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The effects of continuous venovenous hemofiltration on coagulation activation

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Abstract

Introduction The mechanism of coagulation activation during continuous venovenous hemofiltration (CVVH) has not yet been elucidated. Insight into the mechanism(s) of hemostatic activation within the extracorporeal circuit could result in a more rational approach to anticoagulation. The aim of the present study was to investigate whether CVVH using cellulose triacetate filters causes activation of the contact factor pathway or of the tissue factor pathway of coagulation. In contrast to previous studies, CVVH was performed without anticoagulation.

Methods Ten critically ill patients were studied prior to the start of CVVH and at 5, 15 and 30 minutes and 1, 2, 3 and 6 hours thereafter, for measurement of prothrombin fragment F1+2, soluble tissue factor, activated factor VII, tissue factor pathway inhibitor, kallikrein-C1-inhibitor and activated factor XII-C1-inhibitor complexes, tissue-type plasminogen activator, plasminogen activator inhibitor type I, plasmin-antiplasmin complexes, protein C and antithrombin.

Results During the study period the prothrombin fragment F1+2 levels increased significantly in four patients (defined as group A) and did not change in six patients (defined as group B). Group A also showed a rapid increase in transmembrane pressure, indicating clotting within the filter. At baseline, the activated partial thromboplastin time, the prothrombin time and

the kallikrein-C1-inhibitor complex and activated factor XII-C1-inhibitor complex levels were significantly higher in group B, whereas the platelet count was significantly lower in group B. For the other studied markers the differences between group A and group B at baseline were not statistically significant. During CVVH the difference in the time course between group A and group B was not statistically significant for the markers of the tissue factor system (soluble tissue factor, activated factor VII and tissue factor pathway inhibitor), for the markers of the contact system (kallikrein-C1-inhibitor and activated factor XII-C1-inhibitor complexes) and for the markers of the fibrinolytic system (plasmin-antiplasmin complexes, tissue-type plasminogen activator and plasminogen activator inhibitor type I).

Conclusion Early thrombin generation was detected in a minority of intensive care patients receiving CVVH without anticoagulation. Systemic concentrations of markers of the tissue factor system and of the contact system did not change during CVVH. To elucidate the mechanism of clot formation during CVVH we suggest that future studies are needed that investigate the activation of coagulation directly at the site of the filter. Early coagulation during CVVH may be related to lower baseline levels of markers of contact activation.

CRRT = continuous renal replacement therapy; CVVH = continuous venovenous hemofiltration; ELISA = enzyme-linked immunosorbent assay; F1+2 = prothrombin fragment F1+2; FVIIa = activated factor VII; FVIIa = activated factor XII; IL = interleukin; PAP = plasmin-antiplasmin; TFPi = tissue factor pathway inhibitor; t-PA = tissue type plasminogen activator.

The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No

Miet Schetz



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The book delves into The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No . The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No , encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No
 - Chapter 2: Essential Elements of The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No
 - Chapter 3: The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No in Everyday Life
 - Chapter 4: The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No . This chapter will explore what The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No is, why The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No is vital, and how to effectively learn about The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No .
3. In chapter 2, the author will delve into the foundational concepts of The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No . The second chapter will elucidate the essential principles that need to be understood to grasp The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No in its entirety.
4. In chapter 3, the author will examine the practical applications of The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No in daily life. The third chapter will showcase real-world examples of how The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No in specific contexts. This chapter will explore how The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No . This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of The Hemostatic System And Continuous Venovenous Hemofiltration Mutual Effects Acta Biomedica Lovaniensia No .

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