

# Contents

## **VIII Preface**

Hirasawa, H. (Chiba); Suzuki, H. (Saitama)

## **1 Introduction**

Ronco, C. (Vicenza)

Current Status

---

## **4 Current Status of Blood Purification in Critical Care in Japan**

Kaizu, K.; Inada, Y.; Kawamura, A.; Oda, S.; Hirasawa, H. (Yokohama)

Terminology and Indication

---

## **11 Terminology and Classification of Blood Purification in Critical Care in Japan**

Kawanishi, H. (Hiroshima)

## **21 Indications for Blood Purification in Critical Care**

Hirasawa, H. (Chiba)

Acute Renal Failure

---

## **31 Acute Kidney Injury of Non-Septic Origin Requiring Dialysis Therapy**

Suzuki, H.; Kanno, Y.; Tsukamoto, I.; Tsuchiya, Y.;  
Sugahara, S. (Saitama)

## **40 Septic Acute Renal Failure**

Mori, T.; Shimizu, T.; Tani, T. (Ōtsu)

Non-renal Indication

---

## **47 Non-Renal Indications for Continuous Renal Replacement Therapy: Current Status in Japan**

Oda, S.; Sadahiro, T.; Hirayama, Y.; Nakamura, M.; Watanabe, E.; Tateishi, Y.;  
Hirasawa, H. (Chiba)

- 54 Continuous Hemodiafiltration Using a Polymethyl Methacrylate Membrane Hemofilter for Severe Acute Pancreatitis**  
Abe, R.; Oda, S.; Shinozaki, K.; Hirasawa, H. (Chiba)
- 64 Blood Purification in Fulminant Hepatic Failure**  
Shinozaki, K.; Oda, S.; Abe, R.; Tateishi, Y.; Yokoi, T.; Hirasawa, H. (Chiba)
- 73 Treatment of Severe Sepsis and Septic Shock by CHDF Using a PMMA Membrane Hemofilter as a Cytokine Modulator**  
Nakamura, M.; Oda, S.; Sadahiro, T.; Hirayama, Y.; Watanabe, E.; Tateishi, Y.; Nakada, T.; Hirasawa, H. (Chiba)
- 83 Efficacy of Continuous Hemodiafiltration with a Cytokine-Adsorbing Hemofilter in the Treatment of Acute Respiratory Distress Syndrome**  
Matsuda, K.; Moriguchi, T. (Yamanashi); Oda, S.; Hirasawa, H. (Chiba)
- 93 Blood Purification for Intoxication**  
Nakae, H. (Akita)

Current Progresses in Methodology in Blood Purification in Critical Care

---

- 100 Current Progress in Blood Purification Methods Used in Critical Care Medicine**  
Saito, A. (Isehara)
- 112 Membrane Materials for Blood Purification in Critical Care**  
Yamashita, A.C.; Tomisawa, N. (Kanagawa)
- 119 Anticoagulation in Acute Blood Purification for Acute Renal Failure in Critical Care**  
Shinoda, T. (Tokyo)
- 126 Equipment and Monitoring in Continuous Renal Replacement Therapy**  
Yamashita, Y.; Tsukamoto, I.; Kanno, Y.; Suzuki, H. (Saitama)
- 134 Cytokine Adsorbing Columns**  
Taniguchi, T. (Kanazawa)
- 142 Plasma Dia-Filtration for Severe Sepsis**  
Eguchi, Y. (Otsu City)
- 150 Application of Polymyxin B Covalently Immobilized Fiber in Patients with Septic Shock**  
Suzuki, H. (Saitama); Shoji, H. (Tokyo)
- 158 Special Considerations in Continuous Hemodiafiltration with Critically Ill Pediatric Patients**  
Shiga, H.; Kikuchi, Y. (Ichiهارa); Hattori, N.; Hirasawa, H. (Chiba)

Controversies in Blood Purification in Critical Care

---

- 167 Selection of Modality in Continuous Renal Replacement Therapy**  
Kanno, Y.; Suzuki, H. (Saitama)

- 173 Online CHDF System: Excellent Cost-Effectiveness for Continuous Renal Replacement Therapy with High Efficacy and Individualization**  
Takatori, M.; Yamaoka, M.; Nogami, S.; Ojima, K.; Masuda, T.; Takeuchi, S.; Tada, K. (Hiroshima)

---

New Technology

- 181 'Super High-Flux' or 'High Cut-Off' Hemofiltration and Hemodialysis**  
Naka, T. (Wakayama); Haase, M. (Berlin); Bellomo, R. (Melbourne)

**190 Author Index**

**191 Subject Index**