

Platelet Transfusion: A Clinical Practice Guideline From the AABB

Richard M. Kaufman, MD; Benjamin Djulbegovic, MD, PhD; Terry Gernsheimer, MD; Steven Kleinman, MD; Alan T. Timmourt, MD; Kelley E. Capocelli, MD; Mark D. Cipolle, MD, PhD; Claudia S. Cohn, MD, PhD; Mark K. Fung, MD, PhD; Brenda J. Grossman, MD, MPH; Paul D. Mintz, MD; Barbara A. O'Malley, MD; Deborah A. Sosok-Pizzini, MD; Aryeh Shander, MD; Gary E. Stack, MD, PhD; Kathryn E. Webert, MD, MS; Robert Weinstein, MD; Babu G. Welch, MD; Glenn J. Whitman, MD; Edward C. Wong, MD; and Aaron A.R. Tobian, MD, PhD

Background: The AABB (formerly, the American Association of Blood Banks) developed this guideline on appropriate use of platelet transfusion in adult patients.

Methods: These guidelines are based on a systematic review of randomized, clinical trials and observational studies (1900 to September 2014) that reported clinical outcomes on patients receiving prophylactic or therapeutic platelet transfusions. An expert panel reviewed the data and developed recommendations using the Grading of Recommendations Assessment, Development and Evaluation (GRADE) framework.

Recommendation 1: The AABB recommends that platelets should be transfused prophylactically to reduce the risk for spontaneous bleeding in hospitalized adult patients with therapy-induced hypoproliferative thrombocytopenia. The AABB recommends transfusing hospitalized adult patients with a platelet count of 10×10^9 cells/L or less to reduce the risk for spontaneous bleeding. The AABB recommends transfusing up to a single apheresis unit or equivalent. Greater doses are not more effective, and lower doses equal to one half of a standard apheresis unit are equally effective. (Grade: strong recommendation; moderate-quality evidence)

Recommendation 2: The AABB suggests prophylactic platelet transfusion for patients having elective central venous catheter placement with a platelet count less than 20×10^9 cells/L. (Grade: weak recommendation; low-quality evidence)

Recommendation 3: The AABB suggests prophylactic platelet transfusion for patients having elective diagnostic lumbar puncture with a platelet count less than 50×10^9 cells/L. (Grade: weak recommendation; very-low-quality evidence)

Recommendation 4: The AABB suggests prophylactic platelet transfusion for patients having major elective nonneurological surgery with a platelet count less than 50×10^9 cells/L. (Grade: weak recommendation; very-low-quality evidence)

Recommendation 5: The AABB recommends against routine prophylactic platelet transfusion for patients who are nonthrombocytopenic and have cardiac surgery with cardiopulmonary bypass. The AABB suggests platelet transfusion for patients having bypass who exhibit perioperative bleeding with thrombocytopenia and/or evidence of platelet dysfunction. (Grade: weak recommendation; very-low-quality evidence)

Recommendation 6: The AABB cannot recommend for or against platelet transfusion for patients receiving antiplatelet therapy who have intracranial hemorrhage (traumatic or spontaneous). (Grade: uncertain recommendation; very-low-quality evidence)

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Approximately 2.2 million platelet doses are transfused annually in the United States (1). A high proportion of these platelet units are transfused prophylactically to reduce the risk for spontaneous bleeding in patients who are thrombocytopenic after chemotherapy or hematopoietic progenitor cell transplantation (HPCT) (1-3). Unlike other blood components, platelets must be stored at room temperature, limiting the shelf life of platelet units to only 5 days because of the risk for bacterial growth during storage. Therefore, maintaining hospital platelet inventories is logistically difficult and highly resource-intensive (4, 5). Platelet transfusion is associated with several risks to the recipient (Table 1), including allergic reactions and febrile non-hemolytic reactions. Sepsis from a bacterially contaminated platelet unit represents the most frequent infectious complication from any blood product today (8). In any situation where platelet transfusion is being considered, these risks must be balanced against the potential clinical benefits.

GUIDELINE FOCUS

These guidelines were designed to provide pragmatic recommendations, based on the best available

published evidence, about when platelet transfusion may be appropriate in adult patients. For several common clinical situations, we attempted to identify a platelet count threshold below which platelet transfusion may improve hemostasis and above which platelet transfusion is unlikely to benefit the patient. We did not attempt to address all clinical situations in which platelets may be transfused, and these guidelines are not intended to serve as standards. Clinical judgment, and not a specific platelet count threshold, is paramount in deciding whether to transfuse platelets.

TARGET POPULATION

These guidelines provide advice for adult patients who are candidates for platelet transfusion.

GUIDELINE DEVELOPMENT PROCESS

The AABB commissioned and funded the development of these guidelines.

Panel Composition

A panel of 21 experts was convened. Fifteen participants were members of the Clinical Transfusion Medicine Committee of the AABB, all of whom were

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Blood Banking and Transfusion Medicine Christopher D. Hillyer, Leslie E. Silberstein, Paul M. Ness, Kenneth C. Anderson, John D. Roback, 2006-10-18 Ever since the discovery of blood types early in the last century transfusion medicine has evolved at a breakneck pace This second edition of Blood Banking and Transfusion Medicine is exactly what you need to keep up It combines scientific foundations with today s most practical approaches to the specialty From blood collection and storage to testing and transfusing blood components and finally cellular engineering you ll find coverage here that s second to none New advances in molecular genetics and the scientific mechanisms underlying the field are also covered with an emphasis on the clinical implications for treatment Whether you re new to the field or an old pro this book belongs in your reference library Integrates scientific foundations with clinical relevance to more clearly explain the science and its application to clinical practice Highlights advances in the use of blood products and new methods of disease treatment while providing the most up to date information on these fast moving topics Discusses current clinical controversies providing an arena for the discussion of sensitive topics Covers the constantly changing approaches to stem cell transplantation and brings you the latest information on this controversial topic Transfusion Medicine and Hemostasis Beth H. Shaz, Christopher D. Hillyer, James C. Zimring, Thomas C. Abshire, 2009-06-09 Transfusion Medicine and Hemostasis is a manual style book that links transfusion medicine and hemostasis to laboratory methods and diagnostic tests engaged in routine and specialized coagulation laboratories The book is divided into two main parts with chapters that are brief and readable The first main part of the book is subdivided into blood banking and transfusion medicine Under blood banking the chapters cover blood collection donation process component manufacturing donor testing and storage transfusion medicine chapters examine the components for transfusion pre transfusion immunohematology testing blood groups blood products and their modifications approaches to transfusion therapy in specific clinical settings and transfusion reactions and complications In addition chapters that talk about apheresis cellular therapy and tissue banking in the hospital setting are included Hemostasis the second main part of the book is subdivided into three sections The first section clinical coagulation includes chapters about neonatal thrombocytopenia inherited platelet function disorders immune thrombocytopenia immune mediated coagulopathies congenital bleeding disorders and acquired bleeding disorders The second section relates to laboratory testing of coagulation with chapters about laboratory assessments of platelet disorders von Willebrand disease coagulation factor disorders fibrinogen and fibrinolysis tests for hypercoagulable state and for activation of the coagulation system and laboratory support for anticoagulation The third section discusses coagulation factor products This book will be valuable for the education of trainees practitioners and future leaders in these fields *Immunohematology: Principles and Practice* Eva D Quinley, 2020-06-15 Immunohematology Principles and Practice Third Edition an ideal text for anyone who wants to master the theory and practices of today s blood banking **Transfusion Guide for Clinicians** Kanchan

Bhardwaj,2012 Rossi's Principles of Transfusion Medicine Toby L. Simon,Edward L. Snyder,Christopher P. Stowell,Ronald G. Strauss,Bjarte G. Solheim,Marian Petrides,2011-09-23 Rossi's Principles of Transfusion Medicine is the most comprehensive and practical reference on transfusion science and medicine available It features brand new chapters on the measurement of cell kinetics obstetric transfusion practice cord blood transfusion alternatives and regenerative medicine Produced jointly with AABB the world's leading association in the fields of blood banking and transfusion medicine it now has two companion CD ROMs one containing interactive case studies and one containing PDFs of all 66 chapters **Tissue and Cell Clinical Use** Ruth M. Warwick,Scott A. Brubaker,2012-07-18 This new book explores clinical information in the tissue transplantation field and acts as a comprehensive learning tool to comply with regulatory requirements Broad in scope coverage includes all the traditionally transplanted tissues and moves into more complex areas of tissue grafting and the assisted reproduction fields This useful text focuses on the potential for disease transmission ways to improve safety and the role of the clinician in these safety aspects The book starts off by describing non surgical risks of using allografts and moves onto chapters devoted completely to tissue or cell specific issues relating to transplantation of the individual types of tissues or cells Tissue and Cell Clinical Use An Essential Guide is the final book in a series which covers all aspects of tissue banking donation processing and transplantation Each book in the series includes lists of learning points and case studies which consist of sample processing protocols descriptions of where processing went wrong sample risk assessments or validation studies This three book series covers all you need to know about tissue banking *Tissue and Cell Donation* Ruth M. Warwick,Deirdre Fehily,Scott A. Brubaker,Ted Eastlund,2009-02-25 This is the guide to tissue and cell donation that you have been waiting for Policies and practices reviewed using specific donor case histories as examples Multidisciplinary multi national team of editors and contributors with expertise in ethics consent transplantation microbiology and tissue and cell banking Provides a guide to easier and safer practice in referrals tissue procurement cord blood collection and decision making in general This unique book explores a range of issues related to the human impact of tissue and cell donation programmes around the world It addresses the areas that are of key concern and have profound implications for the donors recipients and healthcare professionals involved Focusing on tissue assisted reproduction and hematopoietic stem cells this book is essential reading for all those working in the field of human transplant donation and those who regulate this field

Wallach's Interpretation of Diagnostic Tests Mary A. Williamson,L. Michael Snyder,2012-03-28 Wallach's Interpretation of Diagnostic Tests now in its Ninth Edition has been completely revised and updated by a new author team from the Department of Hospital Laboratories UMass Memorial Medical Center faculty who are carrying on the tradition of Jacques Wallach's teachings This text serves as a practical guide to the use of laboratory tests which aids physicians in using tests more effectively and efficiently by offering test outcomes possible meanings differential diagnosis and summaries of tests available The book has been reorganized into 2 sections The first section is devoted to an alphabetical listing of

laboratory tests while stressing the integration of the clinical laboratory in the clinical decision making process Test sensitivity specificity and positive and negative infectious disease probabilities are included whenever appropriate Microbiology tests are listed in a separate chapter The second section is devoted to disease states Where appropriate a patient s chief complaint and or physical findings are initially presented with subsequent discussions focused on discrete disease states as they relate to a patient s chief complaint Current molecular diagnostic testing cytogenetics common pitfalls test limitations and identification of appropriate tests for specific clinical presentations are also addressed Ninth Edition highlights include Detailed listing and description of routine and esoteric tests listed alphabetically with information on when to order and how to interpret the test results based on evidence based laboratory medicine Information on how to work up patients with specific symptoms and the appropriate lab tests to order Up to date test procedures including molecular diagnostic tests Detailed microbiology chapter of infectious diseases Hospital Epidemiology and Infection Control C. Glen Mayhall, 2012-02-20 Thoroughly revised and updated for its Fourth Edition this highly acclaimed volume is the most comprehensive reference on hospital epidemiology and infection control Written by over 150 leading experts this new edition examines every type of hospital acquired nosocomial infection and addresses every issue relating to surveillance prevention and control of these infections in patients and in healthcare workers This new edition features new or significantly increased coverage of emerging infectious diseases avian influenza governmental regulation of infection control and payment practices related to hospital acquired infections molecular epidemiology the increasing prevalence of community acquired MRSA in healthcare facilities system wide infection control provisions for healthcare systems hospital infection control issues following natural disasters and antimicrobial stewardship in reducing the development of antimicrobial resistant organisms

Manual of Veterinary Transfusion Medicine and Blood Banking Kenichiro Yagi, Marie Holowaychuk, 2016-09-06 Das Manual of Veterinary Transfusion Medicine and Blood Banking bietet mit seinem praxisorientierten Ansatz jedem Veterinärmediziner evidenzbasierte Leitlinien für die klinische Praxis Liefert evidenzbasierte Informationen zu Verfahren in der Transfusionsmedizin und bei Blutbanken Umfasst Kapitel zum Screening von Transfusionsempfängern zur Auswahl von Spendern zur Blutentnahme und Lagerung sowie darüber wie die Nachfrage nach Blut erfüllt wird Beinhaltet klinische Transfusions- und Blutbankprotokolle die für die klinische Praxis relevant sind Ausgewogene Inhalte aus Sicht von Veterinärmedizinern und Veterinärtechnikern Mit Informationen zu Groß- und Kleintieren sowie Exoten **Transfusion in the Intensive Care Unit** Nicole P. Juffermans, Timothy S. Walsh, 2014-09-30 Due to a high incidence of anemia critically ill patients are frequently transfused with up to 40% of patients receiving a transfusion during their stay in the Intensive Care Unit It has become increasingly clear that there is an association between transfusion and adverse outcomes underlining the need for a careful assessment of the risks and benefits of a blood transfusion In the last decade there have been several large clinical trials that have studied red blood cell transfusion triggers in various ICU patient populations allowing us to take a

personalized approach to transfusion Moreover ICU patients often suffer from coagulopathy Recent studies have addressed the effectiveness of fresh frozen plasma and platelets to prevent or treat bleeding Aiming at a personalized therapy approach in transfusion practice this book is the first to offer a comprehensive summary of transfusion triggers for red blood cells in specific ICU patient populations and specific conditions In addition it discusses evidence for triggers for plasma and platelets and outlines the most common adverse effects of transfusion in the ICU Transfusion in the Intensive Care Unit is a practical handbook that can be used in everyday practice to guide transfusion and thus will serve as a valuable resource for physicians fellows and residents working in Intensive Care Anesthesiology and Cardiac Surgery Medical Management of the Surgical Patient Michael F. Lubin, Thomas F. Dodson, Neil H. Winawer, 2013-08-15 Fully revised and updated this text provides an authoritative account of all aspects of perioperative care for surgical patients *Joint Trauma System (JTS) Clinical Practice Guidelines* , Over 700 total pages The JTS Clinical Practice Guidelines CPGs are to the greatest extent possible evidence based The guidelines are developed using a rigorous process that involves subject matter experts in each field evaluating the best available data If you are interested in learning more about the process of developing CPGs please click this link CPG Development Process This guide for CPG development will help lead you through the methods used to develop and monitor CPGs The JTS remains committed to using the highest levels of analytical and statistical analysis in its CPG development process COMPLETE LIST OF CURRENT JTS CPGs JTS CPG Documentation Process 01 December 2017 Acute Extremity Compartment Syndrome Fasciotomy 25 July 2016 Acute Respiratory Failure 23 January 2017 Airway Management of Traumatic Injuries 17 July 2017 Amputation 1 July 2016 Anesthesia 23 Jun 2016 pdf Aural Blast Injury Acoustic Trauma and Hearing Loss 12 Aug 2016 Battle Non Battle Injury Documentation Resuscitation Record 5 Dec 13 Blunt Abdominal Trauma Splenectomy and Post Splenectomy Vaccination 12 August 2016 Burn Care 11 May 2016 Catastrophic Non Survivable Brain Injury 27 Jan 2017 Cervical Thoracolumbar Spine Injury Evaluation Transport and Surgery in Deployed Setting 05 August 2016 Clinical Mgmt of Military Working Dogs Combined 19 Mar 2012 Clinical Mgmt of Military Working Dogs Zip 19 Mar 2012 zip Damage Control Resuscitation 03 Feb 2017 DCoE Concussion Management Algorithm Cards pdf DoD Policy Guidance for Management of Mild Traumatic Brain Injury Concussion in the Deployed Setting Drowning Management 27 October 2017 Emergent Resuscitative Thoracotomy 11 June 2012 Fresh Whole Blood Transfusion 24 Oct 12 Frostbite and Immersion Foot Care 26 Jan 2017 Frozen Blood 11 July 2016 High Bilateral Amputations and Dismounted Complex Blast Injury 01 August 2016 Hyperkalemia and Dialysis in the Deployed Setting 24 January 2017 Hypothermia Prevention 20 Sept 2012 Infection Prevention in Combat Related Injuries 08 August 2016 Inhalation Injury and Toxic Industrial Chemical Exposure 25 July 2016 Initial Care of Ocular and Adnexal Injuries 24 Nov 2014 Intratheater Transfer and Transport 19 Nov 2008 Invasive Fungal Infection in War Wounds 04 August 2016 Management of Pain Anxiety and Delirium 13 March 2017 Management of War Wounds 25 April 2012 Neurosurgery and Severe Head Injury 02 March

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PG Textbook of Pediatrics Piyush Gupta, PSN Menon, Siddarth Ramji, Rakesh Lodha, 2015-08-31 The book attempts to provide the essential information that postgraduates throughout India need to capture to effectively address the health problems that our children and youth may face in the times to come Our objective is to be comprehensive yet concise and reader friendly embracing both the new advances in science as well as the time honored art of pediatric practice Both Indian and international experts in respective fields have provided the details which have been further scrutinized for exposition and usefulness to pediatric postgraduates by a chosen team of eminent academicians We have liberally included tables line diagrams images clinical photographs illustrative figures flowcharts and algorithms in the main text The book is divided in 10 major Parts and further arranged into 51 Sections to cover all aspects of postgraduate pediatric curriculum Themes which have major public health relevance for India are extensively covered It is almost impossible to cover all pediatric problems with the same degree of detail and hence a careful balance has been made in the details of description of diseases and their management to the needs of the students and to keep the book to a manageable size Take home messages are provided at the end of each chapter Selected recent references mostly leading articles reviews and position statements are provided for more detailed information if desired by the student or the teacher

Genetics Manual G. P. Redei, 1998 Redei has created an outstanding compendium of genetics Arranged as a dictionary the book is almost an encyclopedic collection of terms concepts The author has managed to define terms with appropriate mixtures of depth detail for the researcher along with clarity useful for the nonexpert Choice 1998

CURRENT Diagnosis and Treatment Surgery, 16th Edition Gerard M. Doherty, 2024-12-20 The evidence based point of care information you need to master the full scope of diseases and disorders most often treated by surgeons Organized by organ system Current Diagnosis and Treatment Surgery begins with the relationship between surgeons and their patients training and professionalism preoperative care postoperative care and surgical complications Subsequent chapters cover wound healing inflammation infection antibiotics fluid and electrolyte management and surgical metabolism and nutrition In addition to sections covering everything from head and neck tumors to hand surgery this comprehensive resource offers expert coverage of pediatric surgery oncology weight management organ transplantation and more Featuring 600 photographs and illustrations hundreds of chapter ending multiple choice review questions and the latest the latest research and discoveries Current Diagnosis and Treatment Surgery is designed to help you find all the answers you need quickly and easily

Platelets Alan D.

Michelson, 2013-01-09 Platelets winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine is the definitive current source of state of the art knowledge about platelets and covers the entire field of platelet biology pathophysiology and clinical medicine Recently there has been a rapid expansion of knowledge in both basic biology and the clinical approach to platelet related diseases including thrombosis and hemorrhage Novel platelet function tests drugs blood bank storage methods and gene therapies have been incorporated into patient care or are in development This book draws all this information into a single comprehensive and authoritative resource Highly Commended BMA Medical Book Award 2013 Internal Medicine Comprehensive and definitive source of knowledge about platelets for clinicians pathologists and scientists Integrates the entire field of platelet biology pathophysiology and clinical medicine Full color reference comprising 64 chapters 1400 pages and 16 000 references Contributions from 126 world leaders in their fields New chapters on topics such as the regulation of platelet life span platelet microRNAs GPVI and CLEC 2 monitoring of antiplatelet therapy novel antiplatelet therapy and making platelets ex vivo

Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book Nader Rifai, 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of laboratory procedures Reference ranges show new approaches for establishing these ranges and provide the latest information on this topic Lab management and costs gives students and chemists the practical information they need to assess costs allowing them to do their job more efficiently and effectively Statistical methods coverage provides you with information critical to the practice of clinical chemistry Internationally recognized chapter authors are considered among the best in their field Two color design highlights important features illustrations and content to help you find information easier and faster NEW Internationally recognized chapter authors are considered among the best in their field NEW Expert Consult features fully searchable text quarterly content updates clinical case studies animations podcasts atlases biochemical calculations multiple choice questions links to Medline an image collection and audio interviews You will now enjoy an online version making utility of this book even greater UPDATED Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value NEW Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation NEW Standard and

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