PRACTICAL ASPECTS OF TRANSFUSION

(notes provided by Dr Peter Flanagan)

Objectives

1. To understand the basic principles underlying the provision of compatible blood components for patients.
2. To gain an understanding of the causes and types of transfusion reactions.

Pre-Transfusion Testing

The aim of pre-transfusion practice is

- to avoid haemolytic transfusion reactions
- to provide red cells for transfusion that will survive normally in the recipients circulation

Safe transfusion is dependent on the accurate identification of the prospective recipient and labelling of the blood sample. Experience has shown that errors in patient identification both at the time of collection and subsequently at the point of transfusion are the most frequent and important cause of severe haemolytic reactions.

Pretransfusion testing involves:

1. Correct patient identification, blood sampling and labelling at the bedside
2. Determination of the ABO and Rh(D) type of the recipient
3. An antibody screen designed to detect irregular red cell antibodies
4. Selection of appropriate red cells for transfusion
5. A final cross match or compatibility test

Determination of the ABO and Rh(D) Type

The red cells of the potential recipient are typed using commercial monoclonal reagents. These are normally IgM in nature and capable of producing results in a few minutes.

Antibody Screen

The antibody screen uses specially selected red cells that show homozygous expression of the most important red cell antigens. Antibody screening is performed using the **Anti-Human Globulin (AHG) Test**.

The test aims to identify the presence of these on the surface of the red cells following incubation of screening cells and patient serum at 37 degrees celsius.

Practical Aspects Of The Transfusion Service

Margaret Treacy,Judith A. Bertsch

Practical Aspects Of The Transfusion Service:

Practical Aspects of the Transfusion Service Harold B. Anstall,Robert C. Blaylock,1996-01-01 This pocket reference provides helpful guidance on transfusion medicine techniques laboratory procedures the risks and hazards of transfusion and quality assurance Emphasizing concise practical explanations and advice over detailed scientific discussions the work is a reference for those who must work with blood transfusion but are not specialists in the field The authors explain what blood products are available when to use them how to interact with clinicians more productively how to avoid infectious complications and how to assure quality and patient safety **Practical Transfusion Medicine** Michael F. Murphy,Derwood H. Pamphilon,2008-04-15 Essential practical manual for all those working in modern transfusion medicine Why Buy This Book Concise and user friendly guide to transfusion medicine Provides guidance for everyday clinical questions Revised and updated throughout to reflect rapid developing areas Scope broadened by including experts from the USA

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aspects of routine blood banking is used throughout the world as a resource document for the performance of laboratory tests to ensure blood transfusion safety **Cumulated Index Medicus** ,1997 **Processing of Bone Marrow for Transplantation** Ronald A. Sacher,Leo J. McCarthy,1990 **The Medical Clinics of North America** ,1921 **The Principles and practice of surgery. v.1** Richard Warren,1916 *International Record of Medicine and General Practice Clinics* Frank Pierce Foster,1902 *New York State Journal of Medicine* ,1919 Handbook of Blood Transfusion Therapy J. A. F. Napier,1995 Although blood transfusion has never been safer than it is today concerns about safety and the corresponding need for information about risks and benefits are greater than ever before This combined with the increasing demand for health care resources has put pressure on the need to treat wisely and economically The Handbook of Blood Transfusion Therapy Second Edition is a substantial revision of Blood Transfusion Therapy A Problem Oriented Approach and reflects the major advances that have occurred in a number of clinical fields since the first edition It is as a result of these developments that transfusion is significantly more effective and safe as a therapeutic activity provided that it is used judiciously by informed practitioners This timely edition promotes this educational message by placing emphasis on the practical issues concerning the use of blood transfusion products and services while covering the core knowledge needed for the management of day to day problems Concise and lucid it is an invaluable source of information for all medical and nursing staff responsible for the management of commonly encountered blood transfusion problems and essential for trainees in the speciality of haematology and blood transfusion **Principles and Practice of Obstetrics & Perinatology: Clinical aspects of perinatal medicine** Leslie Iffy,Harold A. Kaminetzky,1981 **Plumer's Principles & Practice of Intravenous Therapy** Sharon Weinstein,Ada Lawrence Plumer,1997 You will find clear and efficient guidance for providing quality infus ion care to patients in every setting The text s highly integrated fo rmat covers every aspect of intravenous therapy in organized detail here is all the knowledge you will ever need The history legal issu es nursing roles and recent innovations to IV therapy practice in cluding credentialing processes for both RN and LPN LVNs help to bu ild a solid foundation for study And essential data is provided for f luid and electrolyte balance and parenteral fluids New in the sixth e dition Two new chapters Cost Factors Associated with Infusion Th erapy Intravenous Therapy in an Older Adult Patient Other additions include Updated information on Risk Management Pain Management A dvanced Vascular Access Home Infusion Therapy Total Parenteral Nutri tion Pediatric Considerations The most current CDC guidelines and I NS Nursing Standards of IV Practice Appendix featuring licensed prac tical vocational nurse delivered therapies **Journal of the Medical Association of South Africa** ,1969 **The Clinical Journal** ,1940 **Selecting Policies and Procedures for the Transfusion Service** Margaret Treacy,Judith A. Bertsch,1982

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