Section 1: Critical Care and Critical Illness

1. Has Evidence-Based Medicine Changed the Practice of Critical Care?
2. Do Protocols/Guidelines Actually Improve Outcomes?
3. What Happens to Critically Ill Patients After They Leave the ICU?
4. Can Post-ICU Syndrome (PICS) Be Prevented or Treated?
5. How Have Genomics Informed Our Understanding of Critical Illness?

Section 2: Basic Respiratory Management and Mechanical Ventilation

6. Is Oxygen Toxic?
7. What is the Role of Noninvasive Respiratory Support and High Flow Nasal Cannula in the Intensive Care Unit?
8. What Is the Role of PEEP and Recruitment Maneuvers in ARDS?
9. What Is the Best Way to Wean and Liberate Patients from Mechanical Ventilation?
10. How Does Mechanical Ventilation Damage Lungs? What Can Be Done to Prevent It?

Section 3: Non-ARDS and Non-Infectious Respiratory Disorders

11. How Should Exacerbations of COPD Be Managed in the Intensive Care Unit?
12. Is Diaphragmatic Dysfunction a Major Problem Following Mechanical Ventilation?

Section 4: ARDS

13. ARDS--Are the Current Definitions Useful?
14. What Are the Pathologic and Pathophysiologic Changes That Accompany ARDS?
15. What Factors Predispose Patients to Acute Respiratory Distress Syndrome?
16. What Is the Best Mechanical Ventilation Strategy in ARDS?
17. Is Carbon Dioxide Harmful or Helpful in ARDS?
18. Does Patient Positioning Make a Difference in ARDS?
19. Do Inhaled Vasodilators in ARDS Make a Difference?
20. Does ECMO Work?
21. What Lessons Have We Learned from Epidemiologic Studies of ARDS?
22. What Are the Long Term Outcomes After ARDS?

Section 5: General Critical Care Management

23. How Do I Approach Fever in ICU and Should Fever Be Treated?
24. What Fluids Should be Given to the Critically Ill Patient? What Fluids Should be Avoided?
25. Should Blood Glucose Be Tightly Controlled in the Intensive Care Unit?
26. Is There a Role for Therapeutic Hypothermia in Critical Care?
27. How Do I Manage the Morbidly Obese Critically Ill Patient?
28. How Do I Safely Transport the Critically Ill Patient?
29. What Are the Causes of, and How Do I Treat, Critical Illness Neuropathy/Myopathy?

Section 6: Sepsis

30. What is Sepsis?

31. How Do I Identify the Patient with “Sepsis”?
32. Is There Immune Suppression in the Critically Ill Patient – Pro?
33. Is There Immune Suppression in the Critically Ill Patient – Con?
34. Does the Timing of Antibiotic Administration Matter in Sepsis?
35. What Is the Role of Vasopressors and Inotropes in Septic Shock?
36. Does Monitoring the Microcirculation Make a Difference in Sepsis? Outcome?
37. Are We Getting Any Better at Diagnosing Sepsis?
38. Do the Surviving Sepsis Campaign Guidelines Work?
39. Has Outcome in Sepsis Improved? What Works? What Does Not?

Section 7: Persistent Critical Illness

40. What Happens to the Autonomic Nervous System in Critical Illness?
41. Is Persistent Critical Illness a Syndrome of Ongoing Inflammation/Immunosuppression/Catabolism?

Section 8: Infection

42. How Do I Optimize Antibiotic Use in Critical Illness?
43. How Do I Identify Pathologic Organisms in the 21st Century?
44. How Do I Diagnose and Manage Catheter-Related Bloodstream Infections?
45. How Do I Manage Central Nervous System Infections (Meningitis/Encephalitis)?
46. How Can Biomarkers Be Used to Differentiate Between Infection and Non-infectious Causes of Inflammation?
47. What is Ventilator-Associated Pneumonia? How Do I Diagnose It? How Do I Treat It?

Section 9: Hemodynamic Management

48. What Is the Role of Invasive Hemodynamic Monitoring in Critical Care?
49. Does the Use of Echocardiography Aid in the Management of the Critically Ill?
50. How Do I Manage Hemodynamic Decompensation in a Critically Ill Patient?
51. What are the Best Tools to Optimize the Circulation?
52. How Should Cardiogenic Shock Be Managed (Including Assist Devices)?

Section 10: Cardiovascular Critical Care

53. How Do I Manage Acute Heart Failure?
54. How Do I Diagnose and Manage Myocardial Ischemia in the ICU?
55. How Do I Prevent or Treat Atrial Fibrillation in Postoperative Critically Ill Patients?

Section 11: Kidney Injury & Critical Illness

56. How Do I Rapidly and Correctly Identify Acute Kidney Injury?
57. What Is the Role of Renal Replacement Therapy in the Intensive Care Unit?
58. What is the Value of Non Dialytic Therapy in Acute Kidney Injury?

Section 12: Metabolic Abnormalities in Critical Illness

59. How Should Acid-Base Disorders Be Diagnosed?
60. Is Hyperchloremia Harmful?
61. Dysnatremias--What Causes Them and How Should They Be Treated?
62. Why Is Lactate Important in Critical Care?
63. How Does Critical Illness Alter Metabolism?

Section 13: Neurological Critical Care

64. How Should Traumatic Brain Injury Be Managed?
65. How Should Aneurysmal Subarachnoid Hemorrhage Be Managed?
66. How Should Acute Ischemic Stroke Be Managed in the Intensive Care Unit?
67. How Should Status Epilepticus Be Managed?

Section 14: Nutrition, Gastrointestinal & Hepatic Critical Care

68. When and How Should I Feed the Critically Ill Patient?
69. What Does Critical Illness Do to the Liver?
70. How Do I Manage a Patient With Acute Liver Failure?

Section 15: Endocrine Critical Care

71. Is There a Place for Anabolic Hormones in Critical Care?
72. How Do I Diagnose and Manage Acute Endocrine Emergencies in the ICU?
73. What Is the Current Role for Corticosteroids in Critical Care?

Section 16: Trauma, Surgery, Obstetrics & Environmental Injuries

74. How Should Trauma Patients Be Managed in the Intensive Care Unit?
75. What Is Abdominal Compartment Syndrome and How Should It Be Managed?
76. How Should Patients with Burns Be Managed in the Intensive Care Unit?
77. What Is the Best Approach to Resuscitation in Trauma?
78. How Do I Diagnose and Treat Major Gastrointestinal Bleeding?
79. How Should the Critically Ill Pregnant Patient Be Managed?
80. How Do I Diagnose and Manage Patients Admitted to the ICU After Common Poisonings?

Section 17: Hematology Critical Care

81. When Is Transfusion Therapy Indicated in Critical Illness and When Is It Not?
82. Is There a Role for GM-CSF and/or Erythropoietin in Critical Illness?
83. What Anticoagulants Should be Used in the Critically Ill Patient? How Do I Choose?

Section 18: Critical Care Resource Use and Management

84. Is There a Better Way to Deliver Optimal Critical Care Services?
85. How Do Critical Care Pharmacists Contribute to Team Based Care?
86. What Is the Role of Advance Practice Nurses and Physician Assistants in the ICU?

Section 19: Patient Suffering and Other Ethical Issues

87. Do the Guidelines for Brain Death Determination Need to Be Revised?
88. How Do I Diagnose, Treat, and Reduce Delirium in the Intensive Care Unit?