

**SURGICAL INFECTION SOCIETY
27TH ANNUAL MEETING
TORONTO, CANADA
APRIL 18 – APRIL 20, 2007**

Wednesday, April 18, 2007

08:00-12:00 PM Council Meeting

08:00-12:00 PM Surgical Infections Symposium: Annual Update

HARBOUR C

Moderator

Avery Nathens, MD, PhD, FACS, St. Michael's Hospital, University of Toronto, Toronto, Ontario

- 08:00 Introduction; goals and learning objectives (Avery Nathens)
08:15 – 08:45 Controversies in the management of diverticulitis (Stanley Feinberg)
08:45 – 09:15 Controversies in the management of appendicitis (Lillian Kao)
09:15 – 09:45 Necrotizing soft tissue infections (Joseph Cuschieri)
09:45 – 10:00 BREAK
10:00 – 10:30 C. difficile-associated disease (CDAD): Emerging Issues (Jacques Pepin)
10:30 – 11:00 Fungal infections for the surgeon (Gregory Beilman)
11:00 – 11:30 Surgical Site Infections and SCIP (Surgical Care Improvement Project) (Donald Fry)

12:00-13:30 PM LUNCHEON SYMPOSIUM

PIER 4 & 5

13:30-16:00 AM PLENARY SESSION 1

HARBOUR A & B

The Science of Surgical Infections (Papers 1-8)

Moderators

John C. Marshall, MD, St Michael's Hospital, University of Toronto, Toronto, Ontario, Canada
Alfred Ayala, PhD, Rhode Island Hospital, Brown University, Providence, RI

1. Novel PSTS-Mediated Appendages on Multi-Drug Resistant Pseudomonas Aeruginosa Confer Enhanced Virulence Against the Intestinal Epithelium
Zaborina O, Long J, Chen Y, Wang Y, Turner JR, Alverdy JC; University of Chicago, Chicago, IL
Discussant: Henri R. Ford
2. Serum Estradiol as a Predictor of Mortality in Critically Ill and Injured Adults
Dosssett L, Sawyer R, May A; Vanderbilt University Medical Center, Nashville, TN
Discussant: William G. Cioffi
3. In Vivo siRNA-Mediated CD14 Gene Silencing Attenuates Injury-Induced Immune System Responses
McKenna A, Delisle A, Stallwood C, Fujimi S, MacConmara M, Mannick J, Lederer J; Brigham and Women's Hospital, Harvard Medical School, Boston, MA
Discussant: Timothy Billiar
4. Prophylactic Antibiotic Use in Multi-Trauma Patients with Extremity Fractures Does Not Lead to an Increased Incidence of Remote-Site Infections but May Lead to Subsequent Antimicrobial Resistance
O'Neill PJ, Mathieson K, May AK; Maricopa Medical Center, Phoenix, AZ

Discussant: Charles Adams

5. Neutrophil Function and Recruitment is Mediated by the Early Actions of Gamma Delta T Cells During Sepsis Such That Mortality and Bacterial Load is Decreased

Tschoep J, Martignoni A, Reid M, Choi L, Goetzmann H, Caldwell CC; University of Cincinnati, Cincinnati, OH
Discussant: John C. Marshall

6. Snapshot of Surgical Infections Currently Known, The SOSICK Study

Namias N, Meizoso J, Livingston DH, Investigators Group A; Miller School of Medicine, University of Miami, Miami, FL

Discussant: Lena M. Napolitano

7. CD40 Expression is Required for Platelets to Promote Survival of Mice After Burn Injury

Lapchak PH, Fujimi S, MacConmara MP, McKenna A, Delisle A, Mannick JA, Lederer JA; Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Discussant: Basil Pruitt

8. Acellular Dermal Matrix (AlloDerm) Compared to Synthetic Implant Material for Ventral Hernia Repair in the Setting of Peri-Operative Bacterial Contamination of Implant: A Rabbit Model

Milburn M, Silverman R, Holton, III LH, Chung T, Bochicchio G, Li E, Goldberg N; University of Maryland Medical Center, Baltimore, MD

Discussant: Brian Zuckerbraun

16:00-16:30 PM FELLOWSHIP AWARDS PRESENTATIONS

HARBOUR A & B

Introduction by Ping Wang, MD, Feinstein Medical Research Institute, North Shore University Hospitals & Long Island Jewish Medical Center, Long Island, NY

16:30-17:30 PM ALTEMEIER LECTURE

HARBOUR A & B

Genetic analysis of mammalian innate immunity: Toll-like receptors and other components of the resistome

Bruce Beutler, MD, The Scripps Research Institute, La Jolla, CA

Introduction by Timothy R. Billiar, MD, FACS, University of Pittsburgh, Pittsburgh, PA

19:00-22:00 PM RECEPTION

GARDINER MUSEUM

THURSDAY, April 19, 2007

06:30-07:45 AM SUNRISE SYMPOSIUM

HARBOUR C

Contemporary Approaches to Managing Complex Infections

(Supported by an unrestricted educational grant from Schering-Plough)

Moderator Donald Fry, MD

1. Surgical Issues in Abdominal Sepsis
2. Issues regarding Antibiotic Use in Abdominal Sepsis
3. Clostridium Difficile in Healthcare Settings

Lena M. Napolitano, MD, Ann Arbor, MI
Robert Sawyer, MD, Charlottesville, VA
Robert Owens, PharmD, Portland, Maine

08:00-11:00 AM PARALLEL SESSION

HARBOUR A & B - Grand Ballroom C

Basic Science III (Papers 9-18)

Moderators

Edwin A. Deitch, MD, FACS University Medical & Dental School of New Jersey, New Jersey Medical School, Newark, NJ

William G. Cioffi, MD, FACS, Rhode Island Hospital, Brown University, Providence, RI

9. Infectious Risk From Functional TLR4 Mutation Exceeds That of Hyperglycemia in SICU Patients

Jan BU, Coyle SM, Macor M, Calvano JE, Alvarez SM, Calvano SE, Lowry SF; Robert Wood Johnson Medical School, New Brunswick, NJ

Discussant: David Herndon

10. Trafficking and Compartmentalization of Integrins and Oxidase Components in a Model of Neutrophil Priming and Subsequent Destination-Based Activation

Robinson C, Cave C, Lentsch A, Solomkin J; University of Cincinnati College of Medicine, Cincinnati, OH

Discussant: Ori Rotstein

11. IL-10 Reduces Survival in a Novel Murine Model of Chronic Peritonitis

Lenz AM, Franklin GA, Peyton JC, Gardner SA, Cheadle WG; University of Louisville and VA Medical Center, Louisville, KY

Discussant: Dan Meldrum

12. Activated Neutrophils (PMN) Induce Lung Epithelial Cell Apoptosis by Oxidant-Induced Dephosphorylation of Caspase-8

Jia SH, Parodo J, Kapus A, Rotstein OD, Marshall JC; St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

Discussant: Joseph Solomkin

13. CpG Treatment After Injury Improves Survival by Controlling Treg Activity

MacConmara MP, Fujimi S, McKenna A, Lapchak PH, Delisle A, Stallwood C, Mannick JA, Lederer JA; Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Discussant: Kenneth Kudsk

14. Persistent Elevation of HIF-1 After Gut Ischemia Reperfusion Injury is Deleterious and Contributes to the Development of Distant Organ Damage

Feinman R, Watkins AC, Abungu B, Caputo FJ, Lu Q, Barlos D, Colorado I, Xu D, Semenza GL, Deitch EA; University Medical & Dental School of New Jersey, New Jersey Medical School, Newark, NJ

Discussant: Ping Wang

15. Deficiency of Fer Kinase Inhibits LPS Induced Liver Injury and TNF- α Production

Birch SE, Weizel E, Tawadros PS, Szaszi K, Kapus A, Rotstein OD; St Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

Discussant: Michael A. West

16. Depletion of Phosphate in Growth Media Shifts the Virulence of Pseudomonas Aeruginosa to That of a Lethal Strain in the Nematode Caenorhabditis Elegans

Zaborin AV, Long J, Fernandez H, Zaborina O, Alverdy JC; University of Chicago, Chicago, IL

Discussant: Edwin Deitch

17. Pro-Inflammatory Cytokines From Kupffer Cells Downregulate Adrenomedullin Binding Protein-1 (AMBP-1) in Sepsis

Jacob A, Zhou M, Wu R, Halpern VJ, Ravikumar TS, Wang P; North Shore University Hospital & Long Island Jewish Medical Center, Long Island, NY

Discussant: William Cioffi

18. Parental Nutrition Impairs a Tumor Necrosis Factor Alpha Mediated IgA Response to Injury

Sano Y, Hermsen JL, Gomez FE, Maeshima Y, Kang W, Kudsk KA; University of Wisconsin, Madison, WI

Discussant: James Lederer

08:00-11:00 AM PARALLEL SESSION

HARBOUR C Room: Grand Ballroom DE

Clinical Trials, Case Series & Outcomes IV (Papers 19-28)

Moderators

Philip Barie, MD, FACS, Weill Medical College of Cornell University, New York, NY

Pamela Lipsett, MD, FACS, Johns Hopkins University School of Medicine, Baltimore, MD

19. ...It's Not Just Heterogeneity

Swenson BR, Hedrick TL, McElearney SK, Smith RL, Evans H, Sawyer RG; University of Virginia Health System, Charlottesville, VA

Discussant: Philip Barie

20. VAP Reporting Based on CDC NNIS Criteria for PNEUMONIA-2: Flawed?

Hayanga A, Issa N, Zalewski C, Napolitano L; University of Michigan, Ann Arbor, MI

Discussant: Pamela Lipsett

21. Efficacy of Therapy With Drotrecogin ALFA (Activated) For Surgical Patients With Septic Shock

Barie PS, Hydo LJ, Shou J, Eachempati SR; Weill Medical College of Cornell University, New York, NY

Discussant: Timothy Pruett

22. Propranolol Attenuates Factors Affecting Hypermetabolism in Pediatric Burn Patients

Norbury WB, Herndon DN, Branski LK, Jeschke MG; Shriner's Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX

Discussant: Steven Lowry

23. Factors Associated With Ventilator-Associated Pneumonia Recurrence in the Surgical Intensive Care Unit
Lu EJ, Butler KL, Tsuei BJ, Johannigman JA, Solomkin JS; University of Cincinnati Medical Center, Cincinnati, OH
Discussant: Robert Sawyer

24. Impact of Antimicrobial Restriction on Gram-negative Bacterial Resistance
Issa N, Brunsvold M, Newton D, Napolitano L; University of Michigan, Ann Arbor, MI
Discussant: Donald Fry

25. Reduced Rates of Surgical Site Infection With the Use of Continuous Incisional Infusions of Local Anesthetics With ON-QPainBuster: A Meta-Analysis of Clinical Studies
Johnson S, Saint John B, Dunn JB, Dine AP; I-Flow Corporation, Lake Forest, CA
Discussant: Mark Malangoni

26. Glucose Variability in the First Week After Injury Does Not Predict Mortality
Pidcock HF, Wanek SM, Wang J, Holcomb JB, Wolf SE, Wade CE, Rohleder LS; University of Texas, Health Science Center, San Antonio, TX
Discussant: Jay Yelon

27. Strict Glycemic Control Following Injury: How Strict Do We Really Need To Be?
Sperry JL, Frankel HL, Nathens AB, O'Keefe GE, Cuschieri J, Maier RV, Moore EE, Minei JP; University of Texas, Southwestern Medical Center, Dallas, TX
Discussant: E. Patchen Dellinger

28. Impact of ICP Monitor Prophylaxis on CNS Infections and Multi-drug Resistance
Stoikes NF, Magnotti LJ, Hodges TM, Weinberg JA, Schroepel TJ, Savage SA, Croce MA, Fabian TC; University of Tennessee Health Science Center, Memphis, TN
Discussant: Avery Nathens

11:00-12:00 PM PRESIDENTIAL ADDRESS

HARBOUR A & B Grand Ballroom C

Coming of Age

John C. Marshall, MD, FACS, St Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

Introduction by Timothy R. Billiar, MD, FACS, University of Pittsburgh, Pittsburgh, PA

12:00-1:00 PM LUNCHEON SYMPOSIUM

PIER 4 & 5

Can We Further Decrease SSI after Colorectal Surgery?

(Supported by an unrestricted educational grant from Merck & Co., Inc.)

Moderator Kamal Itani, MD

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| 1. Bowel Prep or Not? | Kamal Itani, MD, VA Boston Healthcare, Boston, MA |
| 2. The Role of Oral Antibiotics | Eric Sam Wilson, MD, University of California, Irvine, CA |
| 3. Prophylactic Systemic Antibiotics: Which One? | Samir S. Awad, MD, Baylor, Houston, TX |

13:30-15:00 PM CLINICAL SYMPOSIUM I

HARBOUR A & B

Prebiotic and Probiotic approaches to control the intestinal microflora and contain inflammation

Moderators

John Alverdy, MD, University of Chicago, Chicago, IL

Olga Zaborina, PhD, University of Chicago, Chicago, IL

How the intestinal microflora contribute to both the health and inflammatory potential of the intestinal epithelium
Eugene B. Chang, MD, University of Chicago, Chicago, IL

The infinite things we can learn by genomic interrogation of the intestinal microbiome
H. Rex Gaskins PhD, University of Illinois, Urbana, IL

15:00-17:00 PM POSTER SESSION #1

PIER 2 & 3

Moderators

Peter Lapchak, PhD (Posters P1-7)

Lynn Hydo, RN, MBA (Posters P8-13)

Charles Adams, MD (Posters P14-19)

Brian S. Zuckerbraun, MD (Posters P20-26)

P1. Small Intestinal Submucosa as a Vascular Conduit Degrades in a Dose-Dependent Fashion in the Presence of Collagenase-Producing Organisms

Edwards NM, Claridge JA, Weinberg JA, Fabian TC, Croce MA; University of Tennessee Health Science Center, Memphis, TN

P2. Phosphodiesterase Inhibition Attenuates Lung Injury in Experimental Acute Pancreatitis

de Campos T, Deree J, Martins JO, Shenvi E, Loomis WH, Putnam J, Coimbra R; University of California at San Diego, San Diego, CA

P3. Interactions Between Extracellular Pre-B Cell Colony-Enhancing Factor (PBEF) and Insulin in Neutrophil Functional Survival

Malam Z, Parodo J, Kapus A, Rotstein O, Ali R, Jia S, Marshall J; St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

P4. Enterobacter sakazakii induces experimental necrotizing enterocolitis in neonatal rats by adhering to intestinal epithelial cells

Hunter CJ, Singamesetty VK, Ford HR, Upperman JS, Prasadarao NV; Saban Research Institute, University of Southern California, Los Angeles, CA

P5. Nitric Oxide Synthase Inhibition in an Ovine Model of Methicilin Resistant Staphylococcus aureus (MRSA) Sepsis

Jonkam CC, Enkhbaatar P, Esechie A, Saunders F, Traber L, Herndon D, Traber D; Shriner's Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX

P6. Changes in HNF4 alpha Binding Activity Precede the Induction and Resolution of the Liver's Acute Phase Response

Bauza G, Kaseje N, D'Addese L, Wang Z, Thomas P, Forse A, Burke PA; Boston University School of Medicine, Boston, MA

P7. Cellular Reprogramming with Bacterial Lipoprotein is Independent of ST2

Buckley J, Wang J, Redmond H; Cork University Hospital, Cork, Ireland

P8. Trauma Hemorrhagic Shock-Induced Apoptosis Follows Different Pathways Depending on the Targeted Cell Type

Barlos D, Watkins AC, Abungu B, Lu Q, Caputo FJ, Xu DZ, Feinman R, Deitch EA; University Medical & Dental School of New Jersey, New Jersey Medical School, Newark, NJ

P9. Adrenomedullin (AM) and Adrenomedullin Binding Protein-1 (AMBP-1) Improve Gut Hyperpermeability and Attenuate Organ Injury During the Progression of Polymicrobial Sepsis

- Higuchi S, Wu R, Dong W, Ji Y, Yang D, Zhou M, Marini C, Ravikumar TS, Wang P*; North Shore University Hospital & Long Island Jewish Medical Center, Long Island, NY
- P10. Tumor Necrosis Factor-Alpha Disrupts Intercellular Junctions in Proximal Tubule Epithelium: Role of the Rho Kinase-Phospho-Myosin Pathway
Kakiashvili E, Szaszi K; St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada
- P11. Prompt Reversal of Parental Nutrition-Induced Reduction of Hepatic Mononuclear Cell Number After Enteral Refeeding
Omata J, Fukatsu K, Moriya T, Maeshima Y, Okamoto K, Saitoh D, Mochizuki H; Department of Surgery, National Defense Medical College, Saitama, Japan
- P12. Glucocorticoid Receptor Transactivation Domain Polymorphisms Alter the In Vitro Activity of Glucocorticoids
Yee KS, Phan H, Green T, Cho K, Greenhalgh D; Shriner's Hospital for Children, University of California at Davis, Sacramento, CA
- P13. Sepsis Alters the Serum Clearance and Tissue Distribution of Apolipoprotein E
Kasravi FB, Elford E, Kattan O, Harris H; University of California at San Francisco, San Francisco, CA
- P14. Lipopolysaccharide challenge induces unresponsive state in enterocytes
Wang J, Upperman JS, Ford HR, Grishin AV; Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA
- P15. Septic Challenge Decreases DNA Content in Cardiac Mitochondria
Zang QS, Maass D, Horton J; University of Texas, Southwestern Medical School, Dallas, TX
- P16. Differential Inflammatory Response to Treatment of MRSA Soft Tissue Infection
Wasiluk KR, Mulier KE, George ME, Banton KL, Greg BJ, Scribner DM, Chipman JG; University of Minnesota, Minneapolis, MN
- P17. A Preoperative Verification of Timely Antimicrobial Administration Does Not Improve Compliance With Prophylaxis Guidelines
Nemeth TA, Beilman GJ, Hamlin C, Chipman JG; University of Minnesota, Minneapolis, MN
- P18. Dissociation Between Macrophage Altered MAPK Signaling and Cytokine Production in LPS- or PDG-Tolerance
Koons A, West M; Northwestern University, Evanston, IL
- P19. Morbidity and Mortality of Skin and Skin Structure Infections with Associated Bloodstream Infection
Evans HL, Swenson BR, Hedrick T, McElearney ST, Smith RL, Popovsky KA, Sawyer RG, Pruett TL; University of Virginia Health System, Charlottesville, VA
- P20. Impact of Nutrition on the Incidence of Infection and Sepsis in Severely Burned Pediatric Patients
Jesdke MG, Hawkins HK, Herndon DN; Shriner's Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX
- P21. Mesenteric Lymph Duct Ligation Attenuates Lung Injury in Endotoxemic Rats
Caputo FJ, Watkins AC, Barlos D, Badami C, Xu D, Lu Q, Feketeova E, Deitch EA; University Medical & Dental School of New Jersey, New Jersey Medical School, Newark, NJ
- P22. The Prevalence of Surgical Site Infection by the Introduction of the Best Practice in the Perioperative Management and Operative Manipulation; Multi-Center Prospective Study of 1,601 Colorectal Patients
Takesue Y; Hyogo College of Medicine, Hyogo, Japan
- P23. Deferoxamine Stimulates Fetal Human Intestinal Cell Production of IGF-1 and GM-CSF: The Roles of p38, ERK, and JNK Intracellular Signaling

Markel T, Crisostomo P, Lahm T, Wang M, Herring C, Meldrum D; Indiana University School of Medicine, Indianapolis, IN

P24. Proteolytic Inhibitors Reduced IL-8 Production in Cytokine-Stimulated SW480 Cells

Wang Q, Pritts TA, Ogle C; Shriners' Burn Hospital for Children, University of Cincinnati, Cincinnati, OH

P25. Does Activated Protein C Alter the Subsequent Immune Response?

Bonatti H, Spears C, Swenson BR, Popovsky K, Sawyer R, Pruett T; University of Virginia Health System, Charlottesville, VA

P26. Acute Appendicitis: Length of Stay is Determined by Case Time of Day

Crandall M, Shapiro MB, Worley M, West MA; Northwestern University, Evanston, IL

17:00-18:30 PM ANNUAL BUSINESS MEETING

HARBOUR A & B

Timothy R. Billiar, MD, Presiding

19:00-20:00 PM RECEPTION

HARBOUR FOYER

20:00-22:00 PM AWARDS BANQUET

PIER 4 & 5

FRIDAY, APRIL 20, 2007

06:30-07:45 AM SUNRISE SYMPOSIUM

HARBOUR C

Multi-drug-resistant Organisms (MDROs): Impact in Healthcare-Associated Infections

(Supported by an unrestricted educational grant from Wyeth Pharmaceuticals)

Moderator Philip Barie, MD

1. VRE: Risk factors, surveillance, infections and outcome
2. MRSA: Risk factors, surveillance, infections and outcome
3. Antibiotic therapy for MDRO Infections: Which ones?

John Mazuski, MD, St. Louis, MO
Greg Beilman, MD, Minneapolis, MN
Philip Barie, MD, New York, NY

08:00-09:30 AM CLINICAL THERAPEUTICS SYMPOSIUM II

HARBOUR A & B

Unique Therapeutic Perspectives Surgical Infection

Moderators

Jeffery S. Upperman, MD, FACS, University of Southern California, Los Angeles, CA
Eileen Bulger, MD, FACS, University of Washington, Seattle, WA

The Potential of Stem Cells in the Treatment of the Critically Ill / Septic Patient

Daniel R. Meldrum, MD, FACS, Indiana University School of Medicine, Indianapolis, IN

Followed by

Pro/ Con debate: Glycemic control compared to standard care to reduce the risk of surgical infection in abdominal surgery patients

PRO: Tight Glycemic control reduces complications

Jay A. Yelon, DO, FACS, New York Medical College, Valhalla, NY

CON: Glycemic control increases risk for only a modest benefit

Charles A. Adams, MD, FACS, Rhode Island Hospital, Brown University, Providence, RI

09:30 AM-11:30 PM POSTER SESSION #2

PIER 2 & 3

Moderators

Marc Jeschke, MD (Posters P27-33)

Sandra M Swoboda, RN, MS (Posters P34-41)

Soumitra Eachempati, MD (Posters P42-49)

Joseph Cureshi, MD (Posters P50-56)

P27. Phosphoinositide 3-Kinase Inhibition Negatively Regulates Both TLR2- and TLR4-Mediated Pro-Inflammatory Responses in Murine Peritoneal Macrophages

McSwiney EA, Wang J, Redmond H; University College Cork, Cork, Ireland

P28. Does Stress Induced Insulin Resistance and Hyperglycemia Lead to Chronic Glucose Intolerance in Severely Burned Pediatric Patients

Gaughitz GG, Herndon DN, Kulp G, Finnerty CC, Jeschke MG; Shriners' Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX

P29. Serum Cytokine Profiles are Different in Severely Burned Pediatric Patients With Inhalation Injuries Who Survive Versus Those Who Die

Finnerty CC, Herndon DN, Jeschke MG; Shriners' Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX

P30. Is Colistin a Safe Treatment for Multidrug-resistant Organisms in Severely Pediatric Burn Patients?

Sanford AP, Yang C, Jeschke MG, Herndon DN; Shriners' Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX

P31. Antimicrobial Impregnated Surgical Incise Drapes in the Prevention of Mesh Infection Following Ventral Hernia Repair

Swenson BR, Camp TR, Mulloy DP, Sawyer RG; University of Virginia Health System, Charlottesville, VA

P32. Pressure Ulcer in Surgical Intensive Care Unit

Ahmed N, Loughrey C, Berkowitz M, Kuo Y; Jersey Shore University Medical Center, Neptune, NJ

P33. Comparison of Pathophysiological Responses to Gram-Positive and – Negative Infections in Ovine Sepsis Model

Enkhbaatar P, Jonkam C, Traber L, Wang J, Saunders F, Cox R, Schmalstieg F, Herndon D, Traber D; Shriners' Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX

P34. Outcome in Necrotizing Fasciitis

Gunter OL, Guillaumondegui O, May A, Diaz J; Vanderbilt University, Nashville, TN

P35. Cholecystectomy on Index Admission for Gallstone Pancreatitis: Fact or Fiction in an Irish Teaching Hospital?

O'Mahony D, Coveney A, O'Neill C, Shields C, Osborne H, Broe P, Hill A; Beaumont Hospital; Dublin, Ireland

P36. Hepatic Immune Response During Polymicrobial Sepsis: Do NK-T-cells Play a Role?

Hu C, Wang YL, Rhee RJ, Horner BJ, Huang X, Chung C, Ayala A; Rhode Island Hospital, Brown University, Providence, RI

P37. Antimicrobial Susceptibility of *E. coli* Isolated From Intra-abdominal Infection (IAI) Sites in the United States: Results from Study for Monitoring Antimicrobial Resistance Trends (SMART) 2002-2005

Bodichio GV, Gallagher G, Abramson MA; The R Adams Cowley Shock Trauma Center, Division of Clinical and Outcomes Research, University of Maryland School of Medicine and Merck & Co., Inc., Baltimore, MD

P38. Evaluation of *Clostridium Difficile* Colitis in Critically Injured Trauma Patients: Does the Degree of Antibiotic Exposure Matter?

Lumpkins K, Bochicchio G, Joshi M, Bochicchio K, Pyle A, Schaub S, Scalea T; University of Maryland, Baltimore, MD

P39. Antibiotic Prophylaxis in Severe Acute Pancreatitis: Experimental Evaluation of Ertapenem Efficacy

Catena F, Gazzotti F, Gagliardi S, Ansaloni L, Di Saverio S, Amaduzzi A, Pinna A; St. Orsola Malpighi University Hospital, Bologna, Italy

P40. Daptomycin Outcomes in the Treatment of Surgical Site Infections

Lamp KC, Martone WJ; Cubist Pharmaceuticals, Lexington, MA

P41. The Use of Hypertonic Saline in Sequential Major Back Surgeries

Swoboda S, Lipsett P; Johns Hopkins School of Medicine, Baltimore, MD

P42. Antimicrobial Susceptibility of *Klebsiella* species Isolated From Intra-abdominal Infection (IAI) Sites in the

United States: Results from Study for Monitoring Antimicrobial Resistance Trends (SMART) 2002-2005

Bochicchio GV, Gallagher G, Abramson MA; The R Adams Cowley Shock Trauma Center, Division of Clinical and Outcomes Research, University of Maryland School of Medicine and Merck & Co., Inc., Baltimore, MD

P.43 Clostridium Difficile Colitis in Adults and Children: A Surgical Perspective

Sandoval JA, Denbo JW, Rosenman MB, Falimirski ME, Wiebke EA, Rescorla FJ, Lillemoe KD; Indiana University School of Medicine, Indianapolis, IN

P44. Combat Casualties and Civilian Patients Autopsy Results between 2003 and 2005 from One Burn Center

Gomez R, Kim S, Holcomb J, Wolf S; Institute of Surgical Research Burn Center, Brooke Army Medical Institute, Fort Sam Houston, TX

P45. Mucosal Atrophy in Distal Site of Stoma is a Risk Factor of Infectious Complication

Okamoto K, Fukatsu K, Hashiguchi Y, Ueno H, Ueno C, Maeshima Y, Ikezawa F, Omata J, Saitou T, Mochizuki H; National Defense Medical College, Saitama, Japan

P46. TLR4-Dependent Uptake of LPS by Liver Cells is Dependent on Activation of Small G-Protein, RhoA

Scott MJ, Liao H, Billiar TR; University of Pittsburgh, Pittsburgh, PA

P47. Nor-Epinephrine Mediates Normal Erythropoiesis In Vivo

Penn A, Mohr AM, Shah SG, Wilkens ME, Bonilla LM, Sifri ZC, Livingston DH; University Medical & Dental School of New Jersey, New Jersey Medical School, Newark, NJ

P48. Efficacy of Daptomycin in Chronic Periprosthetic Joint Infections

Radhakrishna SM, Rothbart RK, McPherson E; Keck School of Medicine, Los Angeles, CA

P49. The Influence of Non-Intensive Care Management and Fluid Prescription on Post-Operative Morbidity in Esophagectomy

Quinn M, Shields C, Barreiro C, Broe P; Beaumont Hospital; Dublin, Ireland

P50. Group Milleri Streptococci - Relevant Pathogens in Pediatric Surgical Patients

Stelzmueller I, Berger NR, Wiesmayr S, Eller M, Bonatti H; University of Virginia Health System, Charlottesville, VA

P51. Effect of Ciprofloxacin-Induced Prostaglandin E2 on Interleukin-18-Treated Monocytes

Iwagaki H, Katsuno G, Takahashi HK, Saito S, Tanaka N; Bayer Yakuhin, Ltd., Japan

P52. Desulfovibrio Species Might be One of Contributing Factors for Pouchitis

Mikamo H, Tanaka K, Watanabe K; Life Science Research Center, Gifu University, Japan

P53. Multi-drug Resistant Acinetobacter: A Deadly Terrorist

Lee LF, Holtom PD, Belzberg H, Garner WL; University of Southern California, San Diego, CA

P54. Acalculus Cholecystitis Following Major Trauma

Ahmed N; Jersey Shore University Medical Center, Neptune, NJ

P55. Use of Continuous Infusion Oxacillin for the Treatment of Burn Wound Cellulitis

Schuster KM, Schulman CI, Pizano LR, Ward CG, Namias N; Yale University School of Medicine, New Haven, CT

P56. Diagnosis and Management of Intraabdominal Tuberculosis

Stelzmueller I, Lucciarini P, Rossi R, Weiss G; University of Virginia Health System, Charlottesville, VA

12:00-1:00 PM LUNCHEON SYMPOSIA

HARBOUR C

Fungal Infections: What's New?

(Supported by an unrestricted educational grant from Pfizer Inc.)

Moderator Pamela Lipsett, MD

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| 1. Fungal Infections: Advances in Diagnostics | Pamela Lipsett, MD, Baltimore, MD |
| 2. Newer Antifungal Agents: The Echinocandins | Gary Stein, PharmD, Lansing, MI |
| 3. Candidiasis in Non-neutropenic Patients: Update | Lena Napolitano, MD, Ann Arbor, MI |

13:00-14:30 PM CLINICAL SYMPOSIUM III: Epithelia In Organ Injury HARBOUR A & B

Moderators

Henri Ford, MD, FACS, Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA
David Hackam, MD, FACS, University of Pittsburgh, Pittsburgh, PA

The Stress Response and Epithelial Cells in Lung Injury

Jean-Francois Pittet, MD, University of California at San Francisco, San Francisco, CA

The Epithelium in NEC

David Hackam, MD, FACS, University of Pittsburgh, Pittsburgh, PA

Molecular Mechanisms of Epithelial Cell Dysfunction

Henri R. Ford, MD, FACS, Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA

14:30-17:00 PM PARALLEL SESSION: Basic Science (Papers 29-36) HARBOUR A & B

Moderators

Michael A. West, MD, PhD, FACS, Northwestern University School of Medicine, Chicago, IL
Ori Rotstein, MD, FACS, St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

29. Translational Control of Cytokines Modulates the Inflammatory Response

Schaeffer V, Cuschieri J, Garcia I, Knoll M, Bulger E, Maier R; Harborview Medical Center, Seattle, WA
Discussant: David Hackam

30. Co-segregation of the CD14 Locus and Polymorphic Glucocorticoid Receptor Allele on Chromosome 18 Into CD14 Knockout Mice

Cho K, Hsu K, Green T, Greenhalgh D; Shriner's Hospitals for Children and University of California, Davis, Sacramento, CA
Discussant: Jeffery Upperman

31. Parenteral Nutrition Induces Organ Specific Alterations in Polymeric Immunoglobulin Receptor Levels

Sano Y, Gomez FE, Hermsen JL, Kang W, Lan J, Maeshima Y, Kudsk KA; University of Wisconsin, Madison, WI
Discussant: Peter Lapchak

32. Endotoxin Exposure in the Macrophage: Analysis of Lipid Raft Proteomics

Cuschieri J, Petyuk VA, Bulger E, Schaeffer V, Camp DG, Smith RD, Maier RV; Harborview Medical Center, Seattle, WA
Discussant: Ori Rotstein

33. Overexpression of IRAK-1, But Not TLR2, Partly Reverses Bacterial Lipoprotein-Induced Tolerance

Li C, Wang J, Redmond H; University College Cork, Cork, Ireland
Discussant: Ronald V. Maier

34. MAPK Phosphatase-1 Regulates p38-Mediated Inflammatory Signaling in Enterocytes

Ford HR, Wang J, Boyle-Lockerbie P, Upperman JS, Grishin AV; Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA

Discussant: Melanie Scott

35. Human Mesenchymal Stem Cells Stimulated by TNF, LPS, or Hypoxia Produce VEGF by an NFκB and an ERK, but not JNK, Dependent Mechanism

Crisostomo P, Markel T, Wang M, Herring C, Meldrum D; Indiana University, Bloomington, IN

Discussant: Alicia Mohr

36. Oxidant-Induced TLR4 Translocation to the Cell Surface in Murine Macrophages May Involve Sphingolipid Metabolism Through the Acid Sphingomyelinase Pathway

Tawadros PS, Wang Z, Wang F, Birch S, Szaszi K, Kapus A, Rotstein OD; St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada

Discussant: Raul Coimbra

14:30-17:00 PM PARALLEL SESSION

HARBOUR C

Clinical Trials, Case Series & Outcomes (Papers 37-44)

Moderators

John E. Mazuski, MD, FACS, Washington University School of Medicine, St. Louis, MO

Patrick J. O'Neil, MD, PhD, FACS, Maricopa County Hospital, Phoenix, AZ

37. Longitudinal Assessment of Integra™ for Primary Burn Reconstruction: A Randomized Pediatric Clinical Trial

Branski LK, Jeschke MG, Pereira C, Sanford AP, Lee JO, Mlcak RP, Celis MM, Herndon DN; Shriners' Burn Hospital for Children, University of Texas Medical Branch, Galveston, TX

Discussant: Addison May

38. Fever and Leukocytosis in Critically Ill Trauma Patients: It's Not the Urine

Gobb JF, Sando MJ, Yowler CJ, Malangoni MA, Phipps WR, Claridge JA; MetroHealth Medical Center, Cleveland, OH

Discussant: William Cheadle

39. Catheter-Related Vs. Catheter-Associated Bloodstream Infections: Incidence and Microbiology

Sihler K, Zalewski C, Hyzy R, Arndt J, Chenoweth C, Napolitano L; University of Michigan, Ann Arbor, MI

Discussant: Soumitra Eachempati

40. Decreased MRSA Surgical Site Infection Rates Using Surveillance Cultures, Patient Cohorting, and Hand Hygiene

Wilson MA, Muder R, Squier C, Jain R; University of Pittsburgh, Pittsburgh, PA

Discussant: Kristen C. Sihler

41. Effect of Body Mass Index (BMI) and Type of Antibiotic Prophylaxis on Surgical Site Infection (SSI)

Itani KM, Jensen EH, Finn TS, Abramson MA; VA Boston Medical Center and Boston University School of Medicine and Merck & Co., Inc., Boston, MA

Discussant: Gregory Beilman

42. Higher Body Mass Index (BMI) Predicts Need For Insulin But Not Hyperglycemia Or Nosocomial Infection (NI) In Critically Ill Surgical Patients (CRISP)

Pieracci FM, Hydo LJ, Eachempati SR, Pomp A, Shou J, Barie PS; Weill Medical College of Cornell University, New York, NY

Discussant: Kamal M. Itani

43. Improved Survival in Febrile Surgical Patients with Pneumonia

Metzger R, Swenson BR, Hedrick T, McElearney S, Evans HL, Smith RL, Popovsky KA, Pruett T, Sawyer RG; University of Virginia Health System, Charlottesville, VA

Discussant: John A. Claridge

44. Collateral Damage: Carbapenem Resistance in Gram-negative Isolates in the ICU

Brunsvold ME, Sihler K, Newton D, Collins C, Pleva M, Issa N, Napolitano L; University of Michigan, Ann Arbor, MI

Discussant: John E. Mazuski