Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches


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Commentary

What's New in Shock, January 2008?

Clinical Aspects

The Impact of Arterial Oxygen Tension on Venous Oxygen Saturation in Circulatory Failure

IL-19 is Involved in the Pathogenesis of Endotoxic Shock

Basic Science Aspects

Liver Response to Hemorrhagic Shock and Subsequent Resuscitation: MRI Analysis

The Role of C5a in the Innate Immune Response After Experimental Blunt Chest Trauma

TNF-α Blockage in a Mouse Model of SCI: Evidence for Improved Outcome

Post-Treatment with the Novel Deltorphin E, A δ-1-Opioid Receptor Agonist, Increases Recovery and Survival After Severe Hemorrhagic Shock in Behaving Rats

Human Umbilical Cord Blood-Derived CD34+ Cells May Attenuate Spinal Cord Injury by Stimulating Vascular Endothelial and Neurotrophic Factors

CD4+ T-Cell Depletion is Not Associated with Alterations in Survival, Bacterial Clearance, and Inflammation After Cecal Ligation and Puncture

Mechanisms of Rho Kinase Regulation of Vascular Reactivity Following Hemorrhagic Shock in Rats

Employing Dobutamine as a Useful Agent to Reverse the Terlipressin-Linked Impairments in Cardiopulmonary Hemodynamics and Global Oxygen Transport in Healthy and Endotoxemic Sheep

Resistance of the Female, as Opposed to the Male, Intestine to I/R-Mediated Injury is Associated with Increased Resistance to Gut-Induced Distant Organ Injury

Treatment with H2S-Releasing Diclofenac Protects Mice Against Acute Pancreatitis-Associated Lung Injury

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Effects of Thalidomide in a Mouse Model of Cerulein-Induced Acute Pancreatitis

Evaluation of Intestinal Preconditioning in a Porcine Model Using Classic Ischemic Preconditioning or Lung Recruitment Maneuvers

A Mathematical Simulation of the Inflammatory Response to Anthrax Infection

Melatonin Pretreatment Improves Liver Function and Hepatic Perfusion After Hemorrhagic Shock

Hypothermia During Endotoxemic Shock in Female Mice Lacking Inducible Nitric Oxide Synthase

The Absence of Circadian Cues During Recovery from Sepsis Modifies Pituitary-Adrenocortical Function and Impairs Survival

Immunoglobulin M–Enriched Human Intravenous Immunoglobulins Reduce Leukocyte-Endothelial Cell Interactions and Attenuate Microvascular Perfusion Failure in Normotensive Endotoxemia

Calreticulin Downregulation is Associated with FGF-2-Induced Angiogenesis Through Calcineurin Pathway in Ischemic Myocardium

Molecular Genetics of Bacteria, 3rd Edition

Manual of Environmental Microbiology, 3rd Edition

Antimicrobial Pharmacodynamics in Theory and Clinical Practice, 2nd Edition

Sepsis: New Insights, New Therapies

Liver functional magnetic-resonance imaging (fMRI). Magnetic resonance imaging experiments were performed on a 4.7-T Bruker Biospec spectrometer using a birdcage coil. Changes in hepatic perfusion were evaluated from T2*-weighted GE images (TR/TE, 147/10 ms) acquired during breathing of air, air-carbon dioxide (5% carbon dioxide), and carbogen (95% oxygen-5% carbon dioxide). Four images were acquired from each gas mixture. Maps of mean SI values for each pixel during the different inhaled gases (S\text{air}, S\text{CO}_2, and S\text{O}_2) were calculated from four repeats for each gas. The percentage of change of fMRI signal induced by hypercapnia ($\Delta S\text{CO}_2$) and hyperoxia ($\Delta S\text{O}_2$) was calculated using the indicated equations. $\Delta S$ is represented by colors as indicated in the color bar. See Matot et al., pages 16–24, 2008.