
Contents

Sepsis and Inflammation

The Molecular Genetics of Sepsis: Clinical Epidemiology Considerations	3
<i>(RS Wax and DC Angus)</i>	
The Role of Interleukin (IL)-12 and IL-18 During Endotoxemia and Bacterial Infection	18
<i>(FN Lauw, SJH van Deventer, and T van der Poll)</i>	
The Apoptotic Response of the Lymphoid Immune System to Trauma, Shock, and Sepsis	27
<i>(C-S Chung, IH Chaudry, and A Ayala)</i>	
Modulation of Neutrophil Function in Sepsis	41
<i>(W Karzai and K Reinhart)</i>	
Trauma-Induced Immunosuppression: Pathogenesis and Treatment	51
<i>(ER Sherwood and A Koutrouvelis)</i>	
The Influence of Nutrition on Mucosal Immunology and Endothelial Cell Adhesion Molecules	63
<i>(BL Zarzaur, K Fukatsu, and KA Kudsk)</i>	
Intestinal Microcirculation: Changes in Sepsis and Effect of Vasoactive Manipulation . . .	72
<i>(LCH Tham, CM Martin, and WJ Sibbald)</i>	
Microvascular Permeability in Experimental Sepsis: Mechanisms, Modulation and Management	80
<i>(S Singh, CP Winlove, and TW Evans)</i>	

Infectious Challenges

Catheter-Related Infections in the ICU	95
<i>(P Eggimann and D Pittet)</i>	

Ecological Impact of Beta-lactam Treatment on Normal Human Intestinal Microflora	111
<i>(C Edlund, M Hedberg, and CE Nord)</i>	

Non-Pharmacologic Prevention of Ventilator-Associated Pneumonia (VAP)	123
<i>(MH Kollef)</i>	

Fungal Infections

Fungal Infections in Critically Ill Surgical Patients	135
<i>(PA Lipsett)</i>	

Candida: Some Thoughts	144
<i>(N Soni)</i>	

Steroid Therapy

Clinical Impact of Glucocorticoid Pharmacodynamics	163
<i>(T Hirano, K Oka, and T Nagao)</i>	

Corticosteroids in the Acute Respiratory Distress Syndrome	169
<i>(M Antonelli, G Conti, and R Proietti)</i>	

Corticosteroid Therapy in Critical Illness: A Changing Paradigm	175
<i>(N Ahmed and JC Marshall)</i>	

Pathophysiology of Lung Injury

Alveolar Epithelial Barrier: Acute Lung Injury	189
<i>(MA Matthay, T Nuckton, and B Daniel)</i>	

Pulmonary Oxygen Toxicity in Man: Emerging Concepts in Pathogenesis and Prevention	206
<i>(NS Ward and MM Levy)</i>	

Fibrosis in ARDS: How Close is the Link between Inflammation and Fibroproliferation?	217
<i>(GJ Bellingan, RJ Marshall, and GJ Laurent)</i>	

The Clinical Relevance of Exhaled Nitric Oxide: A Critical Review	225
<i>(H Gerlach)</i>	

Acute Respiratory Failure

Hypoxemia and Mortality in the ICU	239
<i>(JD Young)</i>	

Diffuse Alveolar Hemorrhage in the ICU	247
<i>(TS van der Werf)</i>	

Optimal Positioning for the Adult Intensive Care Patient while Prone	256
<i>(M Barker and R Beale)</i>	

Mechanical Ventilation

Utilization of Mechanical Ventilation in Critical Care	265
<i>(A Anzueto and A Esteban)</i>	

Respiratory Physiology as a Basis for the Management of Acute Lung Injury	283
<i>(S Grasso, F Giunta, and VM Ranieri)</i>	

High Frequency Oscillatory Ventilation: A Tool to Decrease Ventilator-Induced Lung Injury?	290
<i>(ND Ferguson, TE Stewart, and AS Slutsky)</i>	

Extubation Failure	305
<i>(SK Epstein)</i>	

Non-invasive Ventilation: Why Does It Fail?	318
<i>(MJ Moore and GA Schmidt)</i>	

Surgery

Reducing the Morbidity and Mortality of High-Risk Surgical Patients	331
<i>(J Ball, A Rhodes, and ED Bennett)</i>	

Causes of Oxygenation Impairment During Anesthesia	343
<i>(G Hedenstierna)</i>	

Respiratory Function in Obese Patients in the Peri-operative Period	352
<i>(P Pelosi, N Bottino, and L Gattinoni)</i>	

Post-operative Myocardial Ischemia and Infarction	365
<i>(P Foëx)</i>	

Abdominal Crises

Novel Strategies for the Management of Severe Acute Pancreatitis	379
<i>(R Andersson, G Eckerwall, and P Haraldsen)</i>	

The Hepatorenal Syndrome	390
<i>(MG Phillips, R Harry, and J Wendon)</i>	

Sedation

Sedation in the Intensive Care Environment	405
<i>(M Maze)</i>	

Intensive Care Sedation: The Alpha-2 Agonists	414
<i>(RM Venn, A Steele, and RM Grounds)</i>	

Intravenous Fluids

Fluid Therapy: Present Controversies	429
<i>(H Haljamäe and S Lindgren)</i>	

Crystalloids versus Colloids in the Treatment of Hypovolemic Shock	443
<i>(JF Baron)</i>	

Human Albumin on the ICU: Can We Live Without It?	467
<i>(J Boldt)</i>	

Intra-operative Use of Hypertonic Solutions	476
<i>(S Tølløfsrud and GC Kramer)</i>	

Adverse Effects of Colloids on Renal Function	486
<i>(JF Baron)</i>	

Should Old Red Cells be Transfused in Critically Ill Patients?	494
<i>(PC Hébert and I Chin-Yee)</i>	

Current Status of Artificial Oxygen Carriers	507
<i>(DR Spahn)</i>	

Emergencies

Intensive Care in a Forward Deployed Military Field Surgical Combat Support Hospital	521
<i>(SM Grosso, CW Scott, and JO Keenan)</i>	

Diagnosis of Traumatic Aortic Injuries	534
<i>(P Vignon)</i>	

Diagnosis and Treatment of Hyperosmolar Emergencies	544
<i>(JA Kruse)</i>	

Neurology

Conservative and Invasive Treatment of Space-Occupying Hemispheric Stroke	563
<i>(T Steiner, P Ringleb, and W Hacke)</i>	

Thrombolytic Therapy for Intraventricular and Intraparenchymal Hemorrhage	577
<i>(JR Carhuapoma, NJ Naff, and DF Hanley)</i>	

Cerebral Function in Vegetative State studied by Positron Emission Tomography	587
<i>(S Laureys, ME Faymonville, and M Lamy)</i>	

Cardiovascular Crises

Evaluation of Platelet Membrane Glycoproteins in Ischemic Heart Disease	601
<i>(S Massberg, I Müller, and M Gawaz)</i>	

Coronary Thrombosis and Myocardial Infarction	620
<i>(C de Zwaan, AJM Oude Ophuis, and FWA Bär)</i>	

Diagnosis and Treatment of Tachycardias	638
<i>(H-J Trappe)</i>	

Cardiopulmonary Resuscitation:

- Lessons from the Past and Trends for the Future 649
(PE Marik and J Varon)

Effects of Catecholamine Therapy on Regional Perfusion

- in Septic Shock 658
(MM Treggiari-Venzi, PM Suter, and JA Romand)

ICU Monitoring

- Evaluation of Cardiac Output and Cardiac Preload 671
(SG Sakka and A Meier-Hellmann)

Transesophageal Echocardiography:

- The Relationship between Pressure, Flow and Function 680
(JI Poelaert, G Schüpfer, and G Poortmans)

Respiratory Changes in Arterial Pressure

- in Mechanically Ventilated Patients 696
(F Michard and J-L Teboul)

The Study of the Microcirculation

- using Orthogonal Polarization Spectral Imaging 705
(AG Harris, S Langer, and K Messmer)

- Assessment of Tissue Oxygenation in the Critically Ill 715
(B Vallet, B Tavernier, and N Lund)

- Blood Gas Monitoring with Optodes 726
(CK Mahutte and TS Gallacher)

Interpretation of Changes in Regional

- and Mucosal PCO₂ Gradients: The Haldane Effect 736
(SM Jakob and J Takala)

- The Meaning of Lactate 743
(S Subramanian and JA Kellum)

- Routine Assessment of Tissue Metabolism in the Critically Ill . 752
(RJ Cusack, PJ Newman, and A Rhodes)

ICU Costs

- The Costs of Infection in the ICU 763
(H Burchardi, D Schürgers, and O Mörer)

Costs of Antibiotic Therapy: Maximizing Effectiveness While Minimizing Cost	770
<i>(M-K Kim and CH Nightingale)</i>	
Clinical Pathways as a Tool for 'Intelligent' Rationing in Intensive Care	781
<i>(M Imhoff)</i>	
 2000 and Beyond	
The Constraints and Necessity of Teaching Emergency Medicine to Medical Students	795
<i>(B Vermeulen, NV Vu, and PF Unger)</i>	
ICU Organization: Does it Matter?	809
<i>(MP Young, SD Surgenor, and HL Corwin)</i>	
Training of Young Intensivists in Management Skills for the New Millennium	816
<i>(V Kvetan)</i>	
Outcome Prediction in Intensive Care	825
<i>(R Moreno)</i>	
Critical Care in the Elderly: The Final Challenge	837
<i>(S Ridley)</i>	
Subject Index	849

<http://www.springer.com/978-3-540-66830-5>

Yearbook of Intensive Care and Emergency Medicine
2000

Vincent, P.J.-L.

2000, XXVI, 858 p., Softcover

ISBN: 978-3-540-66830-5