

SHOCK®

Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches

OFFICIAL JOURNAL OF THE SHOCK SOCIETY, THE EUROPEAN SHOCK SOCIETY,
THE INDONESIAN SHOCK SOCIETY, THE INTERNATIONAL FEDERATION OF SHOCK
SOCIETIES, AND THE OFFICIAL AND INTERNATIONAL JOURNAL OF THE JAPAN
SHOCK SOCIETY

Volume 29, No. 3

March 2008

		<i>Commentary</i>
<i>Christoph Thiernemann</i>	311	What's New in <i>Shock</i>, March 2008?
<hr/>		
		<i>Review Article</i>
<i>Hironori Tsujimoto, Satoshi Ono, Philip A. Efron, Philip O. Scumpia, Lyle L. Moldawer, and Hidetaka Mochizuki</i>	315	Role of Toll-Like Receptors in the Development of Sepsis
<hr/>		
		<i>Clinical Aspects</i>
<i>Chien-Chang Lee, Shey-Ying Chen, Chu-Lin Tsai, Shwu-Chong Wu, Wen-Chu Chiang, Jiun-Ling Wang, Hsin-Yun Sun, Shyr-Chyr Chen, Wen-Jone Chen, and Po-Ren Hsueh</i>	322	Prognostic Value of Mortality in Emergency Department Sepsis Score, Procalcitonin, and C-Reactive Protein in Patients with Sepsis at the Emergency Department
<i>Jason Phua, Evelyn S.C. Koay, and Kang Hoe Lee</i>	328	Lactate, Procalcitonin, and Amino-Terminal Pro-B-Type Natriuretic Peptide Versus Cytokine Measurements and Clinical Severity Scores for Prognostication in Septic Shock
<i>Arvin C. Gee, Rebecca S. Sawai, Jerome Differding, Patrick Muller, Samantha Underwood, and Martin A. Schreiber</i>	334	The Influence of Sex Hormones on Coagulation and Inflammation in the Trauma Patient
<i>Antonio Carlos Nogueira, Victor Kawabata, Paolo Biselli, Marcelo Henrique Lins, Carla Valeri, Mauricio Seckler, Wagner Hoshino, Luiz Gonzaga Júnior, Marcia Martins Silveira Bernik, Juliana B. de Andrade Machado, Marina Baquerizo Martinez, Paulo Andrade Lotufo, Elia Garcia Caldini, Edgair Martins, Rui Curi, and Francisco Garcia Soriano</i>	342	Changes in Plasma Free Fatty Acid Levels in Septic Patients are Associated with Cardiac Damage and Reduction in Heart Rate Variability
<i>Jerome W. Breslin, Mack H. Wu, Mingzhang Guo, Rashell Reynoso, and Sarah Y. Yuan</i>	349	Toll-Like Receptor 4 Contributes to Microvascular Inflammation and Barrier Dysfunction in Thermal Injury
<i>Robert A. Cox, Ron P. Mlcak, David L. Chinkes, Sam Jacob, Perenlei Enkhbaatar, Jesse Jaso, Lauren P. Parish, Daniel L. Traber, Marc G. Jeschke, David N. Herndon, and Hal K. Hawkins</i>	356	Upper Airway Mucus Deposition in Lung Tissue of Burn Trauma Victims
<hr/>		
		<i>Basic Science Aspects</i>
<i>Salvatore Cuzzocrea, Tiziana Genovese, Emanuela Mazzon, Emanuela Esposito, Rosanna Di Paola, Carmelo Muià, Concetta Crisafulli, Angelo Peli, Placido Bramanti, and Irshad H. Chaudry</i>	362	Effect of 17β-Estradiol on Signal Transduction Pathways and Secondary Damage in Experimental Spinal Cord Trauma

<i>Xiaofa Qin, Francis J. Caputo, Da-Zhong Xu, and Edwin A. Deitch</i>	372	Hydrophobicity of Mucosal Surface and Its Relationship to Gut Barrier Function
<i>Xiaoling Li, Martin G. Schwacha, Irshad H. Chaudry, and Mashkoor A. Choudhry</i>	377	Acute Alcohol Intoxication Potentiates Neutrophil-Mediated Intestinal Tissue Damage After Burn Injury
<i>Sonja Bartolome, John G. Wood, Alfred J. Casillan, Steven Q. Simpson, and Amy R. O'Brien-Ladner</i>	384	Activated Protein C Attenuates Microvascular Injury During Systemic Hypoxia
<i>Oliver Murch, Maha Abdelrahman, Amar Kapoor, and Christoph Thiemermann</i>	388	Muramyl Dipeptide Enhances the Response to Endotoxin to Cause Multiple Organ Injury in the Anesthetized Rat
<i>Ju Mizuno, Juichiro Shimizu, Satoshi Mohri, Junichi Araki, Kazuo Hanaoka, and Yoshitsugu Yamada</i>	395	Hypovolemia Does Not Affect Speed of Isovolumic Left Ventricular Contraction and Relaxation in Excised Canine Heart
<i>Nicoletta Nitescu, Elisabeth Grimberg, Sven-Erik Ricksten, Hans Herlitz, and Gregor Guron</i>	402	Endothelin B Receptors Preserve Renal Blood Flow in a Normotensive Model of Endotoxin-Induced Acute Kidney Dysfunction
<i>Robert L. Conhaim, Karri A. Kluesner, Kal E. Watson, Alejandro Munoz-del-Rio, Dennis M. Heisey, and Bruce A. Harms</i>	410	Hemorrhage Progressively Disturbs Inter-alveolar Perfusion in the Lungs of Rats
<i>Johann K. Scicluna, Arnaud Mansart, Jonathan J. Ross, Charles S. Reilly, Nicola J. Brown, and Zoë L.S. Brookes</i>	417	Reduced Vascular Response to Phenylephrine During Exposure to Lipopolysaccharide <i>In Vitro</i> Involves Nitric Oxide and Endothelin 1
<i>Letter to the Editor</i>		
<i>To the Editor: Lucas T. van Eijk, Mirrin J. Dorresteijn, and Peter Pickkers</i>	422	Gender Influences <i>In Vivo</i> Human Responses to Endotoxin
<i>Reply: Susette M. Coyle, Steve E. Calvano, and Stephen F. Lowry</i>		
<i>Book Reviews</i>		
<i>Eugene A. Davidson</i>	424	Cardiovascular Proteomics: Methods and Protocols
<i>Bruce A. Fenderson</i>	424	Principles of Developmental Genetics
<i>Eugene A. Davidson</i>	425	Immunoinformatics: Predicting Immunogenicity <i>In Silico</i>
<i>Marc N. Saad</i>	425	Heparin-Induced Thrombocytopenia, 4th Edition

SHOCK® is abstracted and/or indexed in *Index Medicus*, MEDLINE, Current Contents®/Life Sciences, Science Citation Index®, SciSearch®, Research Alert®, the Biochemistry & Biophysics Citation Index™, and Reference Update Current Impact Factor 3.318

COVER: Immunohistochemical expression of Bax and Bcl-2. No positive staining for Bax was observed in the tissue section from sham mice (A). Spinal cord injury (SCI) caused an increase in the release of Bax expression at 24 h (B). Treatment with estrogen (E2) significantly inhibited the SCI-induced increase in Bax expression (C). Although positive staining for Bcl-2 was observed in the spinal cord tissue of sham mice (E), significantly less staining for Bcl-2 was observed at 24 h after SCI (F). E2 treatment significantly prevents the loss of Bcl-2 expression induced by SCI (G). Co-administration of ICI 182,780 and E2 significantly blocked the salutary effects of E2 on Bax (D) and Bcl-2 (H). Figure is representative of at least three experiments performed on different experimental days. GM = gray matter; WM = white matter. See Cuzzocrea et al., pages 362–371, 2008.