

1 **Table 1: Participating sites and Principal Investigators**

City	Hospital	Investigators
GERMANY		
Münster	Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster, Münster, Germany.	Carola Wempe Michael Storck Tobias Brix Dana Meschede Christine Martin Wida Amini Christian Strauss
Münster	Department of Anesthesiology and Critical Care, St. Franziskus Hospital Münster, Münster, Germany.	Carina Stenger Matthias Gründel
Essen	Department of Anesthesiology and Intensive Care Medicine, University Hospital Essen,	Thorsten Brenner Marc Moritz Berger Julius Freytag

	University Duisburg-Essen, Essen, Germany.	Simon Dubler Jens Brands
Bochum	Department of Anesthesiology, Intensive Care Medicine and Pain Therapy, University Hospital Knappschaftskrankenhaus, Ruhr University Bochum, Bochum, Germany.	Hartmuth Nowak Lars Bergmann Matthias Unterberg Alexander Wolf Britta Marko
Düsseldorf	Department of Anesthesiology, University Hospital Düsseldorf, Heinrich-Heine-University Duesseldorf, Düsseldorf, Germany.	Detlef Kindgen-Milles Laura Huthmann Manon Schless Thomas Dimski Claude Pelletier
Cologne	Department of Anesthesiology and Intensive Care Medicine, Medical Faculty and University	Fabian Dusse Wolfgang A. Wetsch Sandra E. Stoll Hendrik Drinhaus

	Hospital Cologne, University of Cologne, Cologne, Germany.	Bernd W. Böttiger
Göttingen	Department of Anesthesiology, University Medical Center, Georg-August-University, Göttingen, Germany.	Onnen Mörer Lars-Olav Harnisch Roswitha Lubjuhn Daniel Heise
Bonn	Department of Anesthesiology and Intensive Care Medicine, University Hospital Bonn, Bonn, Germany.	Christian Putensen Christian Bode Jan Menzenbach
Tübingen	Department of Anesthesiology and Intensive Care Medicine, University Hospital Tübingen, Eberhard Karls University Tübingen, Tübingen, Germany.	Peter Rosenberger Helene Häberle Valbona Mirakaj Sabine Hermann Stefanie Decker

Heidelberg	Department of Anesthesiology, Heidelberg University Hospital, Heidelberg, Germany.	Markus A. Weigand Mona Jung-König Tobias Hölle Sarah Dehne
Heidelberg	Department of Nephrology, Heidelberg University Hospital, Heidelberg, Germany.	Christian Nussbag
Bayreuth	Department of Anaesthesiology and Intensive Care Medicine, Klinikum Bayreuth GmbH, Bayreuth, Germany	Jörg Reutershan Thomas Prüfer Stefan Pielmeier Indra Wimmelmeier
Dortmund	Department of Anesthesiology, Intensive Care and Pain Medicine, Klinikum Dortmund, Dortmund, Germany.	Michaela Scholz Andrea Paris Isabel Christina Gallego Zapata Holger Pohl Nirmeen Fayed

Marburg	Department of Anesthesiology and Intensive Care Medicine, Philipps-University, Marburg, Germany.	Marc Irsusi Kai Dielmann Evelyn Martin Tilo Koch
Augsburg	Department of Anesthesiology and Intensive Care Medicine, University Hospital Augsburg, Augsburg, Germany.	Philipp Simon Ulrich Jaschinski Alexander Mück Philipp Deetjen Ngoc Bich Mehlmann
Dresden	Department of Anesthesiology and Intensive Care Medicine, University Hospital "Carl Gustav Carus", Technische Universität Dresden, Dresden, Germany.	Peter M. Spieth Andreas Güldner Axel Rand Maximillian Ragaller Martin Mirus Rebecca Bockholt
Berlin	Department of Cardiac Anesthesiology and Intensive	Benjamin O'Brien Sascha Ott

	Care Medicine, Deutsches Herzzentrum der Charité, Berlin, Germany.	Marc Herzog Maren Kleine-Brüggeney Christian Stoppe
SWITZERLAND		
Lausanne	Adult Intensive Care Unit, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland.	Ant Isabelle Cristiani Céline Monard Marion Ohl Monica Vieira Da Silva Gilda Filipe de Castro Reblo
Zürich	Institute of Intensive Care Medicine, Universitätsspital Zürich, Zürich, Switzerland.	Matthias Hilty Katharina Spanaus
ITALY		
Florence	Department of Health Sciences, Section of Anesthesiology, Intensive Care and Pain Medicine, University of Florence;	Benedetta Mura Eleonora Terreni Francesco Magiotti Lorenzo Turi

	Department of Anesthesia and Intensive Care, Section of Oncological Anesthesia and Intensive care, Azienda Ospedaliero Universitaria Careggi, Florence, Italy.	Gabriele Baldini
Bologna	Postoperative and Abdominal Organ Transplant Intensive Care Unit, IRCCS Azienda Ospedaliero-Universitaria di Bologna, Italy.	Cristiana Laici
Bologna	Nephrology, Dialysis and Hypertension Unit, IRCCS Azienda Ospedaliero-Universitaria di Bologna, Italy.	Elena Mancini Davide Ricci
Bologna	Cardiothoracic and Vascular Anesthesia and Intensive Care	Chiara Capozzi Andrea Castelli

	Unit, IRCCS Azienda Ospedaliero-Universitaria di Bologna, Italy.	
Milan	Department of Anesthesiology and Intensive Care, IRCCS Humanitas Clinical and Research Hospital, Milan, Italy.	Massimiliano Greco Antonio Messina Maurizio Cecconi Gianluca Castellani Romina Aceto
Vincenza	Department of Anesthesiology and Intensive Care, San Bortolo Hospital, Vicenza, Italy.	Lucia Cattin Vinicio Danzi Alessandro Rigobello Massimo De Cal Monica Zanella
Ferrara	Department of Translational Medicine, Azienda Ospedaliera Universitaria di Ferrara,	Gaetano Scaramuzzo Riccardo La Rosa Paolo Piani Alberto Volta Carlo

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Milan	Cardiothoracic and Vascular Anesthesia, Ospedale San Raffaele, Milan, Italy.	Stefano Turi Giacomo Monti Giovanni Borghi Martina Baiardo Redaelli Marilena Marmiere
UNITED KINGDOM		
London	Department of Critical Care, King's College London, Guy's & St Thomas' Hospital, London, United Kingdom.	Kittisak Weerapolchai Shelley Lorah Fabiola D'Amato Aneta Bociek Rosario Lim Benjie Cendreda Reynaldo Dela Cuesta Eirini Kosifidou

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London	Division of Anaesthetics, Pain Medicine and Intensive Care, Department of Surgery and Cancer, Imperial College London, London, United Kingdom, Department of Anaesthesia and Critical Care, Harefield Hospital, Royal Brompton & Harefield Hospitals, Part of Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom.	Nandor Marczin

London	Department of Anesthesia and Critical Care, Harefield Hospital, Royal Brompton & Harefield Hospitals, Part of Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom.	Brijesh Patel Jackie Donovan Nicholas J Lees Marco Scaramuzzi Orinta Kviatkovske
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BELGIUM		
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NETHERLANDS		
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SPAIN		
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