

## Curriculum Vitae

**Dr. med. Raphael Romano Bruno**

born in Wuppertal, Germany

present position: Consultant / Specialist  
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### EDUCATION AND TRAINING

2002 – 2014	Medical School, Julius-Maximilians-University of Würzburg and Friedrich-Alexander-University of Erlangen, Germany
2014 – 2015	Intern and resident at the University Hospital Nuremberg, Division of Emergency and Intensive Care medicine (Director Prof. Dr. med. M. Christ)
2015 – 2018	Intern and resident at the University Hospital Düsseldorf, Division of Nephrology (Director Prof. Dr. med. L. C. Rump)
2016	Doctoral thesis “Auswirkung von Infusionslösungen mit Hydroxyethylstärke (HES) auf humane proximale Tubulusepithelzellen der Niere <i>in vitro</i> “ (Prof. Dr. C. Wunder, Institute of Anaesthesia and Critical Care, University Hospital of Würzburg, („ <b>summa cum laude</b> “))
2018 – 2021	Intern and resident at the University Hospital Düsseldorf, Division of Cardiology, Pulmonology and Vascular Medicine (Director Prof. Dr. med. M. Kelm)
2021 – 2023	Consultant / Specialist, Division of Cardiology, Pulmonology and Vascular Medicine, University Hospital Düsseldorf, Germany
2023 – present	Senior physician ( <i>Oberarzt</i> ), Intensive Care Unit

### BOARD CERTIFICATIONS

2018	Emergency Medicine
2021	Internal Medicine and Cardiology
2022	Heart failure (DGK)
2022	Intensive Care Medicine
2022	Hypertensiology (DHL)
2022	Lipidology (DGFF)
2022	Cardiovascular Sleep Medicine (DGK)
2023	Cardiovascular Intensive Care and Emergency Medicine (DGK)



## RESEARCH FUNDING, GRANTS AND AWARDS

2019 – 2020	GEROK fellow (TRR259)
2011	3. Award for free speech („Freie Vorträge“), Hauptstadtkongress der DGAI für Anästhesiologie und Intensivtherapie
2016	Dr. Josef Schneider Award (Theresia - Stiftung) of the Medical Faculty of the University of Würzburg for outstanding research
2020	Research grant by Forschungskommission, Medical Faculty, Heinrich-Heine-University Düsseldorf, project title: “The value of bedside assessed microcirculation for outcome-prediction and treatment-optimization in intensive care medicine.”

## MEMBERSHIPS

2016 – present	Deutsche Interdisziplinäre Vereinigung für Intensiv- und Notfallmedizin (DIVI)
2019 – present	European Society of Intensive Care Medicine (ESICM)
2019 – present	Deutsche Gesellschaft für Kardiologie, Herz- und Kreislaufforschung e.V. (DGK). Working groups: S 3 “Young DGK“; AG 3 (Kardiovaskuläre Intensiv- und Notfallmedizin“; AG 17 (Thorakale Organtransplantation und mechanische Organunterstützungssysteme)
2022 – present	European Society of Cardiology (ESC)

## SCIENTIFIC RESEARCH

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Number of original papers with main authorship:	19 (total IF: 75.35)
Number of original papers in co-authorship:	38 (total wt. IF: 138.47)
Number of review articles:	7 (Total w. IF: 77.70)



QR-Code publication list  
(google.scholar).

## MAJOR PUBLICATIONS

1. **Bruno RR** et al. *The association of the Activities of Daily Living and the outcome of old intensive care patients suffering from COVID-19.* Ann Intensive Care 2022 Mar 18;12(1):26.
2. **Bruno RR** et al. *Lactate is associated with mortality in very old intensive care patients suffering from COVID-19: results from an international observational study of 2860 patients.* Ann Intensive Care. 2021 Aug 21;11(1):128.
3. **Bruno RR** et al. *The Clinical Frailty Scale for mortality prediction of old acutely admitted intensive care patients: a meta-analysis of individual patient-level data.* Ann Intensive Care. 2023 May 3;13(1):37.
4. **Bruno RR** et al. *ICU-Mortality in Old and Very Old Patients Suffering From Sepsis and Septic Shock.* Front Med (Lausanne). 2021 Jul 9; 8:697884.
5. **Bruno RR** et al. *Pharmacological treatment of cardiogenic shock - A state of the art review.* Pharmacol Ther. 2022 Dec; 240:108230.
6. **Bruno RR** et al. *Virtual reality assisted conscious sedation during transcatheter aortic valve implantation – a randomized pilot study.* EuroIntervention. 2020 Dec 18;16(12).
7. **Bruno RR** et al. *Virtual and augmented reality in critical care medicine: the patient's, clinician's, and researcher's perspective.* Crit Care. 2022 Oct 25;26(1):326.