

PAPERS READ BEFORE THE NINTH ANNUAL MEETING OF THE SURGICAL INFECTION SOCIETY, DENVER, COLO, APRIL 13 TO APRIL 14, 1989—PART II**Microbial Infection and the Septic Response in Critical Surgical Illness:****Sepsis, Not Infection, Determines Outcome 17**

John Marshall, MD, FRCSC, Diane Sweeney, RN, Halifax, Canada

- The magnitude of the host septic response is an important determinant of outcome in critical illness independent of the presence of bacteriology or infection control.

Decreased Tumor Necrosis Factor Production During the Initial Stages of Infection Correlates With Survival During Murine Gram-negative Sepsis 24

Jaime L. Mayoral, MD; Cyril J. Schweich; David L. Dunn, MD, PhD, Minneapolis, Minn

- Agents that inhibit bacterial replication may neutralize lipopolysaccharide and enhance survival; survival is correlated with a reduction in tumor necrosis factor during the early stages of infections.

Elevated Tumor Necrosis Factor_α Production Concomitant to Elevated Prostaglandin E₂ Production by Trauma Patients' Monocytes 29

Thomas K. Takayama, MD; Carol Miller, PhD; Gyongyi Szabo, MD, Worcester, Mass

- Massively elevated monocyte tumor necrosis factor and prostaglandin E₂ levels occurred simultaneously in septic patients.

Kupffer Cell Blockade Increases Mortality During Intra-abdominal Sepsis Despite Improving Systemic Immunity 36

Mark P. Callery, MD; Takafumi Kamei, MD; M. Wayne Flye, MD, PhD, St Louis, Mo

- Despite apparent improvement in systemic immunity by Kupffer cell blockade during intra-abdominal sepsis, the resulting impairment in functional phagocytic integrity predisposes to a higher mortality.

Are the Catabolic Effects of Tumor Necrosis Factor Mediated by Glucocorticoids? 42

Kenneth Mealy, FRCSI; Joseph J. B. van Lanschot, MD; Bruce G. Robinson, MD;

Jan Rounds; Douglas W. Wilmore, MD, Boston, Mass

- The pituitary-adrenal axis mediates part of the effects of this potent cytokine.

Anergic Patients Before Elective Surgery Have Enhanced Nonspecific Host-Defense Capacity 49

Jose M. Tellado, MD; Betty Giannias; Bomi Kapadia; Louise Chartrand, RN;

Mary de Santis, RN; Nicolas V. Christou, MD, PhD, Montreal, Canada

- Although anergic, these patients had increased neutrophil activity when compared to nonanergic patients.

Accelerated Lung Amino Acid Release in Hyperdynamic Septic Surgical Patients 57

Donald A. Plumley, MD; Wiley W. Souba, MD, ScD; R. Dean Hautamaki, MD;

Tomas D. Martin, MD; Timothy C. Flynn, MD; W. Robert Rout, MD;

Edward M. Copeland III, MD, Gainesville, Fla

- The lung may be a key regulator in interorgan nitrogen flux following major injury and infection.

Superoxide Production by Wound Neutrophils: Evidence for Increased Activity of the NADPH Oxidase 65

Philip B. Paty, MD; Ronald W. Graeff, MS; Stephen J. Mathes, MD;

Thomas K. Hunt, MD, San Francisco, Calif

- Increased oxygen radical production by wound neutrophils is associated with rising cytochrome b levels.

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Alfred Ayala, PhD; Michelle M. Perrin; Margaret A. Wagner; Irshad H. Chaudry, PhD, East Lansing, Mich	
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