



Ortho Clinical Diagnostics



Objetives

The main objective of this course is to provide intensive training through updated information based on scientific evidence that motivates participants to implement in their workspaces the practices proposed by the PATIENT BLOOD MANAGEMENT (PBM) programs for its acronym in English).

The inclusion of the acronym GSP, which replaces the widely used acronym PBM in the English language, is necessary to reach all health care professionals with the appropriate expression in their Spanish native language.

Background

Patient Blood Management (PBM), or GSP by from its acronym in Spanish, is a patient-centred public health approach.

PBM programs are therapeutic strategies based on scientific evidence, which aims to improve the condition of patients, with particular attention to states of anaemia (pre-surgical, pregnancies, and other situations of vulnerability) and to minimize the bleeding during surgery and associated complications and preventing or avoiding maternal mortality from haemorrhage in uncontrolled pregnancies.

PBM directly impacts the use of hospital blood reserves and costs associated with medical care in general. To improve the use of blood components is not the programs' goal per se, but it is, undoubtedly, a result of their implementation.

These policies to manage the patient's blood have been strongly recommended since 2010 by the World Health Organization (resolution WHA63.12 of the World Health Assembly) and by the European Union since 2017. However, at the global level, there is a gap between the definition of the PBM, its knowledge, and its application as a general framework.

Education Proposal

The Ibero-American Cooperative Group of Transfusion Medicine leadership warned that the effective implementation of PBM in our region is still a significant weakness. It is from the intention of being a mobilizing agent of the urgent need to promote the policies of the PBM, which we develop, from our function as a



scientific society dedicated to Blood Transfusion, an annual course based on the three pillars of these policies: 1. Optimize erythropoiesis, 2. Minimize blood loss and coagulopathy, and 3. Harness the tolerance to normovolemic anaemia

Based on the practical approach of the course, the lectures will be given by professionals with experience in the implementation of the theoretical concepts assigned.

We started from the assumption that the most challenging part of the PBM program is its effective implementation rather than the dissemination of knowledge, given that current practices are long-standing and deeply rooted in all professionals involved in decision-making. The implementation of PBM requires a significant institutional commitment and changes that go beyond care practice and include interdisciplinary communication, data collection and analysis, information and patient involvement in decision-making, and redefinition of the operation and objectives of the Hospital Transfusion Committees.

The trainees of this course should be medical professionals working at Blood Bank Services, Transfusion Services, or Hemotherapy Services. They must engage at least one physician from their institutions from specialties that have a critical role in GSP (Obstetrics, Anaesthesiology, Intensive Therapy, Internal Medicine, Haematology, Surgery, Paediatrics, among others).

Finally, the GCIAMT strategic objective of the course is to ensure that students can develop a strategic toolkit to launch a PBM program within a multidisciplinary team at their institution, regions, or countries.

Supporting Societies

Network for the Advancement of Patient Blood Management, Haemostasis and Thrombosis (NATA).

Society for the Advancement of Blood Management (SABM)

International Foundation for Patient Blood Management (IFPBM)



Module 1 Thursday June 9

Presentation

Professor: Ana del Pozo

General introduction on the concept of Patient Blood Management (PBM). Differences between PBM and appropriate use of blood and its components (CUB)

Anaemia Overview

Professor: Manuel Muñoz Gómez

Prevalence and consequences. Comorbidities that compromise oxygen supply

Module 2 Thursday June 23

Anaemia Handling and Management

Professor: Arturo Pereira Saavedra

Pathophysiology and diagnosis: Interpretation of laboratory studies

Professor: Aryeh Shanders

Document Recommendations: International Consensus on Anaemia Management in Major Surgery (ICCAMS)

Professor: Donat R. Spahn

Pragmatic approaches to preoperative anaemia management

Module 3 Thursday July 14

Practical medical conduct for antithrombotic therapy in the perioperative period.

Professor: José Antonio García-Erce

Diagnosis of bleeding risk: interpretation of laboratory studies

Professor: José Aurelio Gómez-Luque

Comorbidities/pharmacological treatments that predispose to the risk of bleeding



Module 4 Thursday July 28

Anaesthetic-surgical techniques to reduce perioperative bleeding. Haemostasis abnormalities and their monitoring

Professor: Carla Tymkow

Non-pharmacological measures to reduce bleeding.

Professor: Misericordia Basora Macaya

When to prescribe antifibrinolytic and pro-haemostatic agents, coagulation factors, and topical interventions.

Professor: Santiago Ramón Leal Noval

Use of thrombo-elastometry and thrombo-elastography.

Module 5 Thursday September 1st

Optimizing anaemia tolerance

Professor: Carla Tymkow

Volume replacement: crystalloids-colloids

Professor: Manuel Muñoz Gómez

Efficacy and risk of Autologous Transfusion

Module 6 Thursday September 22

Obstetric Patient

Professor: Claudio Sosa

Maternal mortality situation in the Americas Region. Mortality due to peripartum haemorrhage (PPH)



Professor: Sara Cruz Melguizo

Physiological, haematological changes in pregnancy. Clinical implications.

Professor: Manuel Muñoz Gómez

Evaluation, investigation, and treatment of iron deficiency and anaemia in pregnant women. Iron needs during pregnancy and consequences of iron deficiency anaemia.

Professor: Sara Cruz Melguizo

Evaluation of haemorrhage risk in the postpartum stage. Causes, comprehensive management; support with blood components and/or pharmacological alternatives

Module 7 Thursday October 20

Polytraumatized patients and Massive Bleeding

Professor: Santiago Ramón Leal Noval

Concept of critical bleeding and pathophysiology of haemorrhagic coagulopathies. Clinical diagnosis and laboratory studies of the evolution of the massive bleeding.

Professor: Manuel Quintana

Use of blood components and transfusion alternatives to control the impact of critical bleeding.

Massive Transfusion Protocols. Roles and responsibilities of the professionals involved.

Module 8 Thursday October 27

Management of anaemia in other clinical settings I

Professor: David Faraoni

Causes of anaemia and iron deficiency in newborns, infants, children, and adolescents. Approach to evaluation and treatment



Professor: Antonio Pérez-Ferrer

Risks of bleeding and blood loss. Outline strategies to minimize blood loss.

Module 9 Thursday November 3

Management of anaemia in other clinical settings II

Professor: Michael Auerbach

Anaemia in adults' oncology patients

Professor: José Luis Morales Rull

Anaemia and iron deficiency in heart failure.

Module 10 Thursday November 17

Design and implementation of the PBM Program

Professor: Axel Hofmann

Why and how to implement PBM on an institutional level.

Professor: José Antonio García Erce

PBM role in ERAS programs (Enhanced Recovery After Surgery) and RICA guidelines

Professor: Elvira Bisbe

Maturity Assessment of Patient Blood Management (MAPBM)

Module 11 Thursday December 1

Effectiveness of a PBM program

Professor: Erica Wood

Model of a successful PBM program: Australia. Step by step for its implementation. Barriers that limit its adoption. Alternatives to overcome them. Effectiveness Indicators. Impact on healthcare costs. Strategies for multidisciplinary involvement. The patientcentred focus.



PBM Program effectiveness

Professor: Carlos Jericó

PBM program implementation in digestive surgery.

Professor: Patrick Meybohm

PBM cost-effectiveness program: results in the implementation of the European Perspective. Patient Centred focus.

Coordinator Team

Director: Silvina Kuperman¹,

Pedagogical Coordinators: Oscar Torres², Armando Cortes³

Academic Assesors: Ana del Pozo⁴, Manuel Muñoz⁵

- 1. GCIAMT president until 2019-2022
- 2. GCIAMT Secretary until 2019-2022
- 3. GCIAMT Continuing Education until 2019- 2022
- 4. Assessor Hemotherapy Program in Chaco Province, Argentina. Member of the Expert Committee on Biological Products ECBS-WHO.
- 5. University of Malaga, Spain. Network for the Advancement of Patient Blood Management, Haemostasis and Thrombosis (NATA, Board of Directors), International Foundation for Patient Blood Management (IFPBM)



Academy

Ana Fmilia del Pozo

Physician. Specialist in Hematology. Specialist in Hemotherapy and Immunohematology. Assessor Hemotherapy Program in Chaco Province, Argentina. Member of the Expert Committee on Biological Products- WHO (ECBS)

Manuel Muñoz Gómez

Physician. University of Malaga, Spain. Network for the Advancement of Patient Blood Management, Haemostasis and Thrombosis (NATA, Board of Directors). International Foundation for Patient Blood Management (IFPBM). Associate editor of the journal "Blood Transfusion"

Arturo Pereira

Physician. Specialist in Hematology and Hemotherapy. Consultant Senior "Servicio de Hematología del Hospital Clinic de Barcelona"

Aryeh Shanders

Physician, Anesthesiologist. Clinical Professor of Anaesthesiology, Medicine and Surgery, Icahn School of Medicine at Mount Sinai and Chief of Department of Anaesthesiology, Critical Care Medicine, Hyperbaric Medicine and Pain Management at Englewood Hospital and Medical Center. Founding member of the Society for the Advancement of Blood Management (SABM)

Donat R. Spahn

Physician, Anesthesiologist Professor and Chairman at the Institute of Anaesthesiology, University and University Hospital Zurich, Switzerland. Panel coordinator for the development of the European guidelines for management of bleeding following major trauma.

José Antonio García-Erce

Physician. Specialist in Hematology and Hemotherapy. Director Blood and Tissue Bank. Navarra. Spain. Member of the Scientific Committee of NATA.



Aurelio Gómez Luque

Physician, Anesthesiologist. Professor of Anaesthesia, Reanimation and Pain Medicine. University of Malaga. Spain.

Carla Tymkow

Physician, Anesthesiologist. "Hospital Italiano de Buenos Aires. Argentina"

Misericordia Basora Macaya

Physician, Anesthesiologist. Consultant at the Service of Anaesthesiology and Reanimation. "Hospital Clinic Barcelona", Barcelona, Spain. Assistant Professor, School of Medicine, University of Barcelona.

Santiago Ramón Leal Noval

Physician, Specialist in Intensive Care. Former consultant at Intensive Care Department, Hospital Virgen del Rocío, Seville, Spain. Director of the online course HEMACRIT (Massive and critical bleeding) and Coordinator of the Spanish Consensus Document on Alternatives to Allogeneic Blood Transfusion (Seville document). Associate Editor of the journal "Medicina Intensiva"

Aaron Tobian

Physician, Director of Transfusion Medicine Division, and Professor of Pathology Johns Hopkins University School of Medicine. Member of the AABB Board of Directors. Associate Editor for the Journal of Clinical Apheresis, Section Editor for UpToDate, and sits on the Editorial Board for the journal TRANSFUSION.

Claudio Sosa

Physician. Specialist in Obstetrics and Gynaecology. Full Professor "Gineco-Tocología", School of Medicine- UDELAR. Uruguay. PhD on Epidemiology, MsPH on Public Health, International Consultant PAHO/WHO

Sara Cruz Melguizo

Sara Cruz Melguizo. Physician. Specialist in Gynaecology and Obstetrics. Service of Gynaecology and Obstetrics "Hospital Universitario Puerta de Hierro" Madrid, Spain.



Manuel Quintana Paz

Physician Specialist in Intensive Care, Intensive Care Unit, University Hospital La Paz. PBM group, Hospital la Paz Institute for Health Research (IdiPAZ), Madrid, Spain. Associate Professor, School of Medicine, Autonomous University, Madrid, Spain.

David Faraoni

Paediatrician, Anesthesiologist. Texas Children's Hospital Associate Editor for Anaesthesiology, Anaesthesia & Analgesia, and Paediatric Anaesthesia, as well as a member of the editorial board of the Journal of Cardiothoracic and Vascular Anaesthesia, The Journal of Thoracic and Cardiovascular Surgery, and the Seminars in Cardiothoracic and Vascular Anaesthesia

Antonio Pérez-Ferrer

Physician, Anesthesiologist. Chief Service of Anaesthesiology and Reanimation, Coordinator of the Surgical Area, "Hospital Universitario Infanta Sofía, Madrid, Spain. Co-editor "Medicina Transfusional". Patient Blood Management (PBM), Ed Panamericana, 2° Ed 2018

Michael Auerbach

Physician, Specialist in Hematology and Oncology. Clinical Professor of Medicine, Georgetown University. School of Medicine, Pvt. Pract., Baltimore

José Luis Morales Rull

Physician, Specialist in Internal Medicine, University Hospital "Arnau de Vilanova". Head of the Heart Failure Unit, Health Care Region of Lleida, Lleida, Spain.

Axel Hofmann

Doctor of Medical Science with a Master's Degree in Economics. Adjunct Professor at the Faculty of Health and Medical Science, University of Western Australia and Visiting Professor at the Institute of Anaesthesiology at the University Hospital Zurich, Switzerland. Key opinion leader in PBM with a focus on clinical and health economic research, and the implementation of PBM. Chair of the World Health Organization's (WHO)



Elvira Bisbe

Physician, Senior Consultant of Anaesthesiology. Group of research in perioperative IMIM (Hospital del Mar Medical Research Institute). President of Anaemia Working Group España (www.awge.org). Member of the Haemostasia and Transfusion Medicine section in the Spanish Society of Anaesthesia (SEDAR). Network for the Advancement of Patient Blood Management, Haemostasis and Thrombosis (NATA, Board of Directors). International Foundation for Patient Blood Management (IFPBM).

Carlos Jericó

Physician, Specialist in Internal Medicine. Internal Medicine Service. "Hospital Sant Joan Despí-Moisés Broggi, Consorci Sanitari Integral, Sant Joan Despí, Barcelona, Spain. Grupo Multidisciplinar para el Estudio y Manejo de la Anemia del Paciente Quirúrgico (www.awge.org)"

Erica Wood

Physician, Specialist in Hematology. President of the ISBT (2020-2022), Director Transfusion Research Unit in the Department of Epidemiology and Preventive Medicine at Monash University in Melbourne, Australia. President International Hemovigilance Network, Member of World Health Organization Expert Advisory Panel in Transfusion Medicine

Patrick Meybhom

Physician, Anesthesiologist. Head of the Department of Anaesthesiology, Intensive Care Emergency and Pain Medicine, University Hospital Würzburg, Würzburg, Germany.



Organization

- This on-line course will be delivered through the virtual classroom of the GCIAMT.
- The course is aimed at physicians, specialists in transfusion medicine and members of the GCIAMT. They should be interested in experiencing learning based on real situations and in updating the required medical-theoretical frameworks. They must attend together with at least one physician from the above-mentioned specialties, who are not required to be members of GCIAMT, but to work in the same institution.
- Lectures will be delivered once or twice a month from June to December 2022, from 4 pm to 7 pm CEST.
- A certificate of course participation will be awarded if the students complete at least 80% attendance and a final self-assessment.
- Simultaneous translation English to Spanish will be available.
- The course lecture presentations will be uploaded to the GCIAMT Educational Campus. They will be available until the course ends.

START
THURSDAY JUNE 9
4:00 PM ARG
2:00 PM COL

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