

Recent advances in haematology

Drew Provan, Denise F O'Shaughnessy

Haematology is a diverse specialty embracing clinical and laboratory aspects of adult and paediatric disease, both malignant and non-malignant. We describe here some of the progress that has been made in diagnostic and therapeutic strategies. Molecular advances are continuing at a phenomenal rate (exceeding the rate of progress in therapeutics), offering highly sensitive methods for disease detection and, in some disorders, prospects of cure through gene therapy.

Methods

We used information from recent key meetings, including those of the British Society for Haematology and the American Society of Hematology; leading articles in major haematology journals; and discussion with colleagues. The choice of topics covered is largely personal, and owing to space restrictions we have not included every "advance" within the specialty.

Anaemias

Distinguishing between anaemia due to iron deficiency and anaemia of chronic disease is a difficult but common problem in medical practice. Anaemia of chronic disease is complex and involves inflammatory cytokines,¹ reduced marrow response to erythropoietin, reduced red cell life span, and impaired reuse of iron.² In typical, uncomplicated iron deficiency anaemia the haemoglobin concentration, mean cell volume, and serum ferritin and iron concentrations are reduced with raised total iron binding capacity; unfortunately cases are often not typical, and the results of these tests may seem conflicting. Furthermore, if a patient with anaemia of chronic disease is also iron deficient, the parameters for diagnosing iron deficiency are altered, making the diagnosis difficult; often a bone marrow aspirate, stained for iron, is the only method for accurately assessing iron status. This is expensive, time consuming, and unpleasant for the patient. Recently the serum transferrin receptor assay has been developed, enabling more accurate assessment of iron status in this group of patients.

Serum ferritin, a 480 kDa multisubunit protein, represents the body's iron storage pool. A reduced serum ferritin concentration generally indicates depletion of the iron stores. Ferritin, however, is an "acute phase protein," whose concentration is raised in inflammatory disorders; in a patient with, for example, active rheumatoid disease the ferritin concentration may be normal (or even raised) even if the patient is

Recent advances

Iron deficiency anaemia can now be distinguished from anaemia of chronic disease by using serum transferrin receptor assays

A recently discovered human herpesvirus may have a role in development of myeloma

Additional thrombotic risk factors—for example, factor V and prothrombin gene mutations, hyperhomocysteinaemia—have been identified

Newly designed DNA probe arrays have the potential to allow rapid automated detection of mutations

Antisense therapy, ribozyme technology, and other novel treatment methods are being developed

truly iron deficient. The transferrin receptor assay aims to distinguish clearly between simple iron deficiency and anaemia of chronic disease in most cases.

How does the transferrin receptor assay work? Transferrin is a protein that carries plasma iron. Cells that require iron express the transferrin receptor on the cell surface.³ The receptor binds plasma transferrin with bound iron atoms, after which the transferrin receptor-transferrin complex is internalised (Fig 1). After unloading the iron atoms, the transferrin receptor-transferrin complex moves back to the cell surface and dissociates, leaving transferrin free to pick up further iron atoms. In iron deficiency anaemia the number of transferrin receptors increases (is upregulated),⁴ whereas in anaemia of chronic disease the number of transferrin receptors remains normal. Assays for transferrin receptors may be performed on serum with an enzyme linked immunosorbent assay (ELISA), allowing large numbers of samples to be batch tested. According to available data, the test seems as reliable as testing bone marrow aspirate for diagnosing iron deficiency and should be valuable in patients with rheumatology disorders and others with inflammatory disorders.

Haemophilia

Haemophilia A (Factor VIII deficiency) and B (Factor IX deficiency, Christmas disease) are X-linked bleeding

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G Psacharopoulos



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 Transplantation in Hematology and Oncology T. Büchner,H. Jürgens,W.E. Berdel,J.van de Loo,J. Ritter,J. Kienast,J. Vormoor,2012-12-06 Some three decades after bone marrow transplantation was introduced in the field of hematology and oncology transplantation today continues to rapidly grow and expand into a variety of new modalities Peripheral blood has

been established as an effective source of autologous progenitor cells Furthermore the graft versus leukemia effect has resulted in novel strategies of adoptive immunotherapy for cancer Finally approaches to gene transfer and therapy are utilizing transplantation methodologies and can augment their effects Current results new developments and perspectives are presented in this volume Conventional and innovative experimental approaches the past and the future of bone marrow transplantation are reviewed and discussed by leading representatives

Basic Skills in Interpreting Laboratory Data Mary Lee, 2009-02-26 This new edition of Basic Skills in Interpreting Laboratory Data 4th Edition is a case based learning tool that will enhance your skills in clinical lab test interpretation It provides fundamentals of interpreting lab test results not only for pharmacy students but also for practitioners as an aid in assessing patient drug treatment responses It is the only text written by and for pharmacists and provides case studies and practical information on patient therapy Since the publication of the third edition much has changed in the clinical lab and in the hospital pharmacy Consequently the new fourth edition incorporates significant revisions and a wealth of important new information NEW TO THIS EDITION Three new chapters including new information on men's health women's health and pharmacogenomics and laboratory tests Mini cases embedded in each chapter provide therapy related examples and reinforce important points made in the text Quickview Charts give an overview of important clinical information including reference ranges and critical values Learning Points focus on a clinical application of a major concept present in the chapter

Wintrobe's Clinical Hematology John P. Greer, Daniel A. Arber, Bertil Glader, Alan F. List, Robert T. Means, Frixos Paraskevas, George M. Rodgers, 2013-08-29 With the 13th edition Wintrobe's Clinical Hematology once again bridges the gap between the clinical practice of hematology and the basic foundations of science Broken down into eight parts this book provides readers with a comprehensive overview of Laboratory Hematology The Normal Hematologic System Transfusion Medicine Disorders of Red Cells Hemostasis and Coagulation Benign Disorders of Leukocytes The Spleen and or Immunoglobulins Hematologic Malignancies and Transplantation Within these sections there is a heavy focus on the morphological exam of the peripheral blood smear bone marrow lymph nodes and other tissues With the knowledge about gene therapy and immunotherapy expanding new up to date information about the process and application of these therapies is included Likewise the editors have completely revised material on stem cell transplantation in regards to both malignant and benign disorders graft versus host disease and the importance of long term follow up of transplantation survivors

Hemopoietic Growth Factors, Oncogenes and Cytokines in Clinical Hematology E. Cacciola, A. B. Deisseroth, R. Giustolisi, 1994-01-13

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Symposium on Hematology and Hematologic Malignancies Peter A. Cassileth, 1984

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