologie.de/studienzentrum/>, <https://herz-chirurgie.uk-essen.de/studienzentrum/>). Alle am ZIMR beteiligten Kliniken nehmen an nationalen sowie internationalen Multicenter-Studien teil bzw. sind teilweise primär dafür verantwortlich.

Eine Auswahl an Publikationen, die Mitarbeit an Konsensuspapieren und Leitlinien sowie aktuelle Studienprojekte sind in der nachfolgenden Übersicht zu den Forschungsaktivitäten der beteiligten Kliniken zusammengefasst:

Publikationen

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Studien

- LeAf-Trauma multizentrisch
- Sarilumab for COVID-19 AMG Phase III multizentrisch
- IFX-1 and severe COVID-19 pneumonia AMG Phase III multizentrisch
- RISCOVID-19 Prospektive Observationsstudie monozentrisch
- Next Genesis Trial Prospektive Observationsstudie multizentrisch
- COVID Biobank Prospektive Observationsstudie monozentrisch
- Patient-Centred Outcomes and Resource Utilisation after noncardiac Surgery-D(Deutschland) (PACORUS-D) Prospektive Observationsstudie multizentrisch
- Prädiktiver Wert von Copeptin und Heart-Type Fatty Acid Binding Protein in der Herzchirurgie - Eine multizentrische prospektive Kohortenstudie (Practice) Prospektive Observationsstudie multizentrisch
- RELAX severe COVID-19 BO Plasmaaustausch bei COVID-19
- Safety and efficacy of inhaled pegylated adrenomedullin (PEG-ADM) in patients suffering from Acute Respiratory Distress Syndrome (ARDS): a double-blind, randomized, placebo-controlled, multicenter Phase 2a/b clinical trial (SEAL) AMG Phase II b multizentrisch
- Optimierung der Sepsis-Therapie auf Basis einer patientenindividuellen digitalen Präzisionsdiagnostik (DigiSep) IIT multizentrisch
- Next Generation Sequencing (NGS-) basierte Analyse Organ-spezifischer Schädigungssignaturen bei herzchirurgischen Patienten Prospektive Studie
- Biomarker gesteuerte Implementierung des KDIGO Bündels zur Reduktion der Inzidenz der akuten Nierenschädigung nach großen operativen Eingriffen (BigpAK-2) Pro- und Retrospektive Studie multizentrisch
- Multicenter, randomized, double-blind, biomarker-guided, phase II trial with Adre-cizumab (HAM 8101) to improve prognosIS and outcomES in patients with moderate to severe covid-19 - Adre-cizumab (HAM8101) to improve prognosIS and outcomES in covid-19 Trial (AGNES-19) AMG Phase II multizentrisch
- IL-3 und Lungentransplantation Prospektive Observationsstudie monozentrisch
- StaRTrEc in vascular surgery - Statin-mediated Regulatory T-cell Expansion for protection from cardio-vascular events in vascular surgery patients Prospektive Observationsstudie monozentrisch
- Intraoperative fresh gas flow and ventilation settings in Germany (NO-Harm) Prospektive Observationsstudie multizentrisch
- Vergleich des durch Krankenhauspersonal erwarteten Outcomes mit realen Outcomes von Patienten mit venoarterieller oder veno-venöser extrakorporaler Membranoxygenierung (ESTRELLA) Prospektive Observationsstudie multizentrisch
- Effekt von hochdosiertem Vitamin D3 auf die 28-Tages Mortalität bei erwachsenen kritisch kranken Patienten mit schwerem Vitamin D Mangel (Vitalize) AMG Phase III multizentrisch

- Einfluss einer Aciclovir-Therapie auf das Überleben von beatmeten Patienten mit einer Pneumonie und Nachweis von Herpes simplex Viren (HSV) in der bronchoalveolären Lavage (HERPMV)AMG Phase III multizentrisch
- Phase 2, Randomized, Double-blinded, Placebo-controlled, Multicenter Study to Assess Efficacy and Safety of Reparixin as add-on Therapy to SoC in Acute Respiratory Distress Syndrome (RESPIRATIO)AMG Phase II multizentrisch
- Prospektive, randomisierte Studie zur Personalisierten Medizin mit Pentaglobin® nach einer interventionellen Fokussanierung bei Peritonitis-Patienten (PEPPER)AMG Phase II multizentrisch
- Immunologische Diagnostik bei KontrollenProspektive Observationsstudie multizentrisch
- Study of Four-factor Prothrombin Complex Concentrate, OCTAPLEX, in Patients With Acute Major Bleeding on Direct Oral Anticoagulant (DOAC) Therapy With Factor Xa Inhibitor (OCTAPLEX)AMG Phase 3 multizentrisch
- A prospective, randomized, multicenter, single-blind, controlled study to assess the performance of the CytoSorb® 300 ml device for shock reversal in patients with vasoplegic septic shock "PROCYSS" Prospektive Observationsstudie multizentrisch
- Multizentrische Erhebung zur Transfusionspraxis im perioperativen und intensivmedizinischen Setting bei FG/Kindern bis 18 Jahren (TRAPA)Prospektive Observationsstudie multizentrisch
- Hyperspektrale Bildgebung als Monitoring der kutanen mikrozirkulatorischen
- 19 Reaktionsfähigkeit bei Patienten mit Sepsis HySplSepsisProspektive Observationsstudie multizentrisch
- EFRAIM III: internationale, multizentrische Studie zur Evaluation der Ergebnisse broncho-alveolärer Lavagen bei kritisch kranken immunkompromittierten Patienten auf der Intensivstation
- YELENNA: internationale, multizentrische Studie zur Evaluation des Outcomes und prognostischer Parameter des ARDS bei Krebspatienten
- „Intensivmedizinische Behandlung kritisch kranker PatientInnen nach zweiter allogener hämatopoetischer Stammzelltransplantation – eine retrospektive Datenanalyse aus einem multizentrischen prospektiven Datenregister (iCHOP)" (Arbeitskreis "Intensivmedizin" der DGHO)
- "Targeted Antineoplastic Therapy in Critically Ill Cancer Patients: A Multicenter Analysis of the iCHOP Registry" (Arbeitskreis "Intensivmedizin" der DGHO)
- kritisch kranke Patienten mit thrombotisch-thrombozytopenischer Purpura auf der Intensivstation - eine retrospektive Studie (Kooperation mit der Uniklinik Köln)
- ACTISAVE-Studie multizentrisch
- EuMAS (2023 abgeschlossen.) multizentrisch
- NormoNICU21 (in Auswertung) multizentrisch
- PERFECT CUE und P-PIRATE (in Planung) multizentrisch
- MPG SYNCHRITUDE Register Mechanische Kreislaufunterstützung
- MPG MOBYBOX Trial Mechanische Kreislaufunterstützung
- MPG STEMI-DTU Akuter Myokardinfarkt

- BO RIP-High Akuter Myokardinfarkt
- BO ECLS-Shock Kardiogener Schock
- AMG EPIDAURUS Akuter Myokardinfarkt
- MPG Peerless II Akute Lungenembolie
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- Exthera Studie (NCT04260789)
- IMPACT EU Multizentrische Studie (Impella-Protected Cardiac Surgery Trial in Europe: A European, Prospective, Multicenter, Post-Market Clinical Follow-Up Trial (IMPACT EU PMCF)) (HTC- Nat. PI: P. Akhyari, local PI: S. Shehada)
- MANTRA Multizentrische Studie (Mitral, Aortic and Tricuspid post-market Study in a real-world setting), Prospective, multi-arm, multi-center, global, post-market clinical follow-up study that monitors the safety and performance of the complete CORCYM portfolio in a real-world setting. (HTC-S. Shehada)
- QUARK -209 Multizentrische RCT (FDA-Studie) Phase II. NCT02610283: Teprasiran, a Small Interfering RNA, for the Prevention of Acute Kidney Injury in High-Risk Patients Undergoing Cardiac Surgery: A Randomized Clinical Study. Circulation. 2021 Oct 5;144(14):1133-1144. doi: 10.1161/CIRCULATIONAHA.120.053029. IF (2021):39,9 (HTC-M. Thielmann)
- MI after CABG Multizentrische Studie: Impact of myocardial injury after coronary artery bypass grafting on long-term prognosis. Eur Heart J. 2022 Jul 1;43:2407-2417. IF (2022):39,3 (HTC- M. Thielmann)

Mitarbeit an Leitlinien und Konsensuspapieren

- S3-Leitlinie Sepsis – Prävention, Diagnose, Therapie und Nachsorge, AWMF-Registernummer: 079 – 001 (Brenner)
- Positionspapier „Ökologische Nachhaltigkeit in der Anästhesiologie und Intensivmedizin“ der DGAI & BDA (derzeit in Überarbeitung, Brenner)
- Positionspapier zum Arbeiten in der Schwangerschaft auf der Intensivstation, DIVI-Empfehlungen zur Verbesserung der Lage von schwangeren Mitarbeiterinnen auf einer Intensivstation (Brenner)
- Erteilung einer Weiterbildungsbefugnis für die „Zusatzweiterbildung Intensivmedizin“ – Empfehlungen der Deutschen Gesellschaft für Anästhesiologie und Intensivmedizin e.V. (DGAI) in Abstimmung mit dem Berufsverband Deutscher Anästhesistinnen und Anästhesisten e.V. (BDA) (Herbstreit, Brenner)
- Mitarbeit an den neuen Empfehlungen zum Modularen zertifikat Intensivmedizin der DGAI (Herbstreit)
- DIVI-Fortbildungskommission (Vonderhagen)
 - Federführender LL-Koordinator: AWMF-LL Schädel-Hirn-Trauma im Kindesalter (Dohna-Schwake)
 - Nicht-Invasives Neuromonitoring bei kritisch kranken Kindern, aktuell in der Entstehung (Bruns)
 - Virale Bronchiolitis im Säuglings- und Kleinkindalter (Dohna-Schwake)
 - Strukturen der Pädiatrischen Intensivmedizin (Dohna-Schwake)
 - Beatmung (Bruns)
 - Internationalen Expertenstellungnahme "Extracorporeal membrane oxygenation in adults receiving haematopoietic cell transplantation: an international expert statement" Di Nardo et al., 2023 May (Lancet Respir Med; doi: 10.1016/S2213-2600(22)00535-5.) (Liebregts)
 - AGIHO-Leitlinien zur "Behandlung der neutropenen Sepsis bei Krebspatienten" Kochanek et al., 2018 (Ann Hematol 2019; doi: 10.1007/s00277-019-03622-0.) (Liebregts)
 - Konsensuspapiers "Consensus statement for cancer patients requiring intensive care support" Kiehl et al., 2018 (Ann Hematol, DOI: 10.1007/s00277-018-3312-y) für die Behandlung kritisch kranker Krebspatienten auf der Intensivtherapiestation. (Liebregts)
 - Auftrag von 2023 von der Deutschen Gesellschaft für Hämatologie und Onkologie (Arbeitskreis Intensivmedizin), die Überarbeitung des o.g. Konsensuspapiers zu führen. Die dreiteilige, überarbeitete Version wird voraussichtlich im 4. Quartal 2024 erscheinen. (Tzalavras, Mitw. Liebregts)
 - Federführender Autor der S2e-LL „Akuttherapie des ischämischen Schlaganfalls“ (Köhrmann)
 - Hauptautor S2k-LL 2024 „Sekundärprophylaxe Schlaganfall bei PFO“ (Köhrmann)
 - Autor S2k-LL „Myasthene Syndrome“ (Hagenacker)
 - Autor S2k-LL „Myositis-Syndrome“ (Hagenacker)
 - Autor S2k-LL „Spinale Muskelatrophie“ (Hagenacker)

- S3-Leitlinienkommission Prophylaxe der venösen Thrombembolie als Delegierte/Delegierter der Deutschen Gesellschaft für Neurointensiv (Totzeck)
- S2k-Leitlinienkommission „Immunneuropathien“ (inkl. Guillain-Barré-Syndrom) (Stettner)
- Deutsche Konsensusgruppe zur „Apheresetherapie in der Neurologie“ (Stettner)
- S2k-LL "ZNS-Lymphome". (Kebir)
- Positionspapier der DGK Professioneller Umgang mit sozialen Medien in der Kardiologie <https://leitlinien.dgk.org/2024/professioneller-umgang-mit-sozialen-medien-in-der-kardiologie/> (Rassaf, Messiha)
- Deutsche Übersetzung der ESC Leitlinie Cardio-Oncology für die DGK Pocket Leitlinie (Mitw. Rassaf, Michel)
- Aktive Mitarbeit in der ESC Leitlinie Cardio-Oncology (2022): ESC National Cardiac Societies actively involved in the review process of the 2022 ESC Guidelines on cardio-oncology: Germany: German Cardiac Society (Rassaf)
- Konsensuspapier der Deutschen Gesellschaft für Kardiologie – Herz- und Kreislaufforschung, der Deutschen Gesellschaft für Pädiatrische Kardiologie und Angeborene Herzfehler und der Deutschen Gesellschaft für Hämatologie und Medizinische Onkologie – 2022 (Rassaf)
- Konsensuspapier Onkologische Kardiologie der DGK (Rassaf, Totzeck)
- S3 LL (AWMF) Supportive Therapie - Publikation erwartet 2024 (Rassaf, Totzeck)
- S2k LL (AWMF) Langzeitnachsorge nach Krebs im Kindes- und Jugendalter - In Bearbeitung (Totzeck)
- S3-Leitlinie zu Screening, Diagnostik, Therapie und Nachsorge des Bauchaortenaneurysmas - Publikation erwartet 2024 (Rammos)
- Positionspapier der DGK – Therapie der extrakraniellen Carotistenose - Publikation erwartet 2024 (Rammos)
- (International Cardio-Oncology Society - ICOS) Konsensuspapier Research Priorities in Cardio-oncology - Manuskript pending (Totzeck, Rassaf)
- S2K-LL zu chronischen Aortendissektion: <https://register.awmf.org/de/leitlinien/detail/004-034>
- Behandlungen von akuten und chronischen Erkrankungen der thorakalen Aorta; Fokus Aortenbogen. Deutsche Gesellschaft für Thorax-, Herz- und Gefäßchirurgie (DGTHG); Unter Mitwirkung von:; Deutsche Gesellschaft für Interventionelle Radiologie und minimal-invasive Therapie (DeGIR), Deutsche Gesellschaft für Anaesthesiologie und Intensivmedizin e.V. (DGAI), Deutsche Gesellschaft für Kardiotechnik e.V. (DGfK), Deutsche Gesellschaft für Gefäßchirurgie und Gefäßmedizin - Gesellschaft für operative, endovaskuläre und präventive Gefäßmedizin e.V. (DGG), Deutsche Gesellschaft für Neurologie (DGN), Deutsche Gesellschaft für Kardiologie - Herz- und Kreislaufforschung e.V. (DGK), Deutsche Röntgengesellschaft (DRG); (Mitw. Czerny, Gross-Fengel, Harloff, Janosi, Kölbl, Mahnken, Raddatz, Rylski, Schmidt, Schneider, Teske, Berger) Thorac Cardiovasc Surg. 2023 Jun;71(S 03):S107-S136. doi: 10.1055/s-0043-1763500. Epub 2023 May 23

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- Bedeutung von Troponin-I in der Identifikation von Myokardinfarkt nach Bypassoperation, 2018 ESC/EACTS Guidelines on myocardial revascularization
- Perioperative Medikation in der Erwachsenenherzchirurgie, 2017 EACTS Guidelines on perioperative medication in adult cardiac surgery
- Messung der perioperativen zerebralen Sauerstoffsättigung und des Liquordrucks bei offenen und endovaskulären Aortenoperationen, EACTS/STS Scientific document group. EACTS/STS Guidelines for acute and chronic aortic syndromes
- Bedeutung der perioperativen Cytokin Hämoabsorption für Morbidität und Mortalität nach Klappenrekonstruktion/- ersatz, In Evaluation
- Management der hochgradigen Carotisstenose(n) bei operationspflichtiger KHK, Nationale Versorgungsleitlinie KHK
- Impella 5.5 als perioperatives MCS zur Verbesserung der Prognose nach Herzoperation bei hochgradig reduzierter LV Pumpfunktion, In Evaluation
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- Richtlinien Lungentransplantation 2023-2026 : § 16 Abs. 1 S. 1 Nrn. 2 u. 5 TPG für die Wartelistenführung und Organvermittlung zur Lungentransplantation (HTC- Federführend M. Kamler)
- Nationale Versorgungsleitlinie Chronische KHK: 5. Auflage 2019, AWMF-Register-Nr.: nvl-004, Version 6.0 (HTC-M. Thielmann)
- Deutsch-österreichische S3 Leitlinie „Infarktbedingter kardiogener Schock - Diagnose, Monitoring und Therapie“ - AWMF-Leitlinien-Register Nr. 019/013, 2. Auflage (HTC-M. Thielmann)
- Consensus Dokument der ESC WG on CVS und Cellular Biology of the Heart. ESC Joint Working Groups on Cardiovascular Surgery and the Cellular Biology of the Heart Position Paper: Perioperative myocardial injury and infarction in patients undergoing coronary artery bypass graft surgery. Eur Heart J. 2017;38:2392-2407. IF (2017):23,425 (HTC-M. Thielmann)