

Guidelines for autologous transfusion. II. Perioperative haemodilution and cell salvage

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1. Introduction

Part I of the Guidelines for Autologous Transfusion dealt with preoperative autologous donation and was published by the British Committee for Standards in Haematology (BCSH) Task Force in 1993.¹ Part II deals with acute normovolaemic haemodilution in the perioperative period and red cell salvage procedures.

The purpose of all forms of autologous transfusion is to avoid the transfusion of allogeneic blood. This may be necessitated, for instance, by difficulty in obtaining compatible blood for a particular patient, for example when the patient has a rare blood group or when multiple red cell antibodies are present, but more commonly is used as a general strategy for avoidance of the risks (infectious and immunological) of allogeneic transfusion. Autologous transfusion procedures are not usually acceptable to Jehovah's Witnesses, although some accept intraoperative cell salvage (see below). The option must be discussed with patients individually.

In order to maximize the potential benefits, the various forms of autologous transfusion should be seen as complementary, and it is essential that an appropriate transfusion strategy should be developed for each individual patient's needs. Co-ordination of autologous transfusion procedures is of vital importance, with clear methods for communicating whether pre-deposited autologous blood is available as it may be unnecessary to use additional autologous techniques in some patients. It must be remembered that the serious risks of allogeneic transfusion are lower in the UK than in many other countries, and that the procedures used for autologous transfusion of whatever type must be considered carefully so as to minimize potential adverse effects of the procedure itself. The decision to transfuse the autologous blood should be based on that particular patient's need for blood, rather than simply on its availability.

Specific consent for autologous transfusion

procedures carried out in theatre is not considered to be necessary. Currently this requirement is considered to be covered by generic surgical consent, although patients must be given full information about the proposed treatment. The information sheet should state that it may be necessary to administer allogeneic blood in an emergency.

While these guidelines seek to deal with situations likely to be met in current clinical practice it is recognized that exceptional circumstances may arise and that the final decision regarding the use of autologous transfusion rests with the consultant (or deputy) who undertakes the procedure.

2. Acute normovolaemic haemodilution

1. Acute normovolaemic haemodilution (ANH) is defined as the removal of blood from a patient immediately before operation, either before or shortly after induction of anaesthesia, and simultaneous replacement with an appropriate volume of crystalloid or colloid fluids, alone or in combination, such as to maintain the circulating volume.

The risks of haemodilution (i.e. of a low intra-operative haematocrit) can be minimized by limiting its extent (target haematocrit 25–30%); however, studies using mathematical modelling techniques suggest that savings in allogeneic blood use in such circumstances are likely to be small. Prospective controlled studies are needed to elucidate the effectiveness or otherwise of moderate ANH in reducing the need for allogeneic transfusion.²

Extreme haemodilution (target haematocrit <20%) is likely to be more efficacious in reducing allogeneic transfusion requirements, but the risks are correspondingly greater. This procedure should be restricted to relatively healthy patients with a low risk

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National Institutes of Health Consensus Development Conference Consensus Statement ,1988 **Blood Substitutes** Robert M. Winslow,Kim D. Vandegriff,Marcos Intaglietta,2012-12-06 This book is not a proceedings volume Rather the chapters are essays by experts in the field of blood substitutes invited by the editors to contribute to the 1996 Current Issues in Blood Substitutes Research and Development course given in San Diego March 18 21 The contributors were selected because of their expertise in areas deemed by the editors to be critical to the advancement of the field The course as in past years is heavily influenced by feedback from participants and by research in this and related fields In addition to the didactic lectures for which these chapters are the foundation the course also offers the opportunity for presentation of research reports progress reports from the various companies currently commercializing products and round table discussions of selected subjects Thus we are grateful to past participants for their helpful comments Production of a book especially on a short timeline is not an easy feat *Rutherford's Vascular Surgery E-Book* Jack L. Cronenwett,K. Wayne Johnston,2014-03-12 Published in association with the Society for Vascular Surgery Rutherford's Vascular Surgery presents state of the art updates on all aspects of vascular health care Extensively revised by many new authors to meet the needs of surgeons interventionalists and vascular medicine specialists this medical reference book incorporates medical endovascular and surgical treatment as well as diagnostic techniques decision making and fundamental vascular biology Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Master the latest developments techniques and approaches with thorough updates on endovascular applications vascular access imaging non operative management and much more View clinical and physical findings and operative techniques more vividly with a full color layout and images Get answers you can depend on Rutherford's delivers the world's most trusted information on all major areas of vascular health care is written by international experts and includes up to date bibliographies and annotated recommended references Discover emerging techniques in rapidly advancing topics with special emphasis on endovascular coverage vascular imaging angiography CT and MRI Explore brand new chapters on dialysis catheters renovascular disease and management of branches during endovascular aneurysm Stay up to date with the latest coverage of endovascular procedures that reflects the changing practices and techniques in vascular surgery Access videos at Expert Consult

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Haemostasis in Spine Surgery Marek Szpalski,Robert Gunzburg,Richard B. Weiskopf,Max Aebi,2005-08-29 Blood loss in spine surgery is a significant and very common problem connected with all kinds of surgical procedures An international faculty of authors provide a comprehensive survey on the research and evidence about blood sparing in spine surgery This publication fills a gap in the spinal literature and provides invaluable data for all those confronted with blood loss during surgical procedures on the spine **Preoperative Evaluation and Cost Containment** Richard A. Wiklund,2002

Tratado de anestesia y reanimacio'n ,2001 *Perioperative Transfusion Medicine* Richard Counts,Steven A. Gould,1998 Thoroughly updated for its Second Edition this volume is the most comprehensive current reference on perioperative transfusion medicine and coagulation It provides complete information on all current blood products and transfusion risks transfusion and coagulation issues during the preoperative intraoperative and postoperative periods and specific concerns in each surgical subspecialty Eighteen new chapters in this edition cover blood shortages economic concerns emergency needs virus transmission parasitic and septic risks immunosuppression risks non infectious risks production and storage issues hemoglobin based oxygen carrying solutions perfluorocarbon based oxygen carrying solutions preoperative plateletphoresis volume resuscitation antifibrinolytics aprotinin DDAVP platelet inhibitors burn patients and post surgical stress response *Transfusion Medicine in Practice* Michael J Desmond, MB, MRCP,Jennifer Duguid, MB, FRCPath,Lawrence Tim Goodnough, MD,2020-08-26 Transfusion Medicine in Practice focuses on the clinical applications of transfusion discussing the different settings in which transfusion is carried out including surgery transplant trauma intensive care and paediatric neonatal and obstetric cases The text also includes a full discussion of transfusion products and how to use them pharmacologic products as an alternative to blood and transfusion service management This practical text on the clinical practice of transfusion will be an invaluable resource for all those involved in the use of blood and blood products

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