

Platelet Transfusion: A Clinical Practice Guideline From the AABB

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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 *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 **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 *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

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

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

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