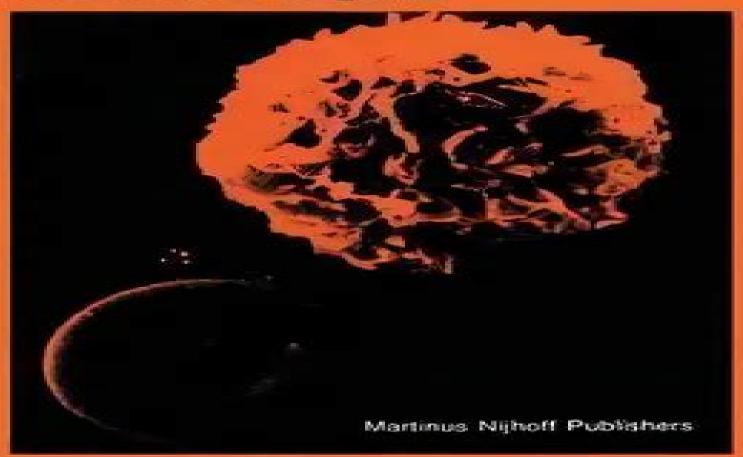
Developments in immatelogy and immunology

C Th Smit Siblinga, P C Das and H F Taswell editors

## Quality Assurance in Blood Banking and Its Clinical Impact



# **Quality Assurance In Blood Banking And Its Clinical Impact**

C.Th. Smit Sibinga,J.D. Cash

#### **Quality Assurance In Blood Banking And Its Clinical Impact:**

Quality Assurance in Blood Banking and Its Clinical Impact Cees Smit Sibinga, P.C. Das, H.F. Taswell, 2011-09-17 THE PHILOSOPHY OF QUALITY ASSURANCE IN THE BLOOD BANK H F Taswell One year before this symposium Cees Smit Sibinga and I began to discuss an approach to quality assurance in the blood bank which we felt would be both important and practical and could serve as the basis for the choice of subjects to be presented in the symposium As an introduction to this book I would like to outline our approach the subjects chosen and the rationale behind our choice What is the fundamental purpose of a blood bank and transfusion service Simply stated the purpose of a blood bank and transfusion service and of a quality assurance program in blood banking is for the one to provide and the other to assure safe and effective transfusion therapy This objective is in contrast to that of other clinical laboratories The objective in a clinical chemistry laboratory is to produce accurate test results which will be meaningful to the clinician taking care of his patient In most clinical laboratories therefore the goals of a quality assurance program are largely quantitative that is to assure accurate numerical test results In contrast in the blood bank the goals of quality assurance are primarily qualitative that is to assure safe and effective transfusion As a result two somewhat different approaches to quality assurance are necessary Quality Assurance in Blood Banking and Its Clinical Impact C.Th. Smit Sibinga, P.C. Das, H.F. Taswell, 1984-01-31 Proceedings of the Seventh Annual Symposium on Blood Transfusion Groningen 1982 organized by the Red Cross Blood Bank Groningen Drenthe Quality Assurance in Blood Banking and Its Clinical Impact Howard F. Taswell, C. Th Smit Sibinga, P. C. Das, 1984 *Ouality* Assurance in Blood Banking and Its Clinical Impact C.Th. Smit Sibinga, P.C. Das, H.F. Taswell, 2012-12-06 THE PHILOSOPHY OF QUALITY ASSURANCE IN THE BLOOD BANK H F Taswell One year before this symposium Cees Smit Sibinga and I began to discuss an approach to quality assurance in the blood bank which we felt would be both important and practical and could serve as the basis for the choice of subjects to be presented in the symposium As an introduction to this book I would like to outline our approach the subjects chosen and the rationale behind our choice What is the fundamental purpose of a blood bank and trans fusion service Simply stated the purpose of a blood bank and transfusion service and of a quality assurance program in blood banking is for the one to provide and the other to assure safe and effective transfusion therapy This objective is in contrast to that of other clinical laboratories. The objective in a clinical chemistry laboratory is to produce accurate test results which will be meaningful to the clinician taking care of his patient In most clinical laboratories therefore the goals of a quality assurance program are largely quantitative that is to assure accurate numerical test results In contrast in the blood bank the goals of quality assurance are primarily qualitative that is to assure safe and effective transfusion As a result two somewhat different approaches to quality assurance are necessary Quality assurance in blood banking and its clinical impact P. C. Das, Cornelis Theodoor Smit Sibinga, H. F. Taswell, Stichting Rode Kruis Bloedbank Groningen/Drente,1984 Good Manufacturing Practice in Transfusion Medicine C.Th. Smit Sibinga, P.C. Das, H.J.

Heiniger, 2012-12-06 TOM AND TAYLORISM HOW THEY COMPARE H Bremer Preface The industrial world today is divided between two camps a culture based on the principles of Total Quality Management TQM developed in the Far East and one still strongly influenced by the origins of Scientific Management intro duced in the West by F W Taylor and others at the turn of the century This divergence will be shown to have arisen in the last forty years long enough for a new generation of managers and corresponding culture to emerge The two cultures are so deeply entrenched that it is difficult for one to change to the other However there is strong evidence to support the contention that people oriented TQM is superior and those companies clinging to Taylor models now face difficult decisions Actions by Taylor companies to move to TQM rnight weH be hindered rather than helped by applying present Quality Assurance Standards developed by Taylor oriented national and international Standards Institutions Transfusion Medicine E-Book Jeffrey McCullough, 2004-12-17 Revised and updated throughout the 2nd Edition offers a concise clinically focused and practical approach to the diagnosis and management of the full range of issues in transfusion and blood banking Jeffrey McCullough MD a national leader in the field reviews the most common disorders involving red blood cells white blood cells and hemostasis and examines each disease state with discussions of underlying pathophysiology clinical features up to date lab tests and current management strategies Presents the practice proven experience of a leader in the field of pathology and hematology Includes chapter summaries throughout for quick access to key quidance Offers complete quick access quidance on the full range of topics in blood bank and transfusion from blood collection and storage to testing and transfusing blood components to cellular engineering Discusses the latest developments including HP growth factors and cellular engineering Features a wealth of new illustrations and line drawings Automation in blood transfusion C.Th. Smit Sibinga, P.C. Das, C.F. Högman, 2013-11-11 With this symposium the Red Cross Blood Bank Groningen Drenthe affirms its well known reputation as an organizer of symposia of high standard and quality Several important aspects of bloodbanking have been discussed in the past The Blood Bank here is a specialist in its own field Administrative processes in respect of the donor information processes the preparation of the blood and the laboratory process are automatized New developments in these fields are undeway that you will certainly identify and investigate I do hope that you will come to conclusions from which we can learn and get better results As general manager of the Development and Investments Company for the Northern Netherlands NOM for several reasons I am very much interested in the outcome of this symposium In the first place I am proud that the Red Cross Blood Bank Groningen Drenthe is doing its utmost to be excellent in regard of research education and bloodprocessing In being so the Blood Bank can produce spinn offs for healthservices and the related industry

Alternative Approaches to Human Blood Resources in Clinical Practice Cees Smit Sibinga, P.C. Das, J.C. Fratantoni, 1998-09-30 Currently blood is a volatile issue The safety of blood and the quantification of transfusion risks have been dominant themes that have stimulated the development of alternative approaches in this rapidly developing area In clinical medicine conventional blood and its

components are used in supportive therapies dependent on the choice of apparent uncritical trigger factors A compounding factor is depth of prospective clinical trials for evidence Such trials in critical care areas would be of enormous value not only in recording adverse effects and under transfusion but also indicating the value of decision analysis and cost effectiveness in transfusion practice Alternative approaches include the use of cytokines growth factors humanised monoclonal antibodies recombinant plasma factors and buffy coat derived natural human interferons. These are being increasingly implemented in the clinic Solutions for oxygen transport are being developed and fibrinogen coated microcapsules are being investigated for thrombocytopenia In surgical patients various crystalloid and colloid combinations are explored as volume replacements To avoid allogeneic transfusions beneficial blood saving methods include various strategies such as autologous deposits normovolemic haemodilution and various agents including aprotinin tranecamic acid desmopressin and erythropoietin but their use in hospital shows considerable variations That umbilical cord blood could be a significant source of allogeneic stem cells in related and unrelated transplantation is illustrated by the increasing number of cord blood banks in Europe and elsewhere Future blood resources are likely to face several challenges immediate challenges relate to increased regulatory and political oversights intermediate solutions would offer some improvements in public health and alleviate public fear but probably not address the economic challenges thrust upon the medical care system As we approach the year 2000 the major concerns about transfusion medicine remain its logistics safety and effectiveness This theme is presented in the proceedings of the 22nd International Symposium on Blood Transfusion developed in 21 up to date topics collected and discussed in four sections This book will be of timely value to students professionals and all others interested or involved in the field of transfusion medicine whether clinical or related <u>Transmissible Diseases and Blood Transfusion</u> Cees Smit Sibinga,Roger Y. Dodd, 2002-09-30 This book is the only published literature that comprehensively discusses all aspects of transfusion of transmissible diseases the facts and the fiction It is of paramount importance to all involved in the vein to vein chain of transfusion medicine Transmissible Diseases and Blood Transfusion is an important reference for all hematologists and researchers involved in transfusion medicine Clinical Use of Blood Cees Th. Smit Sibinga, Yetmgeta E. Abdella, 2024-11-19 This exceptional reference book provides comprehensive insights into the conditions and requirements necessary to establish an optimal and supportive transfusion practice It focuses on enhancing the procurement process and manufacturing of blood products components in an evidence based and cost effective manner specifically targeting the vital advancements needed in low and middle income countries LMICs which are home to 84% of the global population While this book does not delve into practical disciplinary guidelines its emphasis lies on crucial topics It explores the balance between restricted and liberal use of blood and blood components the implementation and utilization of artificial intelligence including machine learning and deep learning and the integration of a digital footprint within clinical transfusion prescription and practice Additionally it addresses the significance of educating clinicians in transfusion medicine considering the educational environment and

curricular outcomes By contributing to the development of appropriate clinical utilization of blood and blood components the book highlights the importance of patient blood management evidence based decision making prescription practices and bedside care delivered by well informed professionals including clinicians nurses and technologists Furthermore it underscores the significance of fostering a conducive climate and environment nurturing knowledge economy and implementing quality management practices In its essence this book serves as an invaluable source of knowledge to enhance transfusion medicine practices refine clinical indication setting and facilitate informed decision making By emphasizing patient comfort welfare and the reduction of unnecessary harm and risks it aims to make a significant contribution to the field Hematologists and professionals involved in transfusion medicine will find this book to be an indispensable reference that enhances their understanding and expertise **Coagulation and Blood Transfusion** C.Th. Smit Sibinga, P.C. Das, P.M. Mannucci, 2012-12-06 With great pleasure I welcome you to the City of Groningen In more than one way there is cause for celebration Today marks the third lustrum of the annual international sympo sium on blood transfusion organized by the Rode Kruis Bloedbank Groningen Drenthe In my opinion it has been a remarkable initiative of the Bloedbank to start organizing a scientific conference as it did in 1976 It meant among others that in case of success the initiative would grow to be an annual item on the international congress calen der It also meant that a possible third lustrum would coincide with the celebration of the 950th anniversary of the City of Groningen I am happy to note that the initiative has been successful over the past fourteen years the Rode Kruis Bloedbank Groningen Drenthe has succeeded in organizing an annual symposium on blood transfusion with a different theme each year and with an average attendance of 250 participants from some 26 countries world wide The platform created with the special formula of the symposium for science and industry has been well balanced and beneficial to both Mr Chairman ladies and gentlemen I like to compliment the organizers with the success that they have attained Allow me to men tion the name of just one person in whom I like to thank everyone who has been involved in creating the annual Bloedbank symposia my warm congratulations to Dr Smit Sibinga and his staff Molecular Biology in Blood Transfusion Cees Smit Sibinga, Harvey G. Klein, 2000-09-30 The international symposia on blood transfusion in Groningen have taken place without interruption since 1976 Each year Dr Smit Sibinga and his team have not only organized a meeting on timely topics in blood transfusion but also succeeded in attracting prominent chairmen and speakers The subject of the 24th Symposium was Molecular Biology in Blood Transfusion and it was chaired by Dr Harvey G Klein National Institutes of Health USA In this book of proceedings an extraordinary range of subjects is covered including diagnostic aspects virology quality control cell and protein processing as well as a section on new horizons in clinical medicine

Transfusion Medicine: Quo Vadis? What Has Been Achieved, What Is to Be Expected C.Th. Smit Sibinga, J.D. Cash, 2012-12-06 th It is a great pleasure for me to open the jubilee 25 International Symposium on Blood Transfusion here in Groningen This symposium is co sponsored by the World Health Organization and is being held under the auspices of the

ISBT and the Secretary General of the Council of Europe Mr Walter Schwimmer The patronage was granted with great pleasure for several reasons First of all Dutch experts are very active in our Committees and have largely contributed in developing the Council of Europe principles in the blood area Secondly the Council of Europe is active today in the area of blood transfusion due to a tragic event which occurred in 1953 in the Netherlands following a flooding many of the blood products given for assistance could not be used due to incompatibilities and differences in labelling Some words to present the Council of Europe since the organisation is sometimes confused with institutions of the European Union The organisation has been founded in 1949 to establish the principles of democracy and rule of law all over Europe Since 1989 the year of the fall of the Berlin wall and the opening up of the iron curtain these principles could be extended to the countries of Central and Eastern Europe Today this makes the Council of Europe the only pan European organisation with 41 Member States thus representing more than 750 million people Biotechnology in blood transfusion C.Th. Smit Sibinga, P.C. Das, L.R. Overby, 2012-12-06 This symposium is devoted to Biotechnology in Blood Transfusion there are 22 experts discussing the state of the art in the application of monoclonal anti bodies recombinant DNA technologies and heterologous expression systems to the improvement and sometimes replacement of blood products charac terization of blood constituents and the effect of these developments on blood transfusion procedures Ten and maybe five years ago the title of a symposium such as this would have been Biosciences in blood transfusion informing what basic developments in molecular biology biochemistry and human physiology might pertain to blood transfusion in the distant future That future is getting closer and not only one is interested in basic developments in immunology recognition and identification of viral and bacterial components and products tissue and blood bloodgroup blood group typing typing but also in the potential application of these developments and their economic perspectives That is what biotechnology is all all about basic science tells tells us where and how we might look for new technologies and the development of such tech nologies is only possible if there is a perspective for **Cellular Engineering and Cellular Therapies** improvement in quality safety acceptance or performance to cost ratio C.Th. Smit Sibinga, L.F.M.H. de Leij, 2013-03-09 Welcome to the City of Groningen the center of the North of the Netherlands Groningen is proud of the long lasting tradition of scientific symposia organised by the Sanguin Blood Bank These Sanguin International Symposia on Blood Transfusion have become a true traditional event in Groningen marking the early academic year and have contributed to the specific reputation of Groningen and its University in the scientific field of Transfusion Medicine The growing tradition has also contributed to initiatives of both University Province and the City of Groningen to bring science and industry together BioMedCity Groningen Such repu tion does not just happen but is the result of creative and scientific leadership of vision and an open mind to explore in a team spirit horizons Groningen is particularly proud of this reputation thanks to its leadership the Sanguin Blood Bank North East This year in particular the theme chosen some two years ago is extremely timely as it illustrates the activities and scientific interest of an integrated team which includes

our regional Sanguin Blood Bank North East and fits in the City initiatives within the concept of BioMedCity Groningen Cryopreservation and low temperature biology in blood transfusion C.Th. Smit Sibinga, P.C. Das, H.T. Meryman, 2012-12-06 The theme of this 14th International Symposium on Blood Transfusion is closely related to the work and scientific contributions of the Dutch cryobiology pioneer Dr Herman W Krijnen of the Dutch Red Cross Central Laboratory Dr Krijnen was known and respected in the national and international blood transfusion community as an extremely competent scientist and a beloved and admired colleague Dr Krijnen was intentionally honoured with the invitation to open this symposium on cryopreservation and low temperature biology in blood transfusion and be the quest of honour at this event Unfortunately Dr Krijnen suddenly died on the first of June 1989 In honour and mem ory of Dr Krijnen this symposium will therefore be dedicated to him Since the lOth International Symposium on Blood Transfusion in 1985 highlighted the theme of Future developments in blood banking major changes have occurred in the blood banking world Most of these changes were forced upon the Blood Banks by the fear of spreading AIDS through contaminated donations This not only led to the wide spread testing of blood but also to a more appropriate counselling of the community and the blood donors in specific Additionally virus inacti vation techniques were introduced for those components derived from multiple donations and intended for a regular transfusion in haemophi lia patients and others **Trigger Factors in Transfusion** Medicine C.Th. Smit Sibinga, P.C. Das, E.L. Snyder, 2012-12-06 It is an honour and a pleasure to welcome you all at this 20th annual International Symposium on Blood Transfusion in the Netherlands This year you celebrate its 20th anniversary and I congratulate the Staff of the Blood Bank Noord Nederland and especially Dr Smit Sibinga for this great achievement As most of you know the name of the person of Dr Smit Sibinga is unbreakably con nected with the annual symposium in Groningen which he has organized each year from the very start 20 years ago The reputation of any symposium depends heavily on the quality of the lectures I think it is not possible to organize 20 symposia in a row if the topics lack actual relevance and the speakers are not of excellent reputation Dr Smit Sibinga has proven to have a keen eye for selecting interesting themes and eminent speakers Although a lot of different topics have been dealt with in the past 20 years which each attracted the attention of a different group in the field of blood transfusion it is not surprising that after a tradition of 20 years several speakers but also a lot of attendees are not for the first time in Groningen to participate in this event It gives the symposium a unique atmosphere of intimacy It is not hard to admit that most of the newer developments in transfusion medicine take place outside the Netherlands Quality Assurance in Haematology S. M. Lewis, R. L. Verwilghen, 1988 Advances in haemapheresis C.Th. Smit Sibinga, L. Kater, 2012-12-06 The first International Meeting on Apheresis was held in Dyon in 1984 At the congress it became clear that both the technical and therapeutic sides developed very rapidly and it appeared fruitful to bring together the investigators of the different countries working in the areas At that time immunology had come

to pervade many clinical specialities and hemapheresis especially plasmapheresis was considered a therapeutic tool in many

immunological diseases which hitherto had proved to be fatal New methods to identify certain antibodies and circulating immune complexes in the serum and the possibilities to remove them from the blood by several techniques filtration centrifugation immunoabsorp tion led to an almost uncontrolled use of plasma exchange in a variety of diseases Since then the technical possibilities of this technique were further recognized as was the impact of immunology on many diseases and the possibilities to collect specific components for therapeutic pur poses But also we became aware of the limited contributions of anec dotal data on successes or failures of apheresis as adjuvant treatment Therefore international prospective studies were initiated to make critical assessment possible of apheresis in various diseases

#### Quality Assurance In Blood Banking And Its Clinical Impact Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Quality Assurance In Blood Banking And Its Clinical Impact**, a literary masterpiece that delves deep to the significance of words and their affect our lives.

Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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