

SURGICAL INFECTION SOCIETY 24th ANNUAL MEETING INDIANAPOLIS, IN, APRIL 29 - MAY1, 2004.

Preliminary Program

THURSDAY, April 29, 2004

0630-745 AM, Sunrise Symposium

SURVIVING SEPSIS: AN EVIDENCE-BASED APPROACH IN SURGICAL PATIENTS

Room 132

Early recognition and aggressive management of severe sepsis and septic shock: adopting a new scoring system? John C. Marshall

Clinical experience with activated Protein C in surgical patients: Philip S. Barie

Application of evidence in the treatment of patients with severe sepsis: Ronald V. Maier

0800-1100 AM, Plenary Session

CLINICAL THERAPEUTICS AND OUTCOME-1

Moderators: Michael A. West, M.D., Ph.D. and Pamela A. Lipsett, M.D.

Auditorium

1. The Effect Of Antipyretic Therapy Upon Outcomes In Critically Ill Patients: A Randomized, Prospective Clinical Trial.
CI Schulman, University of Miami
Discussant: Donald E. Fry
2. Can We Define The Ideal Duration Of Antibiotic Therapy?
DP Raymond, University of Virginia
Discussant: E. Patchen Dellinger
3. Can The Clinical Pulmonary Infection Score Impact ICU Antibiotic Days?
SM Swoboda, Johns Hopkins University
Discussant: Martin A. Croce
4. Predictors Of Outcome For Children With Perforated Appendicitis Initially Treated Non-Operatively
EP Nadler, Children's Hospital of Pittsburgh
Discussant: Walter J. Chwals
5. Altered LPS Signalling In Triple SRC Knock-Out Mice Following Oxidant Stress
RG Khandaroo, University of Toronto
Discussant: Charles Cook
6. Injection Of Trauma - Hemorrhagic Shock Mesenteric Lymph Into Normal Rats Recreates Lung Injury And Reduces Red Blood Cell Deformability.
M Senthil, UMDNJ-Newark
Discussant: Ronald V. Maier
7. Recapture Of Favorable Infection Rates With Reintroduction Of Quarterly Two-Drug Antibiotic Rotation Against Gram-Negative Organisms.
ST McElearney, University of Virginia
Discussant: Nicholas Namias
8. Phosphatidylinositol-3 Kinase (PI3k) Delays Neutrophil (PMN) Apoptosis Through Dynamic Interactions With The Sh2-Containing Tyrosine Phosphatase-1 (Shp-1)
S Jia, University of Toronto
Discussant: David B. Hoyt

1100 AM-1200 PM

POSTER SESSION: BASIC SCIENCE (Poster #1-7)
Moderators: Edwin A. Deitch, M.D. and Jan K. Horn, M.D.
Rooms 134/137/Reading Room

- P1. Design Of A Second-Generation Novel Endotoxin Antagonist
Wasiluk KR, University Of Minnesota
- P2. Dectin-1 Expression Is Decreased In Glucan Treated Septic Mice.
Ozment-Skelton TR,
- P3. Pancreatic Duct Ligation Reduces Gut Permeability Following Trauma/Hemorrhagic Shock.
Rupani BJ, UMD-New Jersey
- P4. Immunomodulatory DNA Sequences Enhance Neutrophil Activation In The LPS-Stimulated Human Whole Blood Model
Smith RI, University Of Virginia
- P5. Protein Kinase C Mediates Biphasic Hypoxic Pulmonary Vasoconstriction
Tsai BM, Indiana University
- P6. Mitochondrial Membrane Stabilization Attenuates Peroxynitrite-Induced Enterocyte Apoptosis
Kelly N, University Of Pittsburgh
- P7. A Novel Model Of Cholangitis Results In Neutrophil Recruitment By MIP-2
Jeyarajah D, Southwestern Medical School

1200-1300 PM

LUNCHEON

1300 PM-1600 PM

Parallel Session: BASIC SCIENCE (#9-17)
Moderators: Alfred Ayala, Ph.D, and Ronald V. Maier, M.D.
Auditorium

- 9. Susceptibility of TLR4 deficient mice to gram-negative sepsis is attenuated by a TLR2 agonist – bacterial lipoprotein.
GC O'Brien, Cork, Ireland
Discussant: James A. Lederer
- 10. Opiate Analgesics Contribute To The Development Of Immune Dysfunction In A Murine Model Of Thermal Injury
M Alexander, University of Alabama-Birmingham
Discussant: David Greenhalgh
- 11. Endotoxin Tolerance Attenuates LPS-Induced TLR4 Mobilization To Lipid Rafts: A Condition Reversed By PKC Activation
J Cushcieri, University of Cincinnati
Discussant: David J. Hackam
- 12. Injury-Induced Phenotypic Changes In Dendritic Cells
S Fujimi, Brigham and Women's Hospital-Harvard Medical School
Discussant: Marc G. Clemens
- 13. A Novel Approach To Downregulate Inflammatory Cytokines In Polymicrobial Sepsis: The Role Of Ghrelin
R Wu, North Shore-Long Island Jewish Medical Center
Discussant: Eugen H. Faist
- 14. Oxidant Stress Induces SRC Kinase Dependent Upregulation Of Surface Toll Like Receptor 4 (Tlr4) Expression On RAW 264.7 Macrophages
K Powers, University of Toronto
Discussant: Timothy R. Billiar

15. Localization Of Transcriptional Regulatory Elements Unresponsive To LPS Within The Murine TLR4 Promoter
Oxidant Stress Induces SRC Kinase Dependent Upregulation Of Surface Toll Like Receptor 4 (TLR4) Expression
On RAW 264.7 Macrophages
K Wasiluk, University of Minnesota
Discussant: David A. Geller
16. Bacterial Adherence To Intestinal Tissue May Be Modulated By Neurochemicals Commonly Contained In Foods
M Lyte, Hennepin County Medical Center
Discussant: David J. Hackam
17. Chronic Acid Water Feeding Induces Systemic Heat Shock Proteins And Protects Against Pseudomonas Sepsis
LR Wu, University of Chicago
Discussant: W. Scott Helton

1300 PM-1600 PM

PARALLEL SESSION: CLINICAL TRIALS, CASE SERIES AND OUTCOMES (#18-25)

Moderators: Robert G. Sawyer, M.D. and Pamela A. Lipsett, M.D.

Room 132

18. The Impact Of Opiate Analgesics On The Development Of Post-Burn Infectious Complications
MG Schawacha, University of Alabama-Birmingham
Discussant: David Herndon
19. Influence Of Antibiotic Therapy On Mortality Of Critical Surgical Illness Caused Or Complicated By Infection
P Barie, New York Presbyterian Hospital-Weill Medical College Of Cornell
Discussant: Tiffany K. Bee
20. Sex Hormones And Infectious Outcomes In Surgical Patients
HL Evans, University of Virginia
Discussant: Alicia M. Mohr
21. Cost-Benefits In Burn Wound Care: Sulfamylon Versus Silver Nitrate
JM Espana, Shriners Burns Hospital for Children
Discussant: Ronald G. Tompkins
22. Cost Estimation Of An Episode Of Ventilator-Associated Pneumonia (VAP) In A Shock Trauma ICU (STIC)
CS Cocanour, University of Texas- Houston
Discussant: Mark A. Malingoni
23. Lipopolysaccharide-Binding Protein (LBP) Concentrations In Trauma Victims
S Cunningham, University of Maryland
Discussant: Carol Miller-Graziano
24. Influence Of Enteral And Parenteral Nutrition On Splanchnic Hemodynamics In Septic Patients.
M. Rammohan, University of Connecticut
Discussant: Randall S. Friese
25. Emerging Infections With Community-Acquired Methicillin Resistant Staphylococcus Aureus At An Army
Community Hospital
GJ Beilamn, University of Minnesota
Discussant: Charles J. Yowler

1600-1700 PM

POSTER SESSION #2: Clinical Trials, Case Studies and Outcomes (Posters #8-19)

- P8. An Open-Label, Randomized Study Comparing Efficacy And Safety Of IV Piperacillin / Tazobactam (P/T) And Ampicillin/ Sulbactam (A/S) For Infected Diabetic Foot Ulcers
Harkless L, Wyeth Pharmaceuticals
- P9. Efficacy Of Daptomycin In The Treatment Of Wound Infections And Abscesses
Tally FP, Fission Communications
- P10. Is There A Role For Quinolones In Antibiotic Rotation Strategy In Neurosurgical ICU Patients? A Comparison Of Pseudomonal Resistance And Methicillin Resistant Staph Aureus Incidence With The Use Of Aminoglycosides

Versus Quinolones.

Habib FA, University of Miami

P11. Can Grand Rounds Educate And Change Behavior About Surgical Antibiotic Prophylaxis?
Swoboda SM, Johns Hopkins University

P12. Impact Of Diabetes In Patients With Necrotizing Soft Tissue Infections
Kao LS, University Of Texas-Houston

P13. Primary Rigid Sternal Fixation Prevents Post-Sternotomy Mediastinitis
Song DH, University Of Chicago

P14. Observation Of The Incidence And Spectrum of Bacterial Pathogens in Urinary Tract Infections in Renal Transplant Recipients
Kwok M, Kaleida Health System

P15. Two Third-Year Medical Student-Level Laboratory Shock Exercises Without Large Animals
Koniaris LG, University Of Miami

P16. Abdominal Complications Of Ventricular Assist Device Placement
Costantini TW, University Of Minnesota

P17. Pharmacokinetics Of Single Dose Intravenous Ciprofloxacin (Cpfx) Into Blood And Ascites And Cytokines In Serum And Ascites In Response To The Therapy By Cpfx In Patients With Pelvic Peritonitis
Mikamo H, Gifu University School Of Medicine

P18. Increased Tyrosine Phosphorylation Of Band 3 In Erythrocytes From Septic Mouse
MR Condon, VA New Jersey

P19. Intraaortic Balloon Pump Reduces Blood Lactate in Septic Shock
M Robinson, Texas Tech University

1700-1830 PM,

ANNUAL BUSINESS MEETING
Michael A. West, M.D. Ph.D., Presiding
Auditorium

1900-2200 PM,

RECEPTION
NCAA HALL OF CHAMPIONS

FRIDAY, APRIL 30, 2004

0630-745 AM, Sunrise Symposium

***Staphylococcus aureus*: Implications for management and prevention of SSI and bacteremia**
Room 132

SSI: the role and risk factors for MRSA/MSSA

E. Patchen Dellinger

Current management options for prevention and treatment of SSI due to *S. aureus*

Donald E. Fry

Bacteremia with MRSA/MSSA; Implications and treatment

Lena M. Napolitano

0800-1100 AM, Parallel Session

Basic Science II (Papers #26 - 33)
Co-Chairs: Ori D. Rotstein, M.D. and Lyle L. Moldower, Ph.D.

26. HMGB-1, The Principal Mediator Of Late Mortality In Sepsis Is Downregulated In BLP Tolerized THP-1 Cells
JC Coffey, Cork University, Ireland
Discussant: Ping Wang

27. Hepatocytes Enhance Cytokine Production Of Stimulated Liver Nonparenchymal Cells Through Direct Cell Contact
S. Liu, University of Pittsburgh
Discussant: Wayne M. Flye
28. The Potential Role Of Transcription Factor Aryl Hydrocarbon Receptor (AHR) In Downregulation Of Hepatic Cytochrome P450 (CYP) In Polymicrobial Sepsis
M Zhou, North Shore-Long Island Jewish Medical Center
Discussant: Edwin A. Deitch
29. Interleukin 10 Suppresses Natural Killer Cell But Not Natural Killer T Cell Activation In Bacterial Infection
MJ Scott, University of Louisville
Discussant: Krzysztof Laudanski
30. Phagocytosis and Intracellular Survival Of E. Coli By Enterocytes Is Mediated Via TLR4: Implications For Bacterial Translocation
MD Neal, Children's Hospital of Pittsburgh
Discussant: Carol L. Wells
31. An Adenosine A2a Receptor Analog Reduces Gut And Lung Injury In Trauma Hemorrhagic Shock (T/Hs)
JH Jabush, UMDNJ-New Jersey Medical School
Discussant: Jeffery Upperman
32. Attenuation Of TNF-Alpha Production By Immunotolerance, But Not Thermotolerance, Is Associated With Survival Benefit In Septic Mice
IM Brennan, Cork University, Ireland
Discussant: Henri R. Ford
33. Peptidoglycan And Lipoteichoic Acid Induce Endotoxin Tolerance In Macrophages From Endotoxin Resistant Mice
W Heagy, Northwestern University
Discussant: Alfred Ayala

0800-1100 AM, Parallel Session

Clinical Trials, Case Series, and Outcomes II (Papers #34-39)

Co-Chairs: William F. Fallon, M.D. and Pamela A. Lipsett

34. Creation Of Clinical Research Databases In The 21st Century: A Practical Algorithm For HIPAA Compliance
SR Schell, University of Florida
Discussant: Philip S. Barie
35. Kinetic Therapy Beds Are Associated With Increased Complications In Spinal Column Injured Patients
JG Chipman, University of Minnesota
Discussant: James T. Lee
36. Sternal Salvage with Quantitative Bacteriology and Rigid Plate Fixation In Postoperative Mediastinitis: An 11-Year Experience
DH Song, Univeristy of Chicago
Discussant: James T. Lee
37. Bacterial Translocation Is Not A Clinically Relevant Phenomenon In Colorectal Cancer
Y Takesue, Hiroshima University, Tokyo, Japan
Discussant: Addison K. May
38. Aerosolized Tobramycin in the Treatment of Ventilator Associated Pneumonia: A Pilot Study.
A Hallal, University of Miami
Discussant: Eileen M. Bulger
39. Predictors Of Mortality For Necrotizing Soft Tissue Infection
D Anaya, University of Washington
Discussant: John Davis

1100 AM-1200 PM, Plenary Session

SIS FELLOWSHIP AWARDS/ALTEMEIER LECTURE

1100-1115 AM **Presentation of SIS Fellowship Awards**
Jureta W. Horton, MD: University of Texas Southwestern

1130 AM-1230 PM **Altemeier Lecture:**
Ronald W. Davis, Ph.D.
Director, Stanford Genome Technology Center

1230-1330 PM **LUNCHEON**

1330-1430 PM:
PRESIDENTIAL ADDRESS: "Oh Lord! I've Got Those Clinical Research Blues"
Philip S. Barie, M.D., MBA, FACS, FCCM

1430-1530 PM: Poster Session III: (Posters # 20 - 25)
BASIC SCIENCE II
Ping Wang, PhD. and Ori D. Rotstein, MD

P20. Paradoxical Il-10 Production By LPS-Stimulated N-3 Fatty Acid And Selective Cox-2 Inhibitor Treated Macrophages Is Associated With Divergent p38 Activation
T Babcock, University of Illinois-Chicago

P21. Burn Trauma Complicated By Infection In Adult Mice Exacerbates Myocardial Inflammation Seen In Burn Alone
D Maass, University of Texas Southwestern-Dallas

P22. Mitochondrial Damage and Depletion In The Liver During Polymicrobial Sepsis
ED Crouser, Ohio State

P23. Liver Dysfunction and Histopathological Changes in Acute Endotoxemia: Reversal By Phosphodiesterase Inhibition.
R Coimbra, University of California-San Diego

P24. Development Of A Murine Model Of Localized Aspergillosis
SR Carr, Thomas Jefferson University

P25. Tolerance To Lipopolysaccharide In Enterocytes: Two Levels Of Negative Regulation Of The P38 Map Kinase
AV Grishin, Children's Hospital of Pittsburgh

1530-1700 PM:
CLINICAL SYMPOSIUM
Auditorium

Emerging Pathogens- New, Old, and Sometimes Forgotten Pathogens

Co-Chairs: Martin A. Croce and John E. Mazuski

1. Transmitting and acquiring viral infections: Who gets these and what should be done?

2. Its not just *Candida albicans* anymore

3. SARS: Up Close and Personal

Daniel Jernigan, MD
Robert G. Sawyer, MD
Lorraine Tremblay, MD

1900-2000 PM:

RECEPTION
BALLROOM FOYER

2000-2200 PM:

AWARDS DINNER
BALLROOM

SATURDAY, MAY 1, 2004

0630-745 AM

SUNRISE SYMPOSIUM: Controversies in Managing Serious SICU Infections

Room 132

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|---|----------------------|
| Managing Nosocomial Pneumonia in the SICU. | Martin A. Croce, MD. |
| How Can The New Rules Succeed in Managing Intra-abdominal Sepsis? | Avery B. Nathens, MD |
| Antibiotic Resistance in the SICU: What Direction Is It Headed? | Robert G. Sawyer, MD |

0800-0945 AM,

Clinical Symposium

ANTIMICROBIAL-IMPREGNATED DEVICES: PRICEY, PANACEA, OR PLACEBO?

Moderator: Avery B. Nathens, M.D.

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| 1. Antimicrobial and antiseptic-impregnated devices: rationale and resistance | Rabih O. Darouiche, M.D |
| 2. Cost and efficacy of antimicrobial and antiseptic venous catheters | Avery B. Nathens, MD |
| 3. Reducing the burden of nosocomial urinary tract infections using antimicrobial-impregnated urethral catheters | Sanjay Saint, MD, MPH |
| 4. Antimicrobial-impregnated devices in the operating room: from drapes to joints | Nicholas Namias, MD |

0945-1200 PM

PLENARY SESSION #2 (Papers #40-47)

Moderator: William G. Cheadle, MD

40. Trauma Alters Heat Shock Protein-27 Activation Of P38 In Human Neutrophils
RC Minielly, University of Rochester
Discussant: Jeffery L. Johnson
41. Epinephrine-Mediated Suppression Of Inflammatory Signalling Is Mediated Via PKA-Independent Pathways
K Staudenmayer, University of Washington
Discussant: John Alverdy
42. Differential Toll-Like Receptor-4 Expression After Lipopolysaccharide Exposure In Patients With Septic And Nonseptic Surgical Stress
H Tsujimoto, University of Florida
Discussant: Jacob Wang
43. Adrenergic Modulation Of Erythropoiesis In Severely Injured Patients Is Mediated Through Bone Marrow Stroma
RB Fonseca, UMNDJ-New Jersey
Discussant: Cora K. Ogle
44. Injury Drives Antigen Presenting Cell Dependent Th2-Type Cd4+ T-Cell Reactivity.
Y Zang, Brigham and Women's Hospital-Harvard Medical School
Discussant: J. Wesley Alexander
45. Sepsis Induced Changes In Macrophage Co-Stimulatory Molecule Expression: Cd86 As A Regulator Of Anti-Inflammatory Il-10 Response.
SM Newton, Brown University
Discussant: Lyle L. Moldower
46. LPS Hypersensitivity In The Liver Results In Increased Activation Of The NF-KappaB Pathway But Independent On TLR4 Levels
L Romics, Cork University, Ireland
Discussant: Michael A. West
47. CD14, But Not LBP Modulates Hepatocyte Responses To LPS
JE Mazuski, Washington University
Discussant: Jan K. Horn