MEMO

To: All
From: AABB Standards Development Department
Re: New Areas for AABB Standards

Executive Summary: AABB standard-setting activities and resulting publications have expanded into two new areas. The first, Standards for Out-of-Hospital Transfusion Administration Services, is intended to improve the quality of care for patients needing transfusion at locations outside the hospital or medical center. The second, Fundamental Standards for Blood Collection and Transfusion, is offered as a first step in the journey to a quality system approach by facilities worldwide, especially those in regions with extremely limited resources.

Standards for Out-of-Hospital Transfusion Administration Services, 1st Edition
The AABB Standards for Out-of-Hospital Transfusion Administration Services is the first edition of its kind. The decision to create this first edition stemmed from AABB’s continued goal of enhancing patient safety—whether it be in a traditional transfusion service or a facility that performs transfusions in a less traditional setting. These standards reflect activities by vascular access or infusion service providers in settings other than the hospital, including but not limited to: long-term care facilities, hospice, home-care settings, and other non-acute settings. These standards do not, however, address transfusions that take place in prehospital settings, such as ambulances or helicopter. To find out more about the Standards for Out-of-Hospital Transfusion Administration Services or the accompanying accreditation program, please contact accreditation@aabb.org.

Fundamental Standards for Blood Collection and Transfusion, 1st Edition
The Fundamental Standards for Blood Collection and Transfusion was created by the Global Standards Committee as a tool to provide users and facilities a first step toward incorporating quality system concepts and technical requirements in blood banking. The Fundamental Standards reflects the concerns and priorities as expressed by a diverse and recognized set of experts from the world over. Although the Fundamental Standards does not have an associated accreditation program, facilities that are not prepared for AABB accreditation can use this tool as a step toward developing a quality system that can serve as a foundation for progress in the future. The Fundamental Standards can be accessed and downloaded at no cost from the AABB website, www.aabb.org/fundamentalstandards.
Foreword

Once again, AABB is excited to bring its members and their colleagues resources to help them stay up to date with changes in the field, provide quality care to their donors and patients, and gain the knowledge needed to advance their careers.

The AABB commitment to member education remains a top priority, as evidenced by the many new or updated resources that have been added to our ever-growing library. The scope of topics is just as broad as the membership base, with a variety of delivery modes intended to appeal to multiple format preferences among readers. In addition to the wealth of information found in this catalog, the MarketPlace at www.aabb.org provides a gateway to additional resources available online.

AABB presents these high-quality and exceedingly relevant resources to support your work, your continuing education, and your career development. Staff specialists are available to assist you in obtaining the knowledge you need to succeed (see page 24). Enjoy your browsing!

Laurie Munk
Publications Director, AABB

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What’s New?

Be sure to check out the newest AABB publications, which are highlighted throughout these pages.

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Standards for Blood Banks and Transfusion Services, 31st edition  
(effective April 1, 2018)

The 31st edition of Standards for Blood Banks and Transfusion Services details the latest standards of practice in blood banking and transfusion medicine. As in the past, each chapter heading represents one of the Quality System Essentials and the quality standards are supplemented by technical requirements. The effective date of this edition is April 1, 2018.

- Standards 5.1.2.1 through 5.1.2.2 are new to the 31st edition, created to ensure that facilities located outside the United States participate in an external proficiency testing program where available.
- Standard 5.6.7.1 has been edited to mirror the requirements detailed in the Code of Federal Regulations, ensuring that the standard does not focus solely on hereditary hemochromatosis.
- Standards 5.15.1, 5.27.1, new standard 5.27.1.1, and standard 5.27.2 have been edited to include for the allowance of the use of low-titer group O Whole Blood in certain situations. New standard 5.27.1.1 requires that facilities have policies, processes, and procedures for the use of low-titer group O Whole Blood, as well as a defined cap on the number of units used in each event and requirements for adverse event monitoring.
- Standard 7.3 has been edited to require the use of “nationally recognized classifications” in place of “standardized definitions” for adverse events. This change should minimize the chance for conflicting or duplicative nomenclatures being used.
- Standard 7.3.1 is new to this edition and was created to allow facilities that operate in countries without nationally recognized classifications to use internationally recognized ones.

Standards for Relationship Testing Laboratories, 13th edition  
(effective January 1, 2018)

Standards for Relationship Testing Laboratories features requirements in areas such as employee qualification, facility monitoring of potentially fabricated documents, and the identification of non-chain-of-custody cases. Significant changes include:

- Standard 5.2.2.2 requires that all laboratories have policies, processes, and procedures to ensure that all collectors are trained.
- Standard 5.2.4.3 was created to allow for cases where a determination of relationship is being performed in a non-parenthood situation.
- Standards 5.3.8 through 5.3.8.5 have been added to cover two-party comparisons of full siblings, half siblings, avuncular, and single grandparent likelihood ratios.
- Standards 5.4.2 through 5.4.2.2 have been written to ensure that laboratories using closed systems have policies, processes, and procedures for their use.

Standards for Immunohematology Reference Laboratories, 10th edition  
(effective January 1, 2018)

Standards for Immunohematology Reference Laboratories relies on a matrix of quality management system and detailed operational requirements, such as those defining minimum antiserum resources. Significant changes in the 10th edition include:

- Standard 1.3.1 allows for there to be exceptions to existing policies, processes, and procedures on a case-by-case basis with the approval of the laboratory director.
- Standard 2.3 requires that all laboratories have a written plan for the implementation of allele determinations for RHCE variants.
- Standard 4.1.2.2 allows facilities located outside of the United States to use testing centers in their country that have been approved by their Competent Authority.

- Standard 5.1.5.2.1 requires laboratories that receive oral requests for blood components to record the request and maintain the record.

Why Do I Like Print?

“I can take it anywhere I travel, retrieve it from multiple devices (phone, tablet, or laptop), and get instant results to a search on the desired topic. No more forgetting or luging books around!”

—Rich Gammon, MD

Why Do I Like the Portal?

“I use both. I like having a printed copy for use in meeting rooms or parts of the lab that don’t have Internet access. It’s like having a security blanket.”

—J. Wade Atkins, MS, MT(ASCP)SBB, CQA(ASQ)
Standards for Blood Banks and Transfusion Services were developed to be consistent with those in the framework for the AABB. As with other AABB standards, this edition includes an overarching quality standards as well as specific technical standards. Unlike other AABB standards, this edition acknowledges three distinct PBM program activity levels that reflect the functions an individual facility may perform. Significant changes include:

- Standard 2.1.4 requires facility-defined educational requirements rather than facility-defined credentials.
- Standard 5.4 has been added to ensure that patient blood management programs create transfusion indications that are program-defined.
- Standard 5.7 requires that all programs define and review methods for minimizing blood loss during surgery and invasive procedures.
- Standard 6.2.3.2 has been included to ensure that patient records are linked to those contained in the laboratory information system.

**STANDARDS PORTAL:** AABB, 2018, digital edition
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Standards for Perioperative Autologous Blood Collection and Administration, 8th edition (effective January 1, 2019)

Standards for Perioperative Autologous Blood Collection and Administration addresses the collection and preparation of components from intra-operative blood recovery. Its goal is to maintain and enhance the quality and safety of care for autologous donor/patients and to provide a basis for the AABB Accreditation Program. Significant changes include:

- New Standard 4.1.2.2 allows facilities that perform testing to use a laboratory certified by their respective Competent Authority as opposed to a laboratory certified by CMS.
- Subnumber 10 has been added to Standard 5.3, which now requires that accredited perioperative programs define collection parameters for the minimum blood volume collected for processing.
- Standard 8.2 has been expanded to require that perioperative programs maintain patient identification records and sample collection and labeling records as a part of program monitoring.

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AABB Standards* are available in 4 formats to fit your needs

- Portal edition. This annotated, digital product provides links to all the information the committee members used in developing the requirements in each edition. Text of federal regulations, Association Bulletins and other AABB resources, and variances that have been granted are as close as a click away.
- Trial Portal. Not convinced? You can try the Portal for a few weeks at no charge.
- Print edition. Sometimes the quickest way to look up a requirement is to thumb through the pages of a traditional printed book. A hard copy is especially valuable when Internet access is not available or laptop batteries run down.
- Bundle. Face it. Sometimes, you just need both the Portal and the print. Together, they are available at a significant discount.

Ordering details can be found at www.aabb.org/marketplace.

*Fundamental Standards for Blood Collection and Transfusion is available only as a PDF download.**

**Standards for Out-of-Hospital Transfusion Administration Services, 1st edition (effective July 1, 2018)**

Standards for Out-of-Hospital Transfusion Administration Services (OHTAS Standards) details the latest standards for facilities other than the hospital that administer blood transfusion. As medical care advances and the population ages, the number and diversity of settings for blood transfusion are increasing. Long-term care facilities, infusion centers, hospices, and home-care agencies need to ensure that the quality of care with respect to transfusion medicine is not diminished for patients in these settings. These OHTAS Standards do not address transfusions that are administered in ambulances or helicopters before a person reaches the hospital.

As with other AABB Standards, the Quality System Essentials form the framework for the OHTAS Standards. The requirements in this document were developed to be consistent with those in the Standards for Blood Banks and Transfusion Services. In fact, users of both sets of Standards will notice some overlap in both the quality and the technical requirements of the two sets. This is intentional and reflects current practice.

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**Standards for a Patient Blood Management Program, 2nd edition (effective January 1, 2018)**

Standards for a Patient Blood Management Program (PBM Standards) can help facilities that are implementing or enhancing PBM efforts to have a solid foundation for maintaining and optimizing the care of patients who may or may not need transfusion. Like other AABB standards, this edition includes overarching quality standards as well as specific technical standards. Unlike other AABB standards, this edition acknowledges three distinct PBM program activity levels that reflect the functions an individual facility may perform. Significant changes include:

- Standard 2.1.4 requires facility-defined educational requirements rather than facility-defined credentials.
- Standard 5.4 has been added to ensure that patient blood management programs create transfusion indications that are program-defined.
- Standard 5.7 requires that all programs define and review methods for minimizing blood loss during surgery and invasive procedures.
- Standard 6.2.3.2 has been included to ensure that patient records are linked to those contained in the laboratory information system.

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PRINT EDITION:

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**AABB, 2017, digital edition**

**AABB, 2017, soft cover, 43 pages, ISBN 9781563959547**

**AABB, 2018, soft cover, 44 pages, ISBN 9781563959875**

**AABB, 2018, digital edition**

**AABB, 2018, soft cover, 65 pages, ISBN 9781563959295**
Standards for Molecular Testing for Red Cell, Platelet, and Neutrophil Antigens, 4th edition
(effective October 1, 2018)

The 4th edition of Standards for Molecular Testing for Red Cell, Platelet, and Neutrophil Antigens (MT Standards), effective October 1, 2018, contains requirements for facilities using molecular methods to predict blood group antigens on red cells, platelets, and neutrophils, as well as quality system requirements, operational standards, and a detailed list of inventory resources necessary for the identification of targeted nucleotides that encode these antigens.

Organized according to the Quality System’s Essentials quality template, the MT Standards addresses operational aspects such as test methods including Restriction Fragment Length Polymorphism Testing, DNA Testing for Nucleotide Sequence Determination or Single Nucleotide Polymorphism (SNP) Analysis, and DNA Array. The guiding principle of this document is to be consistent with available scientific information while focusing on patient advocacy and optimal care for donors. These MT Standards represent the minimum requirements under which a laboratory specializing in molecular testing should operate. Significant changes:

- New to the 4th edition, Standard 1.3.1 requires that all exceptions to policies, processes, and procedures be approved and justified by the medical director. This standard appears in many other sets of AABB Standards.
- Standard 3.4.2 has been edited to ensure that any device that has been repaired, retooled, or recalibrated has shown that an indication exists to perform look-back to determine when the previous acceptable check occurred.
- Standard 5.4.2 is new to the 4th edition, and recognizes that many laboratories are using their own laboratory-developed tests. Standard 5.4.2 ensures that laboratories maintain version control for the algorithms developed in genotype prediction.

Standards for Cellular Therapy Services, 8th edition
(effective July 1, 2017)

Standards for Cellular Therapy Services details the latest standards of practice for accredited cellular therapy facilities. Significant changes to the 8th edition include:

- Expanded requirements for proficiency testing to ensure that facilities outside of the United States (where access to external proficiency testing is limited) can comply.
- Standard 5.8, #6 requires all accredited laboratories to have implemented ISBT 128 labeling for all products by July 1, 2018.
- Standards for donor suitability and eligibility have been separated into two distinct sections (5.12.1 and 5.12.2, respectively) and expanded.
- Standard 5.12.2.11 requires that all facilities have policies, processes, and procedures in place to address all relevant emerging infectious diseases and that action is taken with regard to donor screening and testing processes.

Fundamental Standards for Blood Collection and Transfusion

The Fundamental Standards for Blood Collection and Transfusion was developed in the context of the global drive for quality in health care and internationally recognized principles of quality management. It is for educational purposes only—a resource on and introduction to AABB standard-setting as a process. It can also be a tool to assist facilities and personnel take the first step in incorporating quality concepts into blood banking. Notably, there is no accreditation program associated with these Fundamental Standards.

As in other sets of AABB Standards, these Fundamental Standards follow the Quality System Essentials framework. They are based on input from internationally recognized experts, public comment, and the scientific literature on techniques and applications with an emphasis on regions with limited resources.

DIGITAL EDITION: AABB, 2018, 79 pages, PDF file
Product Code: 183237DB | Member Price: FREE | Nonmember Price: FREE
Auditing in the Cellular Therapy Laboratory

By Suzanne H. Butch, MA, MLS(ASCP)CM, SBB, CQA(ASQ); Theresa A. Downs, MT(ASCP)SBB, CQA(ASQ); and Sandra K. Hoffman, MT(ASCP)SBB, CQA(ASQ)

This book describes how audits document compliance, enhance a quality system, and assist with error reduction in a cellular therapy laboratory. Some of the topics covered include auditing fundamentals, terminology, and types; audit preparation and planning; establishing an annual audit plan; auditor characteristics; collecting and documenting evidence; data analysis; and audit follow-up. Included are more than two dozen sample forms and templates specific to cellular therapy activities.

Product Code: 122009DB | Member Price: $40 | Nonmember Price: $55

CFR Mini-Handbook

The 2018 CFR Mini-Handbook contains the most important portions of the Code of Federal Regulations that relate to blood banking, transfusion medicine, and cellular therapy, including major updates announced by the FDA through July 2018. This handy resource eliminates the need to carry several unwieldy volumes, presenting the regulations as they appear in the original sources, while making them portable and easily accessible. Included are the regulations found in the following CFR parts:

- Part 493—Laboratory requirements.
- Part 1270—Human tissue intended for transplantation.
- Part 1271—Human cells, tissues, and cellular and tissue-based products.
- Part 210—Current good manufacturing practice in manufacturing, processing, packaging, or holding of drugs; general.
- Part 211—Current good manufacturing practice for finished pharmaceuticals.
- Part 600—Biological products; general.
- Part 600.21—Time of inspection. (New)
- Part 600.22—Duties of inspector. (New)
- Part 601—Licensing.
- Part 606—Current good manufacturing practice for blood and blood components.
- Part 607—Establishment registration and product listing for manufacturers of human blood and blood products.
- Part 610—General biological products standards.
- Part 630—General requirements for blood, blood components, and blood derivatives.
- Part 640—Additional standards for human blood and blood products.
- Part 660—Additional standards for diagnostic substances for laboratory tests.
- Part 820—Quality system regulation.
- Part 864.9165—Blood establishment computers. (New)
- Part 1271.26—Amending an establishment registration. (New)

Title 21
- Part 210—Current good manufacturing practice in manufacturing, processing, packaging, or holding of drugs; general.
- Part 211—Current good manufacturing practice for finished pharmaceuticals.
- Part 600—Biological products; general.
- Part 600.21—Time of inspection. (New)
- Part 600.22—Duties of inspector. (New)
- Part 601—Licensing.
- Part 606—Current good manufacturing practice for blood and blood components.
- Part 607—Establishment registration and product listing for manufacturers of human blood and blood products.
- Part 610—General biological products standards.
- Part 630—General requirements for blood, blood components, and blood derivatives.
- Part 640—Additional standards for human blood and blood products.
- Part 660—Additional standards for diagnostic substances for laboratory tests.
- Part 820—Quality system regulation.
- Part 864.9165—Blood establishment computers. (New)
- Part 1271.26—Amending an establishment registration. (New)

Title 42
- Part 493—Laboratory requirements.

PRINT EDITION: AABB, 2018, soft cover, ISBN 9781563959851
Product Code: 183888 | Member Price: $120 | Nonmember Price: $145

Auditing in the Donor Center

By Suzanne H. Butch, MA, MLS(ASCP)CM, SBB, CQA(ASQ); Theresa A. Downs, MT(ASCP)SBB, CQA(ASQ); and Tricia Sanders, MLS(ASCP)CM, SBB, CQA(ASQ)

The quality plan in the donor center documents the structure, responsibilities, and processes and procedures to support the objectives of donor and patient safety. Audits are used as part of the quality assurance system to verify that systems function as intended and that requirements are met. Included are more than two dozen sample forms and templates, including a sample PPE safety audit, sample “tracer” audits, sample data collection forms, a sample organizational chart and CLIA role audit, a newly changed or implemented procedures audit, a corrective action plan template, and a sample audit for supplies and reagents.

Product Code: 132007DB | Member Price: $40 | Nonmember Price: $55

Auditing in the Transfusion Service

By Suzanne H. Butch, MA, MLS(ASCP)CM, SBB, CQA(ASQ), and Theresa A. Downs, MT(ASCP)SBB, CQA(ASQ)

An audit can be defined as an investigation of whether work processes, systems, and products adhere to established criteria. After expanding on this definition and addressing other fundamentals of auditing, this book dives into the nuts and bolts of transfusion service audits. To help design, conduct, and follow-up on internal as well as external audit activities, the text is supplemented by over two dozen appendices of sample forms, templates, charts, and other tools, which can be customized for use at each user’s facility. Topics featured include:
- Auditing terminology, types of audits, sample criteria.
- Audit plan, audit templates, auditor characteristics.
- Using auditing tools, and collecting and documenting evidence.
- Analyzing and reporting results.
- Follow-up response to nonconformances.
- Lessons learned.

Product Code: 120009DB | Member Price: $40 | Nonmember Price: $55

Edited by John R. Wingard, MD; Dennis A. Gastineau, MD; Helen L. Leather, BPharm; Edward L. Snyder, MD, FACP; and Zbigniew M. Szczepiorkowski, MD, PhD, FCAP

This second edition offers comprehensive and practical information for health-care providers working in the field of hematopoietic stem cell transplantation (HSCT). It provides relevant information on all areas of HSCT, including indications for transplantation; donor and patient evaluation; conditioning regimens; collection, processing, and characterization of stem cell products; management of immunosuppressive therapy; evaluation and management of the most common complications during HSCT; supportive care management; common procedures; and aspects of follow-up care.

This edition’s content has been reorganized to facilitate finding topics of interest more easily, and the authors have emphasized an educational bent in presenting their material. Each of the topics in the first edition has been revised to ensure the content is up to date. New chapters covering nonmalignant diseases, haploidentical transplants, photopheresis, financial considerations, and iron overload have been added. An accompanying USB flash card gives you the entire book in electronic form plus bonus references and recommended readings.

Topics include:
- General principles.
- Pretransplant concerns.
- Donor selection.
- Graft preparation.
- Infusion and support.
- Complications.

Product Code: 143425 | Member Price: $156 | Nonmember Price: $192

ONLINE DIGITAL EDITION: AABB, 2014
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Product Code: 143425DB | Member Price: $156 | Nonmember Price: $192

See also:
- Auditing in the Cellular Therapy Laboratory, page 5
- Ethical Issues in Transfusion Medicine and Cellular Therapy, page 19

Cord Blood: Biology, Transplantation, Banking, and Regulation

Edited by Hal E. Broxmeyer, PhD

This volume provides the solid understanding needed to advance the clinical efficacy and relevance of cord blood (CB) transplantation. This comprehensive resource incorporates key CB developments into 39 chapters by experts in various areas of practice. Topics include:
- Stem/progenitor cells and their microenvironment.
- Use of prostaglandin E2, inhibition of cell surface protein CD26, expansion of short-term repopulating HSCs, use of fucosylation, and intrabone transplantation.
- Induced pluripotent stem cells, endothelial progenitor cells, and other cells.
- T helper cells, T regulatory cells, neonatal immune tolerance, natural killer cells, and T-cell-dependent immune competence.
- Malignant and nonmalignant disorders, double CB transplants, reduced-intensity conditioning regimens, determinants of engraftment, and underutilization of CB transplantation.


Circular of Information for the Use of Cellular Therapy Products (2018)

The Circular of Information for the Use of Cellular Therapy Products (2018) is intended to be an extension of the cellular therapy product label. It has been jointly prepared by a collaborative group of multiple nongovernmental organizations that represent the cellular therapy field. The US Food and Drug Administration and the Health Resources and Services Administration also participated in the development and review process.

DIGITAL EDITION: Free PDF can be downloaded from www.aabb.org/CTCircular
Cellular Therapy: Principles, Methods, and Regulations, 2nd edition

Edited by Ellen M. Areman, MS, SBB(ASCP), and Kathy Loper, MHS, MT(ASCP)

This manual was designed as a compendium of state-of-the-art practices and methods for developing and producing cellular therapy products, and for development and operation of a cellular therapy facility, whether research, translational, or clinical. Applicable to academia, government, and industry, it is also an essential reference for those in regulatory affairs and quality assurance as well as for laboratory technologists, managers, directors, physicians, and scientists. Through descriptions of the rationale and methodology for a variety of cell processing and evaluation techniques, it will assist laboratory staff in developing procedures that comply with applicable regulations and standards. In addition to numerous examples and templates for laboratory document preparation, several methods are provided that include a general overview of the critical steps, materials, and equipment used in each process. Each section has been compiled and edited by a team of experts in the specific subject matter. With regenerative medicine becoming more integrated into the field, considerations for regenerative therapies are also integrated within each section. Chapters cover:

• Regulatory considerations: Including updated FDA tips and perspectives, IND and BLA processes, sample outlines, etc. New in this edition: International regulation of cell therapy products.
• Quality assurance: Including process control, records, audits, equipment, personnel, validation, etc.
• Facilities: Aseptic processing, computer systems, safety, and procedures for facility control.
• Product and process development: New in this edition: Preclinical testing and early-phase trial development.
• Collection of cells: Marrow, apheresis, and cord blood techniques.
• Manufacturing methods: Updated techniques for cell separation, cell expansion, and graft engineering including production of dendritic, mesenchymal, pancreatic islet, iPSC, and other therapeutic cells.
• Handling of processed products: Including shipping and handling; product release; patient preparation, infusion, and reactions; etc.
• Biorepositories: Including operational, regulatory, and ethical considerations for storage of research samples.
• Product characterization: Including assessments of viability, potency, cytotoxicity, contamination, testing, etc, as well as validation of test methods.

Product Code: 153420 | Member Price: $195 | Nonmember Price: $225
DIGITAL EDITION: AABB, 2016, ISBN 9781563959264
Product Code: 153420B8 | Member Price: $215 | Nonmember Price: $245
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Product Code: 153411 | Member Price: $310 | Nonmember Price: $355

Basic Principles in Flow Cytometry

By Vasiliki E. Kalodimou, MSc, PhD

This book provides a fundamental understanding of the evolving technology in cell enumeration and discusses the principles of flow cytometer operation. Unlike other laboratory devices, flow cytometers present the technologist with many different settings for their use. Key topics include:

• Flow cytometry overview.
• Fluorescence, dyes, and fluorescence compensation.
• DNA analysis and data analysis.
• Cell proliferation, death, and apoptosis.
• Applications in clinical practice.
• Quality control.

Product Code: 132087 | Member Price: $38 | Nonmember Price: $46

BUY A BUNDLE AND SAVE!
Practical Handbook of Cellular Therapy Cryopreservation & Basic Principles in Flow Cytometry
BOTH BOOKS: Product Code: 152916 | Member Price: $77 | Nonmember Price: $88

Practical Handbook of Cellular Therapy Cryopreservation

Edited by Michael H. Creer, MD; Aby J. Mathew, PhD; and M. Victor Lemas, PhD

The increasing use of traditional hematopoietic cell therapies—as well as the emerging potential of novel regenerative medicine therapies—highlights the importance of the cryopreservation process and its impact on cell yield, viability, and function. This Practical Handbook of Cellular Cryopreservation explains the “nuts and bolts” of the cryopreservation process from beginning to end: which freezers are used for which products, the fundamentals of freezing cells without damage, how to read freezing curves, how to handle products after an abnormality occurs, when to validate/verify/qualify, and so much more. This volume is packed with color illustrations that bring additional clarity to these detailed discussions.

Product Code: 152492 | Member Price: $50 | Nonmember Price: $70

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Patient Blood Management: Multidisciplinary Approaches to Optimizing Care

Edited by Jonathan H. Waters, MD, and Steven M. Frank, MD

This text emphasizes the importance of combining multiple strategies from numerous disciplines, and offers practical information as well as the theoretical foundation for patient blood management (PBM) approaches to patient care. Authors of the 22 chapters are experts who implement PBM concepts on a daily basis in their respective practices. This is an essential resource for surgeons, anesthesiologists, perfusionists, transfusion medicine specialists, pharmacists, nurses, and clinicians.

Topics include:
- Rationale and economics of PBM.
- Developing a PBM program.
- Preoperative patient evaluation.
- Perioperative blood recovery.
- Topical hemostatics.
- Point-of-care testing.
- Perioperative management in selected specialties: liver surgery, obstetrics, orthopedics, pediatrics, and cardiac surgery.

Product Code: 162185 | Member Price: $130 | Nonmember Price: $150

Product Code: 162185DB | Member Price: $130 | Nonmember Price: $150

PBM Program Toolkit: Quality Manual

By Addisalem Taye Makuria, MD

A quality manual is required for implementation of a quality management system, to ensure that a program is not only well-run, but is also compliant with regulatory or accreditation requirements. This toolkit is a template, providing the framework for quality manual content as well as some sample language and listings of documents that demonstrate the kind of information a program should include. It is consistent with AABB Standards for a Patient Blood Management Program, and will be a huge time-saver for users tasked with creating or improving their quality manual.

The template is organized after the 10 quality system essentials that form the core of AABB Standards. Included with the lay-flat print copy is a USB flash card loaded with the same content. Users are encouraged—even requested—to make a working copy of the master file; customize it with facility- and program-specific details; and then review, authorize, and make it part of the program’s living documents.

PRINT EDITION: AABB Press, 2018, spiral-bound cover, 33 pages, USB flash card included, ISBN 9781563959769
Product Code: 182891 | Member Price: $95 | Nonmember Price: $130

Case Studies in Patient Blood Management

Edited by Irwin Gross, MD, and Mary Lieb, MT(ASCP)SBB, CQA(ASQ)

Jointly developed by AABB and SABM, this collection of clinical scenarios is a resource for anyone interested in patient-centered care—including clinicians, nurses, laboratory technologists, and pharmacists. Other health-care personnel such as ethicists and risk managers will also benefit. Each scenario features learning objectives, a clinical situation, a discussion of patient blood management options, the evidence that supports each PBM approach discussed, and a listing of key points and references. Within that framework, each expert author contributes to a rich diversity of PBM options that are intended to stimulate thought and discussion, leading to improved patient care and clinical outcomes. Scenarios include:
- Orthopedic surgery patient.
- Cardiovascular surgery patient.
- Anemic obstetric patient.
- Gynecologic oncology patient requiring surgery.
- Hematology/oncology patient.
- Jehovah’s Witness patient.
- Bleeding patient who is taking target-specific oral anticoagulants.
- Bleeding patient taking antiplatelet drugs.
- Warfarin reversal in the hemorrhaging patient.
- Anemia in the critically ill ICU patient.

Product Code: 156897 | AABB and SABM* Member Price: $110 | Nonmember Price: $145

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More Case Studies:

Antibody Identification: Art or Science? A Case Study Approach, page 15
Investigating Positive DAT Results: A Case Study Approach, page 14
Transfusion Medicine’s Emerging Positions: Transfusion Safety Officers and Patient Blood Management Coordinators

Edited by Kathleen E. Puca, MD, and Susan T. Johnson, MSTM, MT(ASCP)SBB

As health-care organizations become more aware of the value and impact of patient blood management (PBM), there is a growing need for individuals with the knowledge and training required to manage PBM programs and address the full spectrum of transfusion safety. This book is intended to provide guidance on such positions (whether hospital-based or blood-center-based)—the professionals who make good candidates, the scope of their responsibilities, their key role in improving patient outcomes, and the influence they have on various hospital departments. Also included are sample job descriptions and a template for a business case for such positions. A CD-ROM is included, containing job descriptions ready for customization by each facility.

Product Code: 132219 | Member Price: $75 | Nonmember Price: $95

Decision Making in Transfusion Medicine

By Eleftherios C. Vamvakas, MD, PhD, MPH

This evidence-based book is intended to serve one of the recurring principles enunciated by the FDA—that decision making must be transparent. The book discusses both the evidence supporting allogeneic blood transfusion and the hotly debated policy alternatives proposed for avoiding its risks. Topics include:
- The precautionary principle vs evidence-based medicine.
- Causes of, and strategies to reduce, transfusion-related mortality.
- Emerging transmissible infections.
- Pathogen reduction.
- MSM donor deferrals.
- Patient blood management.
- Bonus CD-ROM containing three chapters from Evidence-Based Practice of Transfusion Medicine.

Product Code: 112024DB | Member Price: FREE | Nonmember Price: $40

Getting Started in Patient Blood Management

By James P. AuBuchon, MD, FCAP, FRCP(Edin); Kathleen E. Puca, MD, MT(ASCP)SBB, FCAP; Sunita Saxena, MD, MHA; Ira A. Shulman, MD, FCAP; and Jonathan H. Waters, MD

After reviewing the rationale for limiting transfusion, this primer thoroughly discusses the five major concepts in patient blood management: 1) limiting blood loss through phlebotomy for testing, 2) optimizing patient hemoglobin levels, 3) using autologous donation and intraoperative blood recovery techniques, 4) minimizing perioperative blood loss, and 5) making evidence-based hemotherapy decisions. Also included are practical suggestions for taking initial positive steps toward program implementation; sample forms and reports; and helpful print and online resources.

Product Code: 112024DB | Member Price: FREE | Nonmember Price: $40


Edited by Jonathan H. Waters, MD; Aryeh Shander, MD; and Karen E. King, MD

Published jointly by AABB and SABM, this Handbook contains essential information for those who recognize the duty to consider all alternatives in care, both to select transfusion and to avoid transfusion. The broad range of material discusses Jehovah’s Witness patients, acute normovolemic hemodilution, hyperbaric oxygen therapy, artificial oxygen carriers, recombinant Factor VIIa, anemia prevention, and a host of other aspects of this growing field. It is small enough to fit in a lab coat pocket, yet comprehensive enough to answer many of the questions that arise in daily practice.

Product Code: 133022 | AABB and SABM* Member Price: $50 | Nonmember Price: $70
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Prophylactic Platelet Transfusion Data Card
(Set of 10)
This Data Card (in sets of 10) is a convenient resource that folds to fit conveniently into a lab coat pocket for quick reference. Laminated for durability, the card concisely summarizes evidence-based clinical practice guidelines for the administration of platelets in a variety of adult patient populations. Included on the card is a guide to the evaluation of the evidence leading to the recommended guidelines. Also on the card are storage, transport, and expiration criteria for some of the most frequently transfused platelet products.

PRINT EDITION: AABB, 2015, laminated cards, ISBN 9781563959189

The Transfusion Committee: Putting Patient Safety First, 2nd edition
Edited by Sunita Saxena, MD, MHA
Is your facility struggling to review blood usage without a transfusion committee, blood utilization review committee, or similar group? This book will help you recognize the importance of a transfusion review committee in the evolution toward a patient blood management environment. Building on the solid foundation of the popular first edition, this revision adds new material throughout, as well as two new chapters. A CD-ROM is included, containing templates and forms ready for customization by each facility. Topics include:
• Committee justification, organization, and function.
• Patient blood management and clinical practice guidelines.
• Regulatory agencies and accrediting organizations.
• Transfusionist and nurse participation (new).
• Quality tools for the committee.
• Reporting and system improvement (new).

Product Code: 132075 | Member Price: $95 | Nonmember Price: $120

RBC Transfusion Data Card
(Set of 10)
This Data Card is distilled from the AABB clinical practice guidelines published in late 2016. Laminated for durability, the card concisely summarizes evidence-based restrictive strategies for Red Blood Cell (RBC) transfusion in both adult and pediatric patients. Included are indications, contraindications, and key points on administration, as well as references. Also included is a guide to the evaluation of the evidence used to develop the recommended strategies.

Product Code: 173201 | Member Price: $25 (set) | Nonmember Price: $35 (set)

See also Standards:
- Standards for Perioperative Autologous Blood Collection and Administration, 8th edition, page 3

Guidelines for Patient Blood Management and Blood Utilization
Developed for the Clinical Transfusion Medicine Committee and the Transfusion Medicine Section Coordinating Committee by Joanne Becker, MD, and Beth Shaz, MD
This Guideline assists facilities in developing strategies that provide for the appropriate use of blood and the use of alternatives that help to reduce or avoid the need for allogeneic blood transfusion. A multidisciplinary approach is advocated that includes the use of blood component guidelines, pharmaceutical preparations to minimize blood loss, blood conservation methods, and blood utilization review practices.

Product Code: 113410 | Member Price: $35 | Nonmember Price: $47
Product Code: 113410DB | Member Price: $35 | Nonmember Price: $47

PBM Approaches to Coagulopathy
By John R. Hess, MD, MPH, FACP, FAAAS, and Aaron S. Hess, MD, PhD
This timely monograph helps those who wish to apply the principles of patient blood management in the setting of clinical bleeding. The text covers the multiple causes of bleeding and the prevention of unnecessary transfusions for both medical and surgical patients affected by coagulopathy. Also discussed are the function and effectiveness of blood components used in this setting, drug therapy alternatives, managing the prevention/treatment of clinical bleeding, and practice guidelines (including those in the Choosing Wisely campaign). Case studies and helpful references provide additional value. Intended for physicians, advance-duty nurse practitioners, and nurses—anyone who needs to make an informed decision on blood use.

Coming soon!

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General


Edited by Mark K. Fung, MD, PhD; Anne F. Eder, MD, PhD; Steven Spitalnik, MD; and Connie M. Westhoff, PhD, MT(ASCP)SBB

The Technical Manual, AABB’s most popular text, is a must-have resource that helps newcomers and seasoned professionals alike find the information they need to meet the challenges they face. The entire spectrum of blood collection and transfusion is covered:
- Quality issues, blood collection and processing, blood groups, antigen/antibody testing, clinical transfusion practice (including special situations and patients), and preventing adverse reactions. Chapter experts have updated this edition in direct response to results of a reader survey that asked about the most valuable chapters, preferred formats, how the manual is used, etc. What’s new:
  - Enhanced suite of chapters related to patient blood management to reflect the broadening of PBM implementation.
  - Content more inclusive of practices outside the US.
  - New chapter on hemovigilance and its benefits.
  - More focused cellular therapy content.
  - Expanded information on massive transfusion.
  - Consolidation of chapters on whole-blood and apheresis donation to eliminate redundancy.
  - Reorganized content on transfusion service activities and concerns to improve ready access to key information.

Methods are provided in SOP format on the accompanying USB flash card for easy adoption and customization by facilities.

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Product Code: 173690 | Member Price: $272 | Nonmember Price: $408

How Do I . . . ?
(Ten Years of Practical Advice)

Edited by Beth Shaz, MD

Readers of TRANSFUSION report that their favorite nonresearch content in the journal is the “How Do I . . . ?” series. This compilation brings together a decade of articles from the series, which began in 2006. In this convenient volume, experienced colleagues describe how they manage nearly 60 different situations from the laboratory, surgical suite, collection facility, and clinical care areas.

Product Code: 153927 | Member Price: $110 | Nonmember Price: $130

Transfusion Therapy: Clinical Principles and Practice, 3rd edition

Edited by Paul D. Mintz, MD

Filling a niche between the handbook and weightier compendia, this edition reflects current practice in transfusion therapy and provides guidance for prescribing blood components and derivatives. In addition, chapters cover clinical practice, adverse events, and quality assurance. Enhanced content covers discussions of transfusion therapy in surgery, pediatric transfusion, transfusion-induced immunomodulation, transfusion in stem cell transplantation, and Rh Immune Globulin therapy. Highlights include:
- Transfusion therapy in critical care.
- Transfusion therapy in trauma and massive transfusion.
- Pathogen reduction and inactivation.
- Alloimmunization to red cell antigens.

Product Code: 102004 | Member Price: $180 | Nonmember Price: $220
Product Code: 102004 | Member Price: $150 | Nonmember Price: $178

Collected Questions and Answers, 12th edition

By Mark E. Brecher, MD, and Jay S. Raval, MD

Many of the most perplexing issues in patient blood management, transfusion medicine, and cellular therapy fall into a “grey” area where regulatory documents or comprehensive textbooks cannot offer clear-cut guidance. The authors of this volume probed the far corners of the medical literature to bring you answers to questions submitted by thoughtful members, posed by curious staff, and collected by the authors themselves in everyday situations. This edition presents answers (with references—Internet links where possible) to questions on more than 100 topics relevant in today’s laboratory and clinical environments.

PRINT EDITION: AABB, 2018, soft cover, 144 pages, ISBN 9781563959844
Product Code: 183106 | Member Price: $80 | Nonmember Price: $80

“...This book works well as shelf reference, yet it can also be read as a whole rather quickly and easily. I recommend this book to those developing institutional or departmental transfusion policies, who may appreciate a practical text without an exhaustive exposition of historical information or laboratory technique. In sum, the 3rd edition is an excellent and unique resource that enables confident evidence-based clinical decision-making.”

—Timothy Hilbert, MD, PhD, JD
Clinical Research: Understanding the Methodology Toolbox

Compiled by Nancy Heddle, MSc, FCSMLS(D)

This book provides guidance on how to design, perform, and publish the clinical research needed to fill some of the voids in the scientific literature. Written by recognized experts, these articles originally appeared as “Clinical Research Focus” contributions to TRANSFUSION. They are gathered here in one convenient, timeless resource to encourage and assist investigators and authors in conducting clinical research, analyzing the data, and reporting on outcomes.

Product Code: 123069 | Member Price: $42 | Nonmember Price: $58

Platelet Transfusion Therapy

Edited by Joseph Sweeney, MD, FACP, FRCPATH, and Miguel Lozano, MD, PhD

Written by a global team of leading experts, this unique text covers issues from processing and storage to clinical indications, dosing, and adverse effects. This is the go-to reference on platelets for clinicians and technologists alike. Key topics include:
• Platelet metabolism.
• Production methods; pathogen reduction.
• In-vivo and in-vitro evaluation.
• Prophylactic, active bleeding, and refractory settings.
• Neonatal transfusion.
• Antigen compatibility.
• Adverse reactions.
• Alternatives to transfusion.

Product Code: 132019 | Member Price: $142 | Nonmember Price: $168

Immunoglobulin Therapy

Edited by Alan H. Lazarus, PhD, and John Semple, PhD

Simply put, this text contains all the information you need most about intravenous immunoglobulin (IVIG) products and their use in clinical practice. This collaboration of international experts has resulted in the most comprehensive resource available in an area of transfusion medicine that is rapidly growing. Chapters cover:
• Basic concepts and practical considerations.
• Manufacturing concepts.
• Mechanisms of action.
• Use of IVIG in hematology, neurology, infectious diseases, systemic inflammatory response syndromes, and other diseases.
• Use of anti-D in hemolytic disease of the fetus and newborn and in autoimmunity.
• Use of monoclonal antibodies in hematology and oncology

Product Code: 102166 | Member Price: $100 | Nonmember Price: $120

BUY A BUNDLE AND SAVE!
Prophylactic Platelet Transfusion Data Card (Set of 10) & Platelet Transfusion Therapy

The Physician’s Handbook Series

For 35 years, the books in the Physician’s Handbook Series have been handy, reliable, and valued resources for thousands of practitioners in the transfusion medicine field. Not only physicians, but also nurses, technologists, and other specialists have depended on one or more books in the series as their “go-to” or first reference. The solid content is informative and the references put readers on the right track to further research. The series currently includes:
• Blood Transfusion Therapy: A Physician’s Handbook (see page 13)
• Pediatric Transfusion: A Physician’s Handbook (see page 17)
• Perioperative Blood Management: A Physician’s Handbook (see page 9)
• Therapeutic Apheresis: A Physician’s Handbook (see page 16)


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Components


Edited by Nick Bandarenko, MD, and Karen E. King, MD

This Handbook has been thoroughly reviewed and updated to reflect the most recent trends in transfusion medicine practice. The compact volume, which fits conveniently in a lab coat pocket, is packed with comprehensive discussions of blood components, plasma derivatives, transfusion practices, hemostatic disorders, and adverse effects of transfusion, as well as succinct overviews of therapeutic apheresis, massive transfusion, and patient blood management essentials. References for each topic are extensive. New this edition:

• Updated and consolidated blood component discussion and overview.
• Expanded information on prothrombin complex concentrates.
• Entire new chapter on massive transfusion.
• Expanded information on anticoagulant drugs.
• Expanded treatment of patient blood management, including thromboelastography for transfusion decision making.
• Indications for apheresis updated to reflect latest ASFA guidelines.

Product Code: 173016 | Member Price: $35 | Nonmember Price: $45

Blood Transfusion Therapy Data Card (Set of 10)

The Blood Transfusion Therapy Data Card is a handy reference that folds down to a 4” x 6” size and can be carried easily in a lab coat pocket. Laminated for durability, the Data Card features:

• Information on the proper administration of blood components.
• A list of available components with their composition and indications for use.
• An outline of treatment for acute transfusion reactions.
• Information on prothrombin complex concentrates, fibrinogen concentrate, Factor XIII concentrate, protein C concentrate and activated prothrombin complex concentrates.

Product Code: 173103 | Member Price: $35 (set) | Nonmember Price: $45 (set)

Circular of Information for the Use of Human Blood and Blood Components (2017) (Set of 50)

The Circular is an extension of the blood container label required by FDA regulations and is recognized as acceptable by the FDA. Prepared by AABB, the American Red Cross, America’s Blood Centers and the Armed Services Blood Program, this Circular describes available components, actions, indications, contraindications, dosage and administration, side effects and hazards. Included is a comprehensive but concise table summarizing indications, benefits, and precautions for blood. Also included is information on newly approved plasma components.

Product Code: 173011 | Member Price: $45 (set) | Nonmember Price: $55 (set)

NEW OPTION!

USB DIGITAL EDITION: AABB, 2018, includes FDA-approved guidance on when digital version may be used, as well as three sets of 50 of the print brochures.
Product code: 173018 | Member Price: $165 | Nonmember Price: $185


Edited by the contributing editors to Blood Transfusion Therapy: A Physician’s Handbook, 12th edition

This popular 8.5” x 11” flip chart on safe blood administration has been updated and redesigned. Its multiple tabs lead users to sections on transfusion safety, acute transfusion reactions, and the safe administration of red cells, platelets, plasma, plasma derivatives, cryoprecipitate, and granulocytes. Colorful graphics and bullet points provide quick information on the do’s and don’ts of:

• Filters.
• Blood warming.
• Pumps.
• Compatible fluids.
• Infusion times.
• Temperature limits.
• Compatibility.
• And more!

Product Code: 173109 | Member Price: $40 | Nonmember Price: $50

See also:

RBC Transfusion Data Card, page 10
Prophylactic Platelet Transfusion Data Card, page 10
Pediatric Hemotherapy Data Card, page 17

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Immunology/Serology

Bloody Brilliant! A History of Blood Groups and Blood Groupers

By Steven R. Pierce, SBB(ASCP), and Marion E. Reid, PhD, FIBMS, DSc(Hon)

“The story of blood groups always begins in Vienna with Karl Landsteiner.” So begins this uniquely fascinating tale of how the blood groups were discovered and the interesting people who made those discoveries. Meticulously referenced, this volume is also lavishly illustrated as it recalls the progression of knowledge in blood grouping that continues today. This is the story not only of Landsteiner, Levine, Wiener, Race, Sanger, and other early giants, but also of Mollison, Garratty, Marsh, Tippett, Issitt, Judd, and many, many others who have made their mark on the profession and trained others who even now are doing the same.

Chapters include:
• Out Damned Spot! Forensic Applications of ABO
• Who’s Your Daddy? ABO in Paternity Testing
• Britain, Blood, and Bombs, 1930-1945
• A Rh-ose by Any Other Name
• Technologists to the Fore
• 28 chapters in all!

Product code: 162963 | Member Price: $180 | Nonmember Price: $210

Judd’s Methods in Immunohematology, 3rd edition

By W. John Judd, FIBMS, MI-Biol; Susan T. Johnson, MSTM, MT(ASCP) SBB; and Jill Storry, PhD, FIBMS

This well-respected compilation has stood for many years as one of the most widely used references for serologic methods. Topics include the detection, identification, and investigation of antibodies; perinatal testing; ABO typing problems; reagent preparation; and more. The accompanying CD-ROM contains the SOPs in a format that can be customized by facilities or used as is.

Product Code: 082190 | Member Price: $115 | Nonmember Price: $140 $77

Investigating Positive DAT Results: A Case Study Approach

Authors: Susan T. Johnson, MSTM, MT(ASCP)SBB; Janis R. Hamilton, MS, MT(ASCP)SBB; and Sally V. Rudmann, PhD, MT(ASCP)SBB

The case studies in this book can help sharpen your skills for investigating a positive DAT result. Written by experienced serologists, the case studies in this volume provide a realistic testing situation for those professionals who investigate hemolytic transfusion reactions. Each case opens with a clinical scenario and results of initial laboratory testing, followed by multiple-choice questions that take the reader through further testing options and protocols for resolution. The cases also include detailed feedback for correct, as well as incorrect, choices made. Well-suited to both classroom and individual study, the book includes access to a set of the questions without the answers for a realistic simulation.

Product Code: 152770 | Member Price: $95 | Nonmember Price: $125

Product Code: 152770DB | Member Price: $95 | Nonmember Price: $125

“What a joy it is to read this unique and informative history! In addition to being a formal history of blood group serology, this volume is a scrapbook of snapshots, personal recollections, and intimate profiles of the personalities behind the serologic discoveries of the 20th century. It is a valued resource not only for our generation, but for those who follow.”

—S. Gerald Sandler, MD, FCAP, FACP
Guidelines for Antibody Identification

Developed for the Scientific Section Coordinating Committee by Marilyn Moulds, MT(ASCP)SBB, and Mary Kowalski, MT(ASCP)SBB

This Guideline is intended to assist transfusion services with the identification of antibodies in patients with a reactive pretransfusion antibody detection test. Its major sections address 1) routine testing and interpretation guidelines, 2) additional guidance and testing, and 3) unusual antibody identification situations. Instructive case studies accompany each section, and more guidance is included in several appendices. Although this resource can be used as a training tool, those readers who are already familiar with related material in the AABB Technical Manual will derive the most benefit. The scope and depth of the content will appeal not only to facilities and technologists who work with a single antibody identification panel using the same method employed for antibody detection, but also to laboratories that use multiple panels and special testing methods.

Product Code: 1030012DB | Member Price: $40 | Nonmember Price: $55

Antibody Identification: Art or Science? A Case Study Approach

By Janis R. Hamilton, MS, MT(ASCP)SBB; Susan T. Johnson, MSTM, MT(ASCP)SBB; and Sally V. Rudmann, PhD, MT(ASCP)SBB

Written by practicing serologists and educators, these case study simulations examine techniques for alloantibody identification including use of chemicals, inhibition, adsorption, and adsorption/elution. Each case begins with a clinical scenario and initial test results, which are followed by a series of multiple-choice questions that offer testing options and protocols for resolution. Along the way, the reader is provided with detailed feedback designed to enhance reflection and critical thinking. Equally suited to classroom or individual study, the book includes access to a set of the questions without the answers, to provide a realistic testing situation.

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Product Code: 132020DB | Member Price: $120 | Nonmember Price: $168

Relationship Testing 1.0

By Robert E. Wenk, MD, MS\textsubscript{HGEN}

“A resident called to say that his wife had just delivered a baby. I congratulated him, but his response was immediate and unhappy: ‘Not so fast! Tell me if two people who are blood type O can have a type A baby.’ I mumbled something about the Bombay blood group, but we both knew the truth.” This primer on relationship testing may begin with paternity issues, but it also discusses other uses of the science. Automation in the laboratory has enabled rapid and accurate test results, with computers processing the calculations for relationship probabilities. Unfortunately, these advances have come at the expense of our understanding of the testing logic that underlies those results. This concise text fills the gap in the current literature by providing a fundamental explanation of relationship testing in easily understood terms. Chapters address the basic science, how statistics are used, how the logic of relationship testing evolved, the types of testing used for paternity, and testing for other blood relatives. Suggested readings and a helpful glossary are included.

Product Code: 182871 | Member Price: $75 | Nonmember Price: $105
Product Code: 182871DB | Member Price: $75 | Nonmember Price: $105

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Product Code: 182877 | Member Price: $120 | Nonmember Price: $168

“It is amazing to me that a book of less than 200 pages can cover pretty much every aspect of the field in detail. From ordinary civil cases of questioned parentage through incest and to the much rarer instances of chimeric children or parents, the analyses are concise and fairly presented. In addition, Wenk’s medical expertise bears authoritatively on the field of human reproduction, human chimera, twinning, blood chemistry, and cytology, among other areas.”

—Charles M. Kelly, PhD

See also:

Standards for Immunohematology Reference Laboratories, 10th edition, page 2
Standards for Molecular Testing for Red Cell, Platelet, and Neutrophil Antigens, 3rd edition, page 4
Apheresis

**Therapeutic Apheresis: A Physician’s Handbook, 5th edition**

Edited by Kendall Crookston, MD, and Karen E. King, MD

Published jointly by AABB and ASFA, this *Handbook* provides a thorough yet succinct account of the most commonly practiced apheresis procedures and indications for their use—including cytapheresis, therapeutic plasma exchange, red cell exchange, and selective depletion. It also provides disease-specific content, as well as pediatric-specific content, that is of great use to physicians who order or administer such therapies, as well as technical content that assists other health-care personnel who perform the actual procedures.

**PRINT EDITION:** AABB/ASFA, 2017, soft cover, 379 pages, ISBN 9781563959318

Product Code: 173025 | AABB and ASFA* Member Price: $70 | Nonmember Price: $95

*Please call +1.866.222.2498 to receive your discount.

**Apheresis: Principles and Practice, 3rd edition**

Edited by Bruce C. McLeod, MD; Zbigniew M. Szczepiorkowski, MD, PhD, FCAP; Robert Weinstein, MD; and Jeffrey L. Winters, MD

With several new chapters and expansions of previous chapters, anyone with specific questions about the scientific, technical, and practical aspects of apheresis can discover the answers within this volume. Each chapter has been fully updated with the results of relevant clinical studies published since the second edition was released. Highlights include:

- Comprehensive account of the uses for apheresis instruments.
- History of both donor and patient apheresis.
- Descriptions of new instruments intended for multiple component donations and a new device for photopheresis.
- New chapter on therapeutic apheresis in the context of organ transplantation.
- Greatly expanded section on stem cell transplantation.

**PRINT EDITION:** AABB Press, 2010, hard cover, 715 pages, ISBN 9781563953057

Product Code: 102003 | Member Price $198 | Nonmember Price $228

**DIGITAL EDITION:** AABB Press, 2010, ISBN 9781563959592

Product Code: 102006DB | Member Price $165 | Nonmember Price $195

AABB On-Demand eCasts are excellent educational resources covering everything from basic courses to cutting-edge content. These flexible, self-paced programs are available whenever you want them, wherever you are, and whatever device you choose for viewing. Some of our most popular On-Demand eCasts are:

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- Addressing Common Citations from AABB and CAP
- Immunohematology Boot Camp Series
- Inventory Management: The Rural Facility, the Urban Facility, and the Blood Center
- New Developments in Platelet Transfusion Safety (PRT, Secondary Testing “7-day Platelets”)
- Pathogen Reduction: Blood Center and Hospital Perspectives and Lessons Learned

Institutions and individuals can register for eCasts up to 34 months after the “go-live” date. AABB has introduced a tiered pricing structure to discount the cost of programs over time from the original program “go-live” date.

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*Applicable to single or group viewing of most On-Demand eCasts. Prices and access periods subject to change.

In addition to the competitive pricing, these programs are eligible for continuing education credit. A complete listing of available programs and ordering details can be found at:

[www.aabb.org/eCastOn-Demand](http://www.aabb.org/eCastOn-Demand)
**Special Patients/Situations**

**Pediatric Transfusion: A Physician’s Handbook, 4th edition**

*Edited by Edward C.C. Wong, MD; Susan D. Roseff, MD; and Karen E. King, MD*

This concise yet comprehensive reference book is for all practitioners who transfuse neonatal and pediatric populations. It is invaluable for physicians treating patients in the hospital or those answering questions while on call in the blood bank. Written by experts who share a wealth of practical experience, this book presents information that typically would require multiple volumes of text. Charts and tables outline information concerning volumes of blood components and doses of medication for neonatal and pediatric patients. This edition includes a new chapter addressing patients with special transfusion needs, including neonates, patients undergoing extracorporeal membrane oxygenation, cardiovascular surgery patients, sickle cell disease patients, and other pediatric patients who require chronic transfusion support.

**PRINT EDITION:** AABB, 2014, soft cover, 266 pages, ISBN 9781563959035

Product Code: 143020 | Member Price: $39 | Nonmember Price: $49

**Neonatal Transfusion Guidance**

**Developed for the Transfusion Medicine Section Coordinating Committee By Steven Sloan, MD, PhD; Cassandra Josephson, MD; Mark K. Fung, MD, PhD; and Susan D. Roseff, MD**

The unique requirements for neonatal transfusion affect many processes and procedures in the continuum from collection and selection of blood components to the methods of administration. This publication describes many of these fine points, including the importance of communication between clinical staff, laboratory personnel, and the neonate’s parents; component processing techniques such as irradiation, filtration, and preparation of aliquots; effects of component storage and preservation; and blood administration concerns (e.g., venous access, infusion pumps, blood warming).

**DIGITAL EDITION:** AABB, 2012, 32 pages, ISBN 9781563958489

Product Code: 123089DB | Member Price: $35 | Nonmember Price: $45

**Did You Know?**

Several of the AABB resources listed in this catalog (and those additional ones that are accessible via the website MarketPlace) are free.

- Circular of Information for the Use of Cellular Therapy Products
- Disaster Operations Handbook: Coordinating the Nation’s Blood Supply During Disasters and Biological Events
- Fundamental Standards for Blood Collection and Transfusion
- Getting Started in Patient Blood Management (free to members)
- Guidelines for Mass Fatality DNA Identification Operations
- The 2014-15 AABB Blood Collection and Utilization Survey Report (free to members)

Other publications can be purchased at a low cost—from about $15 to $40 for members.

- Auditing in the Cellular Therapy Laboratory
- Auditing in the Donor Center
- Auditing in the Transfusion Service
- Blood Transfusion Therapy: A Physician’s Handbook
- Blood Transfusion Therapy Data Card
- Blood Transfusion Therapy: A Guide to Blood Component Administration
- Guidelines for Antibody Identification
- Guidelines for Donor Hemoglobin Determination
- Guidelines for Patient Blood Management and Blood Utilization
- Neonatal Transfusion Guidance
- Pediatric Hemotherapy Data Card (set of 10)
- Pediatric Transfusion: A Physician’s Handbook
- Prophylactic Platelet Transfusion Data Card (set of 10)
- RBC Transfusion Data Card (set of 10)
**Complications**

**Transfusion Reactions, 4th edition**

*Edited by Mark A. Popovsky, MD*

Adverse events such as transfusion-related acute lung injury (TRALI), graft-vs-host disease, hemolytic or allergic reactions, bacterial contamination, and many others are spotlighted in *Transfusion Reactions*. This reference manual on noninfectious complications is as prominent in the field as it is comprehensive. Appropriate for clinicians, laboratorians, and nurses worldwide, the book features each complication in terms of clinical presentation, morbidity, differential diagnosis, mechanism of action, treatment, and prevention.

Product Code: 122160 | Member Price: $135 | Nonmember Price: $165

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**Hemovigilance: An Effective Tool for Improving Transfusion Safety**

*Edited by René R.P. De Vries, MD, and Jean-Claude Faber, MD*

This volume is a practical guide to setting up and improving hemovigilance systems, while raising awareness for reporting adverse events and reactions. This is the first international book on hemovigilance, assembling all the vital issues in one definitive reference source—essential reading for all staff involved in the transfusion process. A general introduction includes chapters on hemovigilance as a quality tool for transfusion as well as concepts of and models for hemovigilance. The core of the book describes how hemovigilance systems have been set up and how they work in hospitals, in blood establishments, and at a national level.

Product Code: 129100 | Member Price: $145 | Nonmember Price: $159.95

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**DONOR ELIGIBILITY AND SAFETY**

**Blood Donor Health and Safety**

*Edited by Anne F. Eder, MD, PhD, and Mindy Goldman, MD*

This book focuses on the health and safety of volunteer blood and HPC donors and explores what is known regarding risk factors for complications, including future directions for research to improve blood donor safety. Readers will develop a greater understanding of donor safety issues, blood centers will be able to implement additional strategies for preventing adverse consequences, and donors will benefit from an improved donation experience. Chapters cover:

- Central principles of donor education and counseling.  
- Issues in measuring a blood donor’s hemoglobin.  
- Adverse events and complications, and preventive strategies.  
- Unique aspects of HPC collection.  
- International efforts to establish donor hemovigilance programs.  
- Collection and analysis of data on donor complications.

**PRINT EDITION:** AABB Press, 2009, soft cover, 174 pages, ISBN 9781563952814  
Product Code: 092015 | Member Price: $83 | Nonmember Price: $105

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**Guidelines for Donor Hemoglobin Determination**

*Developed for the Scientific Section Coordinating Committee by Ritchard G. Cable, MD, and Julie L. Houseworth, MD*

Anemia in prospective blood donors may indicate an underlying disease, may result in an ineffective blood product, and may cause harm to the recipient. Thus, the measurement of donor hemoglobin as a means of determining donor eligibility is of paramount importance. This *Guideline* identifies several of the methods currently in use for determining hemoglobin levels. The advantages, disadvantages, technical aspects, and quality assurance considerations of each method are described so that collection personnel can choose a particular method that ensures protection of the donor and a safe and effective product for the recipient.

**PRINT EDITION:** AABB, 2007, soft cover, 15 pages, ISBN 9781563952395  
Product Code: 073070 | Member Price: $15 | Nonmember Price: $18  
**DIGITAL EDITION:** AABB, 2007, ISBN 9781563953927  
Product Code: 073070DB | Member Price: $15 | Nonmember Price: $18
Operations


By Holly Rapp, MT(ASCP)SBB, CQA(ASQ)CMQ/OE, and Judith Sullivan, MS, MT(ASCP)SBB, CQA(ASQ)

This manual provides hospital-based blood banks and transfusion services with process flow charts and procedure documents that assist with quality management systems documentation and regulatory and accreditation compliance. Sections address processes for pretransfusion testing, crossmatching, automated testing, antibody identification, mother and infant, transfusion reactions, issue and return, common procedures, and training and competence assessment. Forms are provided for developing a complete training guide and competence assessment packet for each work process. Accompanying USB drive contains SOPs for adoption and customization by facilities.

Product Code: 172180 | Member Price: $140 | Nonmember Price: $170

Disaster Operations Handbook: Coordinating the Nation’s Blood Supply During Disasters and Biological Events, v3.0

Prepared and updated by members of the AABB Interorganizational Task Force on Domestic Disasters and Acts of Terrorism

The Disaster Operations Handbook is a highly relevant resource for all community blood centers, hospital blood banks, and transfusion services. It assists facilities in preparing for and responding to domestic disasters and acts of terrorism that affect blood supply and demand. It also provides a clear description of the federal, state, and regional networks available for support in the event of a crisis.

The portion that is most applicable to blood collectors has two major areas of focus: Preparation strategies to have in place before an event happens and activation procedures to implement once an event occurs. The portion that is most applicable to transfusion services and hospitals that do not collect allogeneic blood addresses not only providing transfusion in times of crisis, but also working effectively with local blood suppliers.

Ethical Issues in Transfusion Medicine and Cellular Therapy

Edited by Ronald E. Domen, MD, FACP, FCAP

Since this book’s predecessor was first published in 2000, the medical field has continued to change and advance in both the research and clinical realms. Ethical Issues in Transfusion Medicine and Cellular Therapy captures the essence of today’s issues and provides thought-provoking discussions from multiple perspectives. In addition, the book contains several case studies—short vignettes pulled from real-life experiences—that can stimulate consideration not only by physicians, but also by other professionals working in all areas of patient care. Content covers issues related to massive transfusion, MSM donors, donor incentives, cord blood, informed consent, research ethics, and hematopoietic mobilization, among others.

Product Code: 152150 | Member Price: $95 | Nonmember Price: $125
Product Code: 152150DB | Member Price: $95 | Nonmember Price: $125

“The quest for clear, concise, efficient transfusion service documents never ends, especially in a busy and growing multi-hospital transfusion service. As we rewrite and revise our documents, the Transfusion Service Manual has been both mentor and reference, providing templated examples of procedures in blocked format, clear process flow diagrams, and thoughtful training and competency assessment tools. These resources are invaluable to those who are reaching for the next level of clarity.”

—Jacolyn D. Leibold, MBA, MT(ASCP)SBB

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Guidelines for Mass Fatality DNA Identification Operations

By Amanda Sozer, PhD; Michael Baird, PhD; Michelle Beckwith, BS; Brian Harmon, PhD; Demris Lee, MSFS; George Riley, PhD; and Stefan Schmidt, PhD

This Guideline is intended to be available not only before a disaster occurs to assist in planning, but also at the time of crisis to facilitate implementation under the most difficult of circumstances. Topics covered include program management and oversight, technical considerations in sample collection and testing, data review, screening and statistics, and reporting of results. Special emphasis is placed on family interactions, educational and psychosocial support, and confidentiality of data. Appendices address determining probabilities, identifying mutations, calculating kinship, handling pedigree discrepancies, and using family pedigrees for correct sample collection.

Product Code: 103055DB | Member Price: FREE | Nonmember Price: FREE


By Barbee I. Whitaker, PhD; Srijana Rajbhandary, BDS, MPH; and Andrea Harris, MPH

Focused on AABB members, this report on blood collection in 2014 and collection and transfusion of blood in 2015 provides statistics, identifies current trends, and compares current findings with those of previous surveys. The text, tables, charts, and graphs present the fascinating (and sometimes surprising) results of the survey and the conclusions that can be drawn from them. Topics include:
- Key findings
- International report
- Trends in US collections by AABB members
- Trends in US transfusions by AABB members
- Current issues in collections
- Current issues in transfusions
- Component modifications
- Component costs

Product Code: 183138DB | Member Price: FREE | Nonmember Price: $899

Personnel/Training

Transfusion Medicine: Self-Assessment and Review, 3rd edition

Edited by Justin D. Kreuter, MD, and Douglas P. Blackall, MD

Developed to be used with the Technical Manual, this book helps students and trainees learn and review concepts in an examination format. A total of 15 chapters contain approximately 40 multiple-choice questions each—a 25% increase from the 2nd edition. The chapters are arranged by subject matter, from donation to transfusion reactions. Detailed explanations are found separately at the end of each chapter, providing a realistic test simulation.

This edition incorporates the latest information and expanded coverage of pathogen reduction, patient blood management, and cellular therapies. Transfusion Medicine Self-Assessment and Review is the perfect classroom and self-study aid.

Product Code: 172040 | Member Price: $105 | Nonmember Price: $130
Product Code: 172040DB | Member Price: $105 | Nonmember Price: $130

Concise Guide to Transfusion Medicine

By Minh-Ha Tran, DO; Marissa Li, MD; Suchitra Pandey, MD; and Erica Antell, MT(ASCP)SBB

All professionals who hold American Board of Pathology certification in transfusion medicine/blood banking are required to take a 10-year recertification examination. Residents and transfusion medicine fellows must also prepare for initial certification. Non-transfusion-trained professionals need to bolster their knowledge when they are called to provide coverage for the transfusion service. Concise Guide to Transfusion Medicine was designed to support all professionals for whom continuing education is critical throughout their careers.

This compilation of high-yield summary information is intended to provide ready access to the essential information in transfusion medicine. Presented in a tabular and graphic format rather than dense text, Concise Guide allows rapid review of the key points that practitioners need to know, including evolving developments in pathogen inactivation, patient blood management, donor eligibility, cellular therapy, and other relevant topics. The 28 sections in this new resource are distilled from major AABB texts, including the Technical Manual, and provide a portable, on-the-go reference.

Product Code: 172017 | Member Price: $95 | Nonmember Price: $125
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