

## 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,<sup>1</sup> reduced marrow response to erythropoietin, reduced red cell life span, and impaired reuse of iron.<sup>2</sup> 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.<sup>3</sup> 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),<sup>4</sup> 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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**Global Virology IV: Viral Disease Diagnosis and Treatment Delivery in the 21st Century** Charurut Somboonwit,Paul Shapshak,Pandjassarame Kanguane,S. Balaji,John T. Sinnott,Lynette J. Menezes,Asa Oxner,2024-09-05 In the face of recent viral outbreaks and a global viral pandemic the necessity for innovation and continued rapid advancement in viral diagnosis and treatment methods has become even more apparent Global Virology IV Viral Disease Diagnosis and Treatment Delivery in the 21st Century explores the latest advances in virology and trends in clinical practice focused on foundational principles and advancements expected to significantly impact this field Chapters address SARS CoV 2 Ebola Zika Mpox and Hepatitis C among other key viral threats before presenting a detailed analysis of antiviral agents broadly and concerning specific vulnerable populations such as stem cell and solid organ transplant recipients It is designed as a helpful resource for medical students scientists and professionals bridging current practice and future applications and inspiring further innovations and improvements in global health      *Recent Advances in Paediatrics* David Hull,1981      Symposium on Hematology and Hematologic Malignancies Peter A. Cassileth,1984      *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

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**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

**Hematology E-Book** Ronald Hoffman, Edward J. Benz, Leslie E. Silberstein, Helen Heslop, Jeffrey Weitz, Mohamed E. Salama, 2022-10-27 Extensively revised comprehensive content from leading global contributors ensures that Hematology 8th Edition remains your 1 choice for expert guidance in all areas of this rapidly advancing subspecialty This edition reflects the numerous advances that are redefining the field and dramatically influencing new approaches to diagnosis treatment and outcomes Well illustrated and clinically focused it details the basic science and clinical practice of hematology and hematopoietic cellular therapy covering virtually all aspects of hematology in one definitive resource Covers all hematologic disorders including comprehensive discussions of hematologic malignancies individualized patient care cell based therapies transplantation transfusion medicine hemostasis thrombosis and consultative hematology in one convenient volume Provides state of the art guidance from global experts at the forefront of the latest research and clinical practice Provides extensive updates throughout on basic science research advances in molecular diagnostics new drugs immunotherapies personalized medicine laboratory medicine transfusion medicine stem cell transplantation and clinical treatment for all hematologic malignancies and non malignancies Contains new chapters on gene editing the impact of mitochondria on hematopoiesis myelodysplastic syndrome myeloproliferative neoplasm overlap syndromes immunotherapy and management of its toxicities transfusion medicine in

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the field Hematology is a compendium with commentaries of the most important papers published in the field from 1900-1999. The book will be useful for reference; many of the older papers can no longer be found in most libraries yet are still referred to in current publications, especially review articles as well as teaching. The Editor and a team of associate editors have included the most important papers covering eight categories: anemia, phagocytic cells, platelets, coagulation and thrombosis, lymphocytes and immune disorders, transfusion medicine, hematologic malignancies and therapeutics, and laboratory developments. Each paper is accompanied by a 1-2 page commentary explaining its impact and references to the developments that resulted. Key Features: Contains 86 landmark articles from the last 100 years of research in clinical hematology; Includes expert commentaries discussing the impact of each article; Cites approximately 1000 preceding or subsequent articles of consequence in the commentaries; Includes the English translations of nine articles originally published in other languages; Provides easy access to several papers that may no longer be found in libraries. **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1971 **Archives of Pathology**, 1928

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