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Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

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<i>Stephen F. Lowry</i>	329	<u>Commentary</u> What's New in <i>Shock</i>, April 2011?
<hr/>		
<i>Monika Dzieciatkowska, Max V. Wohlauer, Ernest E. Moore, Sagar Damle, Erik Peltz, Jeffrey Campsen, Marguerite Kelher, Christopher Silliman, Anirban Banerjee, and Kirk C. Hansen</i>	331 SDC	<u>Clinical Aspects</u> Proteomic Analysis of Human Mesenteric Lymph Supplemental Digital Content is available in the text.
<i>Michael Adamzik, Tanja Langemeier, Ulrich H. Frey, Klaus Görlinger, Fuad Saner, Holger Eggebrecht, Jürgen Peters, and Matthias Hartmann</i>	339	Comparison of Thrombelastometry with Simplified Acute Physiology Score II and Sequential Organ Failure Assessment Scores for the Prediction of 30-Day Survival: A Cohort Study
<i>Ioanna Dimopoulou, Nikitas Nikitas, Stylianos E. Orfanos, Maria Theodorakopoulou, Dimitra Vassiliadi, Ioannis Ilias, Ignatios Ikonomidis, Eleni Boutati, Eirini Maratou, Iraklis Tsangaris, Georgia Karkouli, Eftichia Tsafou, Argyris Diamantakis, Petros Kopterides, Nikolaos Maniatis, Anastasia Kotanidou, Apostolos Armaganidis, and Urban Ungerstedt</i>	344	Kinetics of Adipose Tissue Microdialysis-Derived Metabolites in Critically Ill Septic Patients: Associations with Sepsis Severity and Clinical Outcome
<i>Naoki Aikawa, Shuji Shimazaki, Yasuhiro Yamamoto, Hidehiko Saito, Ikuro Maruyama, Ryuzo Ohno, Akio Hirayama, Yoshikazu Aoki, and Nobuo Aoki</i>	350	Thrombomodulin Alfa in the Treatment of Infectious Patients Complicated by Disseminated Intravascular Coagulation: Subanalysis from the Phase 3 Trial
<i>Nicole P. Juffermans, David J. Prins, Alexander P.J. Vlaar, Rienk Nieuwland, and Jan M. Binnekade</i>	356	Transfusion-Related Risk of Secondary Bacterial Infections in Sepsis Patients: A Retrospective Cohort Study
<i>Elizabeth Lea Walters, Kyle Morawski, Ihab Dorotta, Davinder Ramsingh, Kelly Lumen, David Bland, Kathleen Clem, and H. Bryant Nguyen</i>	361	Implementation of a Post-Cardiac Arrest Care Bundle Including Therapeutic Hypothermia and Hemodynamic Optimization in Comatose Patients with Return of Spontaneous Circulation After Out-of-Hospital Cardiac Arrest: A Feasibility Study
<hr/>		
<i>Patrick D. Solan, Giovanna Piraino, Paul W. Hake, Alvin Denenberg, Michael O'Connor, Alex Lentsch, and Basilia Zingarelli</i>	368	<u>Basic Science Aspects</u> Liver X Receptor α Activation with the Synthetic Ligand T0901317 Reduces Lung Injury and Inflammation After Hemorrhage and Resuscitation Via Inhibition of the Nuclear Factor κB Pathway
<i>Bertram Scheller, Gordon Pipa, Harry Kertscho, Patrick Lauscher, Joachim Ehrlich, Oliver Habler, Kai Zacharowski, and Jens Meier</i>	376	Low Hemoglobin Levels During Normovolemia are Associated with Electrocardiographic Changes in Pigs

<p>Bryan Belikoff, Stephen Hatfield, Michail Sitkovsky, and Daniel G. Remick</p>	383	<p>Adenosine Negative Feedback on A2A Adenosine Receptors Mediates Hyporesponsiveness in Chronically Septic Mice</p>
	SDC	Supplemental Digital Content is available in the text.
<p>Xinping Luo, Jianxin Deng, Na Liu, Cuicui Zhang, Qiaobing Huang, and Jie Liu</p>	389	<p>Cellular Mechanism Underlying Burn Serum-Generated Bidirectional Regulation of Excitation-Contraction Coupling in Isolated Rat Cardiomyocytes</p>
	SDC	Supplemental Digital Content is available in the text.
<p>Florian Wagner, Katja Wagner, Sandra Weber, Bettina Stahl, Markus W. Knöferl, Markus Huber-Lang, Daniel H. Seitz, Pierre Asfar, Enrico Calzia, Uwe Senfleben, Florian Gebhard, Michael Georgieff, Peter Radermacher, and Vladislava Hysa</p>	397	<p>Inflammatory Effects of Hypothermia and Inhaled H₂S During Resuscitated, Hyperdynamic Murine Septic Shock</p>
<p>Eva L. Murdoch, John Karavitis, Cory Deburghraeve, Luis Ramirez, and Elizabeth J. Kovacs</p>	404	<p>Prolonged Chemokine Expression and Excessive Neutrophil Infiltration in the Lungs of Burn-Injured Mice Exposed to Ethanol and Pulmonary Infection</p>
<p>Yong Qin, Lauriston M. Prescott, Edwin A. Deitch, and Vicki L. Kaiser</p>	412	<p>Heparin Use in a Rat Hemorrhagic Shock Model Induces Biologic Activity in Mesenteric Lymph Separate from Shock</p>
<p>Adrian Regli, Bart L. De Keulenaer, Lisen E. Hockings, Gabrielle C. Musk, Brigit Roberts, and Peter V. van Heerden</p>	423	<p>The Role of Femoral Venous Pressure and Femoral Venous Oxygen Saturation in the Setting of Intra-Abdominal Hypertension: A Pig Model</p>
<p>Tze-Fun Lee, Jiang-Qin Liu, Ying-Qian Li, Khalida Nasim, Todd Chaba, David L. Bigam, and Po-Yin Cheung</p>	429	<p>Improved Renal Recovery with Postresuscitation N-Acetylcysteine Treatment in Asphyxiated Newborn Pigs</p>
<hr/>		
		<u>Letters to the Editor</u>
<p>To the Editor: Mats Dahlqvist, Walter R. Hasibeder, and Martin W. Dünser</p>	435	<p>Hemodynamic and Perfusion End Points for Volemic Resuscitation in Sepsis</p>
<p>Reply: Fernando José da Silva Ramos and Luciano Cesar Pontes Azevedo</p>		
<hr/>		
		<u>Errata</u>
	360	<p>Acute Endotoxemia Inhibits Microvascular Nitric Oxide-Dependent Vasodilation in Humans: Erratum</p>
	367	<p>Nitric Oxide Donors in Sepsis: A Systematic Review of Clinical and In Vivo Preclinical Data: Erratum</p>

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COVER: Hemodilution levels (30%; blood volume that is replaced (EBV), 50%, 80% and 100%) compared to baseline measurements (0% EBV) visualized in a time-frequency representation of single-heartbeat ECGs. The x-axis is the time course of the single-beat ECG, the y axis represents the frequencies yielded by spectral deconvolution of the single-beat ECG signals. Row A shows a significant reduction in the amplitude (QRS complex and T wave) and the positions (T wave) of the corresponding structures of the ECG signals with progressive anemia. Row B: statistical fluctuations; Row C: normalization of the data in row A to the expected statistical effect calculated for row B. Row D references the regions of significant reduction in amplitude of the time-frequency plots back to two examples of single-beat ECG signals. See Scheller et al., pages 376–382, 2011.