

Contents

Welcome Addresses and Greetings

GANTEN, Detlev: Welcome (Chairman, Scientific Commission on Health at the Leopoldina)	11
SPIES, Claudia: Welcome (Chair of the Symposium)	13
KESECIOGLU, Jozef: Welcome Address (President-Elect, European Society of Intensive Care Medicine)	15
SCHWAB, Stefan, and WAYDHAS, Christian: Greeting (President and Speaker, German Interdisciplinary Association for Intensive Care and Emergency Medicine [DIVI])	17
ZWISSLER, Bernhard: Greeting (President, German Society of Anesthesiology and Intensive Care Medicine [DGAI])	19
ULLRICH, Lothar: Greeting (First Chairman, German Society of Specialist Nursing and Functional Services [DGF])	21
JONITZ, Günther: Greeting (President, Berlin Chamber of Physicians)	23
CZAJA, Mario: Greeting (Former Senator for Health and Social Affairs)	25

Current Perspectives and Future Innovations in Intensive Care Medicine

LACHMANN, Gunnar, WEISS, Björn, MÖRGELI, Rudolf, WOLF, Alissa, and SPIES, Claudia: The Evolution of Intensive Care Medicine: From Recumbency to Fully Functioning in Every Day Life	29
NIEHAUS, Jochen, and GANTEN, Detlev: Health and Critical Illness from a Global Perspective	33
DENKE, Claudia: Surviving Critical Illness: A Patient's Interview	39

Intensive Care 2017: A High Price for Everyone

BRUMMEL, Nathan: After Struggling with Death: What Price Does the Patient Pay for Survival?	47
WUNSCH, Hannah: What is PICS from a Public Health Point of View?	49
MÜLLER-WERDAN, Ursula: Regaining Strength after the ICU	51
FLAATTEN, Hans: Multisystem Organ Failure: Why Doctors Look at the Wrong Organs ...	53

Innovations and Basic Conditions

KESECIOGLU, Jozef: What's the Personal Price for Innovation? Looking Back on 10 Years of Enforcing and Managing a New ICU Concept	61
BUSSE, Reinhard: An Economic Analysis of Intensive Care and the Time After Survival: It May Not Be Cost-Effective to Save at the Wrong End	65
WILLEMEIT, Thomas: Designing a Healing Environment: What's Personal and Public Investment	69
CHICHE, Jean-Daniel: Life-Priority	75

Sleep Function and Dysfunction

LUETZ, Alawi: Prevention of Delirium by a Modification in ICU Environment	81
PISANI, Margaret: Delirium and Circadian Integrity	85
HATTA, Kotaro: Melatonin: Panacea or Futile Hope?	91
SHEHABI, Yahya: Evidence Gap to the Ideal Patient-Centered Care	95

Reduction of Stress

WEBER-CARSTENS, Steffen: Glucose Utilization and Critical Illness	103
SLOOTER, Arjen: EEG-Based Diagnostics of Delirium	107
ZEILHOFER, Hanns Ulrich: GABA _A Receptors: The Forgotten Target	109
HART, Nicholas: Reducing Stress, Increasing Strength: Early Mobilization and Impact on Long-Term Outcome	115

Surviving the Intensive Care Unit

WINTERER, Georg: Surgery Successful – But Patient Demented	123
SANDER, Michael: Perioperative Optimization and Postoperative Outcomes: From Alpha to Omega	127
GERRARD, Nicci: How to Improve Things: A Relative's Perspective	133

Innovations in Intensive Care Medicine, Perspectives from the Industry

RASPÉ, Christoph: Patient-Centered Innovation in Intensive Care Medicine – Hemodynamic Monitoring (Edwards Lifesciences Services GmbH)	137
FALCK, Thomas, EERDEN, Jacco, and MEEKES, Gaby: Patient-Centered Innovations for Intensive Care Medicine (Philips Healthcare)	143
KÖNIG, Alexander: Towards a Connected Intensive Care Unit (ReActive Robotics GmbH)	149

ZIVKOVIC, Aleksandar R., SCHMIDT, Karsten, and HOFER, Stefan: Point-of-Care Testing of the Serum Cholinesterase Activity. A Novel Early Indicator of the Systemic Inflammation or Yet Another Vague Sepsis Biomarker? (Dr. F. Köhler Chemie GmbH)	151
SCHEIER, Jörg: CytoSorb® to Counteract Excessive Hyperinflammation in Intensive Care Unit Patients (CytoSorbents Europe GmbH)	157

Strategies to Achieve Patient-Centered-Outcomes

SPIES, Claudia, LACHMANN, Gunnar, and SCHÄFER, Michael: Gaps and Evidence	163
---	-----

Scientific Symposium Abstract Winner

KELLER, Johannes, JESCHKE, Anke, SCHINKE, Thorsten, and AMLING, Michael: 1 st Prize: Protection from Septic Shock in Mice with Genetic Inactivation of Procalcitonin	171
GRUNOW, Julius, WOLLERSHEIM, Tobias, KNY, Melanie, CARBON, Niklas M., GIESECKE, Moritz, BIRCHMEIER, Carmen, FIELITZ, Jens, and WEBER-CARSTENS, Steffen: 2 nd Prize: Protocol Based Physiotherapy and Muscle Activating Measures Improve Skeletal Muscle Synthesis in Intensive Care Unit acquired Weakness	173
ZANDERS, Lukas, KNY, Melanie, McSHANE, Erik, LAHMANN, Ines, SELBACH, Matthias, BIRCHMEIER, Carmen, and FIELITZ, Jens: 3 rd Prize: Muscular Glycoprotein 130 Mediates Inflammation-Induced Muscle Atrophy in Mice	177