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EDITED BY
Zhongheng Zhang,
Sir Run Run Shaw Hospital, China

REVIEWED BY
Mirjam Bachler,
Medical Informatics and Technology
SUMIT, Austria
Zhenrong Xu,
Shanghai First Maternity and Infant
Hospital, China

*CORRESPONDENCE
Yingren Zhao
✉ zhaoyingren@mail.xjtu.edu.cn
Jinfeng Liu
✉ liujinfeng2003@163.com
✉ liujinfeng@mail.xjtu.edu.cn

[†]These authors have contributed equally to this work and share first authorship

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Low-molecular-weight heparin therapy reduces 28-day mortality in patients with sepsis-3 by improving inflammation and coagulopathy

Ze Zhang^{1,2†}, Taotao Yan^{1,2†}, Danfeng Ren^{1,2†}, Jingwen Zhou^{1,2},
Liangru Liu², Juan Li^{1,2}, Shan Fu², Tianzhi Ni², Weicheng Xu²,
Yuan Yang^{1,3}, Tianyan Chen^{1,3}, Yingli He^{1,3}, Yingren Zhao^{2,3*} and
Jinfeng Liu^{1,2,3*}

¹The First Affiliated Hospital, Xi'an Jiaotong University, Xi'an, China, ²Shaanxi Clinical Medical Research Center of Infectious Diseases, Xi'an, China, ³Institution of Hepatology, The First Affiliated Hospital, Xi'an Jiaotong University, Xi'an, China

Background and aim: Sepsis is a syndromic response to infection and is associated with high mortality, thus imposing a significant global burden of disease. Although low-molecular-weight heparin (LMWH) has been recommended to prevent venous thromboembolism, its anticoagulant and anti-inflammatory effects in sepsis remain controversial. Owing to the modification of the Sepsis-3 definition and diagnostic criteria, further evaluation of the efficacy and benefit population of LMWH is required.

Methods: We performed a retrospective cohort study to assess whether LMWH improved the inflammation, coagulopathy, and clinical outcomes against Sepsis-3 and to identify the target patients. All patients diagnosed with sepsis at the First Affiliated Hospital of Xi'an Jiaotong University (the largest general hospital in northwest China) from January 2016 to December 2020 were recruited and re-evaluated using Sepsis-3 criteria.

Results: After 1:1 propensity score matching, 88 pairs of patients were categorized into the treatment and control groups based on subcutaneous LMWH administration. Compared with the control group, a significantly lower 28-day mortality was observed in the LMWH group (26.1 vs. 42.0%, $p = 0.026$) with a comparable incidence of major bleeding events (6.8 vs. 8.0%, $p = 0.773$). Cox regression analysis showed that LMWH administration was the independent protective factor for septic patients (aHR, 0.48; 95% CI, 0.29–0.81; $p = 0.006$). Correspondingly, the LMWH treatment group showed a significant improvement in inflammation and coagulopathy. Further subgroup analysis showed that LMWH therapy was associated with favorable outcomes in patients younger than 60 years and diagnosed with sepsis-induced coagulopathy (SIC), ISTH overt DIC, non-septic shock, or non-diabetics and in patients included in the moderate-risk group (APACHE II score 20–35 or SOFA score 8–12).

Conclusion: Our study results showed that LMWH improves 28-day mortality by improving inflammatory response and coagulopathy in patients meeting Sepsis-3 criteria. The SIC and ISTH overt DIC scoring systems can better identify septic patients who are likely to benefit more from LMWH administration.

KEYWORDS

low-molecular-weight heparin, disseminated intravascular coagulation, sepsis, mortality, propensity score

Low Molecular Weight Heparin Therapy

Jef Arnout, M. Hoylaerts



Low Molecular Weight Heparin Therapy:

Hemostasis and Thrombosis Robert W. Colman, 2006 The pre eminent reference on coagulation disorders is now in its thoroughly updated Fifth Edition Written by more than 160 of the world s foremost authorities this encyclopedic volume integrates basic science and clinical practice and details all that is currently known about blood clotting disorders and how to manage patients with these and related problems This edition has been reorganized into smaller more tightly focused chapters to help readers find information easily A new co editor Samuel Z Goldhaber MD has expanded the cardiology portion of the book Other new features include a two color page design and more than 100 full color illustrations

Disorders of Thrombosis and Hemostasis Rodger L. Bick, 2002 Written for a multidisciplinary audience this revision presents current data on antithrombotic therapy including warfarins and heparin delivers practical techniques for diagnosing and treating bleeding and clotting disorders and includes all topics necessary for board review This practical text covers disorders of thrombosis and hemostasis in a logical and sequential manner etiology pathophysiology clinical and laboratory diagnosis and management Also included are diagnostic tests for deep venous thrombosis three new clotting defects hereditary disorders and defects liver and renal diseases cardiovascular events and problems in obstetrical gynecological patients A Brandon Hill recommended title

Primary Care Medicine Allan H. Goroll, Albert G. Mulley, 2012-03-28 Now in its Sixth Edition this comprehensive text provides pertinent information on medical diagnosis therapy lab tests and health maintenance essential to decision making in primary care medicine Every chapter has been revised to include more images tables and bulleted lists Practical recommendations that incorporate the best available evidence expert consensus guidelines and clinical judgement are listed in bulleted items at the end of every chapter The dermatology section has been extensively revised for this edition by a new section editor A companion Website offers the fully searchable text and an image bank

Low-molecular-weight Heparins in Prophylaxis and Therapy of Thromboembolic Diseases H. Bounameaux, Henri Bounameaux, 1994 Provides information for both basic scientists and specialist clinicians on the new class of heparin fractions developed in France in the 1980s and now gradually replacing the old unfractionated heparin for the treatment and prevention of venous thromboembolism Among the topics are the pharmacology the mode of action in plasma interaction with platelets and prevention following various kinds of surgery Annotation c by Book News Inc Portland Or

Antithrombotic Drug Therapy in Cardiovascular Disease Arman T. Askari, A. Michael Lincoff, 2010-03-20 Substantial morbidity and mortality remains associated with thrombotic events has stimulated the rapid expansion of the available armamentarium to combat pathologic thrombosis Pathologic thrombosis plays an essential role in the pathogenesis of acute coronary syndromes ACS ischemic complications of percutaneous coronary intervention PCI venous thromboembolic disease and embolic complications of arrhythmias and various cardiomyopathies Written by experts in the field Antithrombotic Drug Therapy in Cardiovascular Disease carefully examines individual and various combinations of the available antithrombotic

regimens including fibrinolytic agents antiplatelet therapies aspirin thienopyridines glycoprotein IIb/IIIa inhibitors and anticoagulant therapies unfractionated heparin low molecular weight heparins direct thrombin inhibitors and synthetic factor X inhibitors non ST segment elevation NSTEMI ACS and ST segment elevation myocardial infarction STEMI A detailed overview Antithrombotic Drug Therapy in Cardiovascular Disease presents the evidence demonstrating the efficacy of available antithrombotic therapies in specific disease states such as atrial fibrillation cardiomyopathy valvular heart disease and heparin induced thrombocytopenia HIT

Thrombosis and Anti-Thrombotic Therapy Gilles Lugassy, Benjamin Brenner, Sam Schulman, Meyer Samama, Marc Cohen, 2001-02-22 Written by a team of acknowledged specialists Thrombosis and Anti-Thrombotic Therapy provides a comprehensive guide to the main advances in thrombosis its pathogenesis clinical features prevention and therapy In addition to summarizing the clinical studies of heparins and heparinoids the authors also review the current approaches to heart disease stroke peripheral arterial disease and venous thrombosis Specific topics include acquired hypercoagulable states selective inhibitors of coagulation factors and thrombosis and cancer

New Therapeutic Agents in Thrombosis and Thrombolysis Jane E. Freedman, Joseph Loscalzo, 2016-04-19 As the number of patients with thrombosis and thrombolysis increases there is a critical need for clinicians to learn the latest scientific discoveries and treatment options This timely Third Edition is a comprehensive text for cardiologists hematologists and pharmacologists in need of a resource on current agent development technology for treatment

Drug Therapy in Nursing Diane S. Aschenbrenner, Samantha J. Venable, 2009 This text presents a totally nursing focused framework for teaching and learning nursing pharmacology and places the patient at the center of all drug administration decisions and considerations The book presents core drug knowledge using prototypes of different drug classes and emphasizes core patient variables that influence the patient's response to therapy This thoroughly updated Third Edition covers newly approved drugs has separate chapters on drugs affecting fungal and viral infections and includes more pathophysiology information FDA Black Box warnings have been added to the discussion of each prototype when applicable and safety alerts have been added to emphasize prevention of common medication errors A companion Website offers student and instructor ancillaries including NCLEX style questions pathophysiology animations medication administration videos and dosage calculation quizzes

Management Strategies in Antithrombotic Therapy Arman Askari, Michael Lincoff, Adrian Messerli, 2008-03-11 Intravascular thrombus formation remains one of the most significant problems in cardiovascular medicine It underlies the clinical presentation of acute coronary syndromes including unstable angina and non ST segment elevation myocardial infarction NSTEMI and ST segment elevation myocardial infarction More and more individuals are stricken with an acute MI and undergo a percutaneous coronary intervention PCI Several reasons apply including an increasingly aged population the growing burden of chronic risk factors such as diabetes obesity sedentary behaviour and improvements in early recognition and intervention Thrombus formation also results in substantial morbidity and mortality Despite significant advances in prevention and treatment of

venous thromboembolism pulmonary embolism remains a common preventable cause of hospital deaths Implementing the most appropriate and safe anticoagulation therapy across the spectrum of cardiovascular disease in the presence of a wide range of other risk factors remains a challenge Written by leading authorities in the field **Management Strategies in Antithrombotic Therapy** offers a comprehensive review of antithrombotic therapy including the latest therapies risk factors and evidence based strategy The book acquaints readers with the data behind the commonly used antithrombotic agents and assists them in formulating a sound evidence based therapeutic strategy appropriate for each patient This book is an invaluable resource for all postgraduate students and specialist physicians in cardiovascular medicine cardiac and vascular surgery and critical care

Meyler's Side Effects of Drugs 15E Jeffrey K. Aronson, 2014-04-11 Building on the success of the 14 previous editions this remarkable reference has been extensively reorganized and expanded and now comprises almost 1 500 individual drug articles providing the most complete coverage of adverse reactions and interactions found anywhere Each article contains detailed and authoritative information about the adverse effects of each drug with comprehensive references to the primary literature making this a must have for any academic or medical library pharmacologist regulatory organization hospital dispensary or pharmaceutical company Now available online for all academic corporate or government institution as well as individuals via Science Direct The online version provides an unparalleled depth of coverage and functionality by offering convenient desktop access and enhanced features such as increased searchability extensive internal cross linking and fully downloadable and printable full text HTML or PDF articles Enhanced encyclopedic format with drug monographs now organised alphabetically Completely expanded coverage of each drug thalidomide warranted three sentences in Meyler's 14th edition but is now a 13 page extensive monograph Clearer systematic organization of information for easier reading including case histories to provide perspective on each listing Extensive bibliography with over 40 000 references Meyler's 15th edition incorporates all relevant citations from Meyler's 14th but also includes relevant citations from previous editions of Meyler's and Side Effects of Drugs Annuals to give a historical perspective on the use and safety of drugs

Management of Acute Pulmonary Embolism Stavros V. Konstantinides, 2007-12-31 **Management of Acute Pulmonary Embolism** highlights traditional novel and evolving aspects of the diagnosis and treatment of pulmonary embolism PE The contributors comprise an international team of experts who have each made noteworthy contributions in this exciting field Important aspects of diagnosis risk stratification and differential treatment of patients with PE are presented in a concise yet comprehensive manner Emphasis is placed on specific issues related to PE including pregnancy cancer thrombophilia and air travel The authors critically review and interpret available data and provide clear recommendations for diagnosis and therapeutic concerns in clinical management of PE patients **Management of Acute Pulmonary Embolism** is organized in three precise sections diagnosis treatment and special topics Each section is up to date and detailed and provides clear recommendations for diagnostic and therapeutic approaches to

patients with PE in clinical practice This practical volume is an essential starting point for future study for both medical students and established investigators **Anesthetic and Obstetric Management of High-Risk Pregnancy** Sanjay Datta, 2006-04-29 It has been enormously satisfying to prepare the third edition of Anesthetic and Obstetric Management of High Risk Pregnancy because it fulfills the need for close communication between two specialties anesthesiology and obstetrics This relationship is necessary not only to take care of the sick parturient but also to deliver a healthy baby New developments in obstetrics and in obstetric anesthesia necessitated this third edition Most of the contributors to this edition are new and they have provided information on the latest approaches as well as updated information In addition Chapter 13 Critical Care Anesthesia for High Risk Parturients is completely new Like earlier editions the third edition includes contributions from an international team of experts in the field of obstetric anesthesia and obstetrics I thank all the authors for their valuable contributions The authors have expressed their own opinions and recommendations which do not necessarily reflect my own views I also wish to thank Ms Elizabeth Kiernan for her endless help in completing the new edition I sincerely hope this edition will further reinforce the concept of the team approach for taking care of the high risk parturient

Critical Decisions in Thrombosis and Hemostasis Jeffrey Ginsberg, Clive Kearon, Jack Hirsh, 1998 Critical Decisions in Thrombosis and Hemostasis The authors use algorithms or decision trees to guide clinicians through diagnosis of thrombosis blood clotting and arterial blockage and hemostasis excessive bleeding or failure of blood to clot These two problems are often life threatening and must be dealt with swiftly and effectively Following a step by step decision tree is a proven method of conveying information quickly There are three major sections to this book Venous Thrombosis Arterial Thrombosis and Hemostasis Each section includes clinical assessment diagnosis and therapy including the latest drug therapies **Acute Coronary Syndromes: A Companion to Braunwald's Heart Disease E-Book** Pierre Theroux, 2010-09-24 Acute Coronary Syndromes a Companion to Braunwald's Heart Disease covers the state of the art scientific and clinical information you need to rapidly evaluate and manage acute coronary syndromes Dr Pierre Theroux and his team of expert contributors present advances in diagnostic and imaging techniques such as biomarkers nuclear cardiology echocardiography and multislice CT secondary prevention and new antiplatelet anti ischemic and gene therapies Tap into the most definitive knowledge available from one of the leading experts in the field and a stellar cast of contributors Understand the special considerations for the care of acute coronary syndromes in the emergency department and the coronary care unit Effectively handle the treatment of special populations and chronic patients thanks to coverage of these challenges See techniques and procedures in greater detail and clarity through the all new full color design Approach treatment with a global perspective from the new section on Population Based Perspective that discusses the INTERHEART study insights from the REACH registry lessons learned from European registries and ACS in North America Gain a comprehensive understanding of ACS through coverage of pathophysiology molecular mechanisms the role of the immune system and brand new chapters on cell necrosis and cell

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Hemostasis in Pregnancy A Guide to Management the content has been thoroughly updated with a particular focus on strengthening the management sections to ensure that advice on management represents state of the art

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