

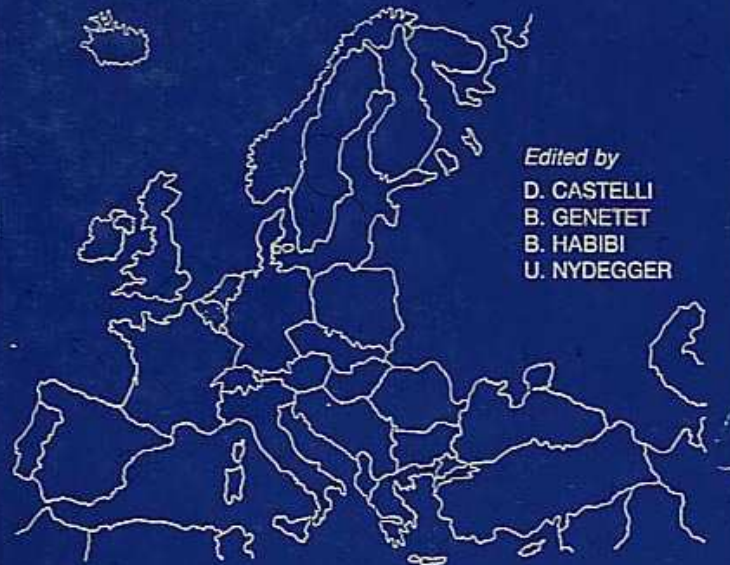


# Origin and aims of the ESTM (European School of Transfusion Medicine)

*Umberto Rossi, Antonio Iacone*

# Transfusion in Europe

Proceedings of the First ISBT Regional Congress  
European Region – Lugano, 7-10 May, 1989



*Edited by*  
D. CASTELLI  
B. GENETET  
B. HABIBI  
U. NYDEGGER

A publication of the International Society of Blood Transfusion



arnette

*The **ESTM** has been the result of a series of study documents and discussions on the teaching of Transfusion Medicine, originated by the **Council of Europe** (1963 and 1985) and developed by the **ISBT** and by the Italian Society of Transfusion Medicine (**SIMTI**) through its "**Symposia for European Cooperation**" following the recommendation issued at the end of the **ISBT** 1<sup>st</sup> European Regional Congress in **Lugano, 1989**:*

## **Teaching of Transfusion Medicine**

*(U. Rossi, J.D. Cash: editors)*

First SIITS-AICT Symposium for European Cooperation

**Cernobbio** (Italy), **1<sup>st</sup> October 1990**

## **Voluntary blood donors Associations: present and future**

*(U. Rossi, V. Fresia, B. Genetet: editors)*

Second SIITS-AICT Symposium for European Cooperation

**Cernobbio** (Italy), **6<sup>th</sup> October 1990**

## **Teaching and education in Transfusion Medicine**

*(U. Rossi, J.D. Cash: editors)*

Main session

of the 3<sup>rd</sup> ISBT Regional (2<sup>nd</sup> European) Congress

**Prague** (Czechia), **15<sup>th</sup> October 1991**

## **Therapy with plasma and albumin: production and clinical use**

*(U. Rossi, W.G. Van Aken, M. Orlando: editors)*

Third SIITS-AICT Symposium for European Cooperation  
**Rome** (Italy), 6<sup>th</sup> June 1992

## **Mass media and blood donation**

*(U. Rossi, I. Cipriani, V. Fresia: editors)*

Fourth SIITS-AICT Symposium for European Cooperation  
**Rome** (Italy), 6<sup>th</sup> June 1992

## **Teaching of Transfusion Medicine to undergraduate medical students**

*(U. Rossi, H. Seyfried: editors)*

Symposium of the 4<sup>th</sup> ISBT Regional (3<sup>rd</sup> European) Congress  
**Barcelona** (Spain), **15<sup>th</sup> June 1993**

## **Therapeutic haemapheresis**

*(U. Rossi, A. Bussel, M. Valbonesi: editors)*

Fifth SIMTI Symposium for European Cooperation  
**Genova** (Italy), **9<sup>th</sup> June 1995**

**March 1992**, the **ESTM** was born in **Milan**, through the signatures of the Constitution Act and of the Statute.

The ESTM is a **non-profit Association** under the Italian law, managed by a Council of Administration and an Executive Committee, and guided by Scientific and Advisory Committees.

The **aims** of the ESTM were defined as to provide a **Specialist Teaching of Transfusion Medicine (TM)**, of an international and European character, for specialist doctors already established from a scientific and professional standpoint, physicians, other graduates and paramedical personnel under specialist training.









## How to learn Transfusion Medicine

Proceedings of the session jointly organised by  
the European School of Transfusion Medicine (ESTM),  
the Israel Society of Haematology and Blood Transfusion  
and the Mediterranean Blood Club - Jerusalem, 13<sup>th</sup> May 1993

*Edited by:*

U. Rossi  
S. Bar-Shany



Israel Society  
of Haematology and  
Blood Transfusion



## At medical undergraduate level

### Substantial basic information on Transfusion Medicine

- urgent in most European countries
- hardly considered  
in University Medical curricula
- need of European proposal  
and harmonisation

## At medical postgraduate level

- 1) Own speciality of Transfusion Medicine
- 2) Inclusion of complete and correct core information and practice about Transfusion Medicine in all curricula of surgical and medical specialities
- 3) Need of European proposal and harmonisation

**Transfusion Medicine**

**as a separate speciality**

**at least in countries with  
a more developed medical organisation**



**1991**

**(ISBT European Congress, Prague)**

- Proposal of a recommended minimum European curriculum**
- Discussed, amended and defined before and during the plenary session on Teaching and education in Transfusion Medicine**

**SCHEME OF THE STRUCTURE AND ARTICULATION OF THE PROPOSED EUROPEAN CURRICULUM OF POSTGRADUATE TEACHING OF TRANSFUSION MEDICINE AND OF ITS CONNECTIONS WITH OTHER NEIGHBOURING SPECIALITIES**

year					GENERAL HAEMATOLOGY (4 ys)	TRANSFUSION MEDICINE (5ys)	IMMUNOLOGY (4ys)		PERIOD	EXAMINATION
5	<b>SPECIALIST DIPLOMA OF:</b> — INTERNAL MEDICINE — SURGERY — OBSTAE TRICS — PAEDIATRICS — ANAESTHESIOLOGY — LABORATORY MEDICINE — CLINICAL CHEMISTRY				CLINICAL HAEMATOLOGY	LABORATORY HAEMATOLOGY				DIPLOMA second and final
4					← ? →	← ? →				
3					immunology, immunohaematology and basic blood transfusion	immunology and immuno-haematology	← also immuno-haematology		second period = 3 ys = <b>SPECIALIST TRAINING</b>	
2					haematology (clinical and laboratory)	haematology (clinical and laboratory)	← also haematology and clinical immunology	ALLERGOLOGY AND CLINICAL IMMUNOLOGY (3 ys)		
1	MORBID ANATOMY (4 ys)	MICROBIOLOGY (4 ys)	also haematology	more laboratory haematology than other	clinical medicine *	clinical medicine *	← also clinical medicine *		first period = 2 ys = <b>POSTGRADUATE MEDICAL TRAINING</b>	first
0	also general laboratory medicine	also general laboratory medicine	also general laboratory medicine	general (balanced) laboratory haematology	more laboratory medicine than clinical medicine	more laboratory medicine (for haematology or immunology) than clinical medicine	← also general laboratory medicine and haematology	also general laboratory medicine		admission
1 y junior hospital practice or 2 ys general practitioner training (according to recent 66/457/EEC Directive)									BASIC MEDICAL EXPERIENCE	
6 ys undergraduate medical training									UNDERGRADUATE MEDICAL TRAINING	

\* experience in internal medicine, emergency medicine, intensive care, paediatrics, dialysis, surgery, obstetrics and other medical and surgical specialities

# Transfusion Medicine specialist: (1)

- *"the **specialist in Transfusion Medicine** is a medically qualified person, having a thorough knowledge and sound experience of **clinical medicine** and **laboratory medicine**, having achieved a specific training in **general haematology, immunology** and **blood transfusion practice**, who is capable to ensure a maximum of **efficacy** and **safety** -for the donor and for the recipient- for any procedure of blood transfusion,*

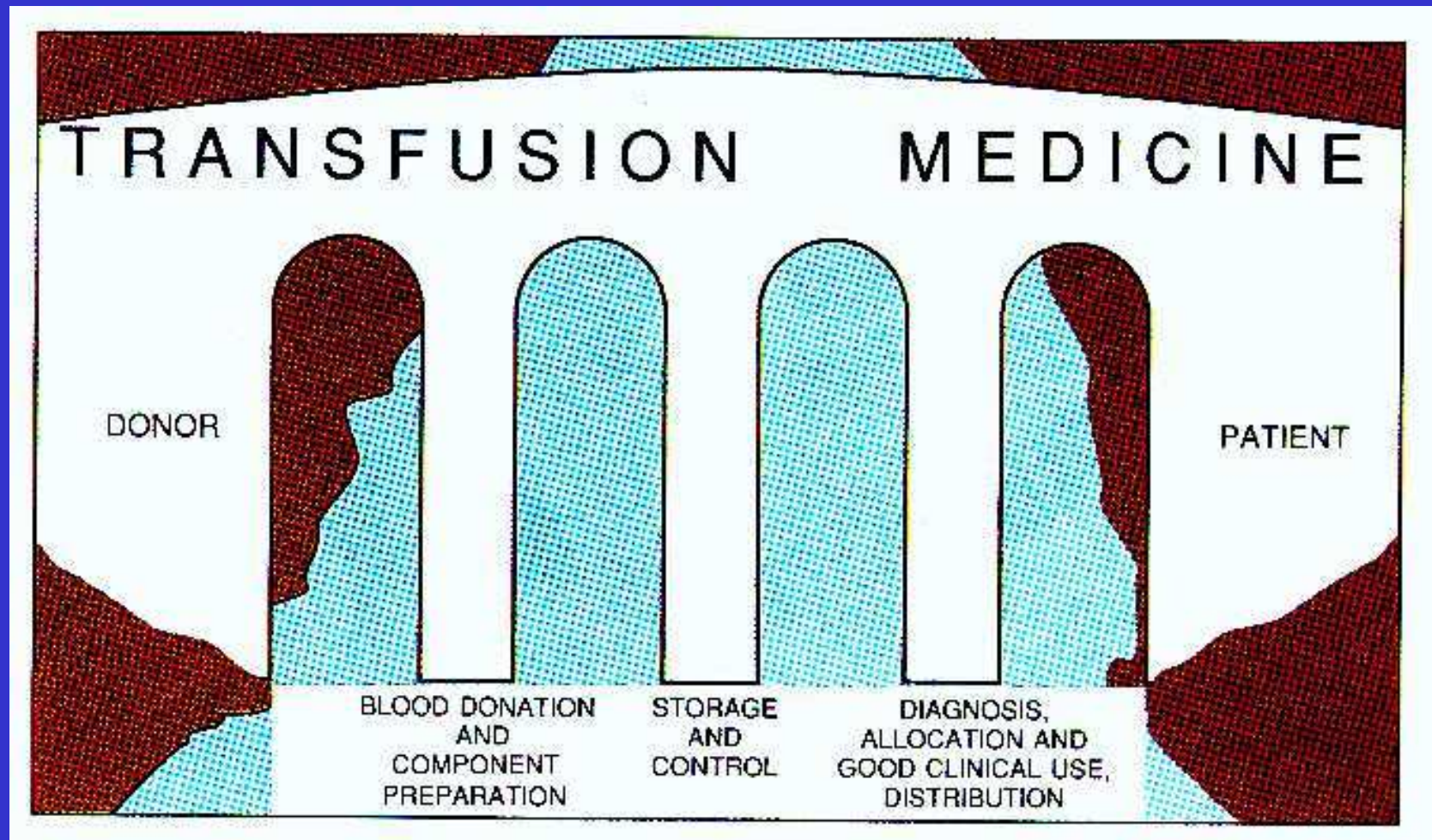
## Transfusion Medicine specialist: (2)

- *who is **responsible** for the **planning** and **organisation** of the collection, preparation, storage, distribution and optimal use of blood and blood products under a controlled scheme of **quality assurance**, who can assist and advise on any **diagnostic and therapeutic problem** of patients requiring transfusion,*



## Transfusion Medicine specialist: (3)

- *who is actively participating in **research and development** and who is able and willing to **teach Transfusion Medicine further** to doctors, medical students and any other collaborating professionals."*







# **Transfusion Medicine in Paediatric Haematology**

Proceedings of the ESTM residential course  
Moscow (Russia), 7<sup>th</sup> September 1992

*Edited by:*  
**U. Rossi, A.A.M. Todd**





# **Transfusion Medicine in clinical practice in the year 2000**

Proceedings of the ESTM residential course

Barcelona (Spain), 12<sup>th</sup> June 1993

*Edited by:*

**U. Rossi, W.G. Van Aken, C. Martín-Vega**



**Transfusion Medicine  
in clinical practice  
in the year 2000**

Proceedings of the educational course  
of the 4<sup>th</sup> ISBT Regional (3<sup>rd</sup> European) Congress

Barcelona (Spain), 12<sup>th</sup> June 1993

*Edited by:*

U. Rossi, W.G. Van Aken, C. Martin-Vega

Council of Europe  
Conseil de l'Europe



COMMISSION  
OF THE EUROPEAN  
COMMUNITIES

# Teaching of Transfusion Medicine to undergraduate medical students

Proceedings of the symposium of the 4<sup>th</sup> ISBT Regional  
(3<sup>rd</sup> European) Congress - Barcelona, 15<sup>th</sup> June 1993

*Edited by:*

U. Rossi  
H. Seyfried

**Widespread ignorance  
of basic principles  
of clinical transfusion practice**  
often due to **low basic knowledge  
of Transfusion Medicine**  
in most European Universities



The proposal of a distance-learning pluriennial specialisation course, leading to a **European specialist diploma of Transfusion Medicine**, has been discussed and approved by the ESTM Scientific Committee, and is waiting to find the way to overcome the many obstacles to this achievement. In the meantime, a coordinated **network of European educational centres** is being implemented.



# **The quality of clinical transfusion practice in Europe: a basic step to haemovigilance and transfusion safety**

**ESTM residential course**

**Skopje (Macedonia), 10<sup>th</sup>-14<sup>th</sup> September 2008**

***Coordinators:***

**S. Bakalova, M. Blagoevska, J. Barbara, U. Rossi**

# **MAIN TOPICS tackled in the 86 courses - 1**

*Promotion of voluntary blood donation*

*Detection and prevention of TTI*

*Blood safety and transfusion risks*

*Emergency Transfusion Medicine*

*Autotransfusion*

*Haemapheresis*

*Quality assurance and quality management*

*Immunohaematology and immunogenetics*

*Transplant immunology*

# **MAIN TOPICS tackled in the 86 courses - 2**

*Laboratory haematology*

*Diagnostics of haemostasis*

*Haemotherapy*

*Optimal use of blood*

*Clinical transfusion practice*

*Transfusion in Obstetrics*

*Transfusion in Paediatrics and Neonatology*

*Blood-sparing medicine and surgery*

*Haemovigilance*

*Prospects of Transfusion Medicine*



# **The Transfusion Medicine “Iberian courses” initiative: a critical analysis of 16 years educational dedication**

***Rossi U. \*, Muñíz-Díaz E. \*\*, Martín Vega C. \*\*,  
Sousa A.P. \*\*\*, De Sousa G. \*\*\****

*(\* ESTM President , Milano, Italy;*

*\*\* Barcelona, Spain;*

*\*\*\* Lisboa, Portugal)*



ESTM courses and initiatives,  
in the last years,  
have been increasingly taking place  
in **Eastern European countries**,  
touching so far  
Russia, Czechia, Slovenia, Croatia,  
Estonia, Poland, Romania, Slovakia,  
Bosnia-Herzegovina, Ukraine,  
Bulgaria, Serbia, Latvia, Albania and  
Macedonia.

# ***“Balkan-European” courses and work meeting***

organised since 2001

- **Sarajevo, 2001** (*1<sup>st</sup> “Balkan-European” course*)
- **Lecce, 2002** (*“Balkan-European” work meeting*)
- **Sofia, 2002** (*2<sup>nd</sup> “Balkan-European” course*)
- **Belgrade, 2003** (*3<sup>rd</sup> “Balkan-European” course*)
- **Antalya, 2004** (*4<sup>th</sup> “Balkan-European” course*)
- **Tirana, 2005** (*5<sup>th</sup> “Balkan-European” course*)
- **Skopie, 2008** (*6<sup>th</sup> “Balkan-European” course*)
- **Tirana, 2009** (*7<sup>th</sup> “Balkan-European” course*)
- **Tirana, 2010** (*8<sup>th</sup> “Balkan-European” course*)
- **Tirana, 2011** (*9<sup>th</sup> “Balkan-European” course*)

# Tradition of Balkan-European courses continuing with 3 courses in Tirana

- **First (2009)**  
*Transfusion safety:  
from the donor to the patient*
- **Second (2010)**  
*Transfusion efficacy:  
the relevance of hospitals and clinicians*
- **Third (2011)**  
*Transfusion Medicine:  
development in Albania and in Europe*



**The future of blood safety,  
a challenge for the whole Europe:  
*how can international regulations  
be implemented all over***

**ESTM residential course**

**Sarajevo (Bosnia-Herzegovina), 25-28 October 2001  
(1<sup>st</sup> “Balkan-European” course)**

***Coordinators:***

**J.A.J. Barbara, M. Blagoevska, M. Haračić, U. Rossi<sub>33</sub>**



# **Present and future problems of Transfusion Medicine in South-Eastern europe**

**ESTM residential course**

**Lecce (Italy), 5-6 June 2002**

***Coordinators:***  
**U. Rossi, G. Aprili**





# **The contribution of clinical medicine to blood safety**

ESTM residential course

Belgrade (Serbia), 9-11 October 2003

***Coordinators:***

**L. Walterová, V. Kretschmer, G. Bogdanović, U. Rossi**



# **Transfusion treatment of thalassaemia and other chronic anaemias**

Proceedings of the ESTM/ITSS residential course  
Antalya (Turkey), 20-25 April 2004

*Edited by:*  
**M. Bayik, D. Canatan, C. Politis, U. Rossi**



# **The essential contribution of Clinical Medicine to blood safety**

ESTM residential course

Tirana (Albania), 1-5 October 2005

*Coordinators:*

**J. Koistinen, V. Hafner, A. Gjata, U. Rossi**



# **The quality of clinical transfusion practice in Europe: a basic step to haemovigilance and transfusion safety**

**ESTM residential course**

**Skopje (Macedonia), 10<sup>th</sup>-14<sup>th</sup> September 2008**

***Coordinators:***

**S. Bakalova, M. Blagoevska, J. Barbara, U. Rossi**



# **Transfusion safety: from the donor to the patient**

ESTM residential course

Tirana (Albania), 4-8 March 2009

***Coordinators:***

**J. Koistinen, A. Massaro, I. Qendro Seferi, V. Durro, E. Nastas**





# **Transfusion efficacy: the relevance of hospitals and clinicians**

**ESTM residential course**

**Tirana (Albania), 3-7 March 2010**

***Coordinators:***

**J. Koistinen, A. Massaro, I. Qendro Seferi, V. Durro, A. Godo**



# **Transfusion Medicine: development in Albania and in Europe**

ESTM residential course

Tirana (Albania), 16-20 March 2011

***Coordinators:***

**J. Koistinen, A. Massaro, I. Qendro Seferi, V. Durro, A. Godo**



# **Medicina Trasfusional en/em Pediatria - Transfusión/Transfusão autóloga**

Conferencias/Lições del/do curso residencial ibérico  
de la/da ESTM

Lisboa (Portugal), 3-5 de Octubre/Outubro de 1996

*Editado por:*  
**C. Martín-Vega, G. de Sousa**



# **Inmunohematología/immunohematología de eritrocitos, leucocitos y/e plaquetas**

Conferencias/Lições del/do curso residencial ibérico  
de la/da ESTM

Barcelona (Spain), 27-29 de Noviembre/Novembro de 1998

*Editado por:*  
**C. Martín-Vega, G. de Sousa**



# **Calidad/Qualidade en/em Medicina Transfusional**

Conferencias/Lições del/do curso residencial ibérico  
de la/da ESTM

Lisboa (Portugal), 17-19 de Marzo/Março de 2001

*Editado por:*  
**C. Martín-Vega, G. de Sousa**





# Hemovigilancia/Hemovigilância

Curso Residencial Ibérico

*organizado en cooperación con:/em cooperação com:*

*Asociación Española de Hematología y Hemoterapia (AEHH),*

*Sociedad Española de Transfusión Sanguínea (SETS),*

*Associação Portuguesa de Imuno-Hemoterapia (APIH)*

Barcelona (España), 19-21 de Marzo/Março 2004

***Edited by:***

**C. Martín-Vega, G. de Sousa, E. Muñiz-Díaz**



# **Controversias y cuestiones emergentes en Medicina Transfusional**

## **Controvérsias e questões emergentes em Medicina Transfusional**

Curso residencial de la ESTM

Lisboa (Portugal),  
31 de Octubre/Outubro - 2 de Noviembre/Novembro de 2008

*Editado por:*  
**C. Martín-Vega, G. de Sousa, E. Muñiz-Díaz, A.P. Sousa**



# **Inmunohematología y gestación / Imunohematologia e gestação**

**Conferencias/Lições del/do curso residencial ibérico  
de la/da ESTM**

**Barcelona (España), 30 de Marzo/Março - 1 de/d' Abril de 2012**

***Editado por:***

***E. Muñiz-Díaz, C. Martín Vega, A. P. Sousa, G. de Sousa***



Sociedad Española de Transfusión  
Sanguínea y Terapia Celular











# **Seguridad en Medicina Transfusional**

Conferencias del curso de la ESTM  
organizado en cooperación con la  
Asociación Argentina de Hemoterapia  
e Inmunohematología

Buenos Aires (Argentina), 4 de Septiembre de 2001

*Editado por:*  
**S. Wendel, O.W. Torres**



# **Segurança transfusional no século XXI: desafios para a América Latina**

ESTM residential course

Itaparica-Bahia (Brazil), 30 May-1 June 2002

***Coordinators:***

**L. Amorim, J. Rosenblit, O. Torres, M.C. De Samaniego**



# **Contribuição da Medicina Clínica a segurança transfusional**

ESTM residential course

Rio de Janeiro (Brazil), 6 November 2005

*Coordinators:*

**L. Amorim, U. Rossi**



# **Aspectos fundamentales en la práctica de la Medicina Transfusional**

**Curso residencial de la ESTM**

**Lima (Perú), 22-26 de Septiembre 2010**

***Editado por:***

**J.M. Cárdenas, M. Delgado Burga, O.W. Torres**

Desarrollo “paralelo”

Latino-Américoano:

ESTM ? = “enzima catalítico”

Acting somehow as a “catalytic enzyme”  
-as the ESTM has sometimes been labelled!-  
does require a substrate  
not only **human**,  
but of **political and financial resources**  
often not available  
or discouragingly scarce.



After the courses in **Argentina** (2001),  
and **Brazil** (2002),  
the possibility of establishment  
of a **Latin-American  
ESTM-like initiative**  
is currently being discussed.

# Medicina Transfusional de Latino-América y de Europa

igual para todos:

¿sueño? → ¡realidad!

Puente:

más amplio y seguro

Medicina Transfusional:

mejor para todos



# **ESTM y América Latina: ¿Un puente hacia el futuro?**

U. Rossi \*, C. Martin-Vega \*\*

(\* Milano, Italia; \*\* Barcelona, España)

**Help** has been given  
to the **similar educational initiative** of

**“ATMC”**

(Arabic-speaking Transfusion Medicine Courses),

**developed since 2004**

(Egypt, Tunisia, Saudi Arabia, UAE, Syria)

**Widely different situations  
existing in today's Europe**

# Basic requirements

for acceptable safety  
of blood donation  
and Transfusion Medicine  
in all countries of Europe

1) "Transfusion Medicine" specialists?

2) Minimum core of Transfusion Medicine competence

- doctors
  - general practitioners
  - hospital specialist
- nurses
- technicians

3) National voluntary blood donation system with consideration of donors medical care



- 4) Feeling of belonging not only to national, but also to international (European) medical (transfusion) community
- 5) Proper cultural approach to blood safety and risk management
- 6) Widespread application of "quality" principles in the national quality management of Transfusion Medicine

# Ethically unacceptable aspects of clinical transfusion practice:

- **under-transfusion**  
due to justified fear of unsafe blood
- **uncritical mis-transfusion**  
due to incorrect clinical criteria

# Nearly all medical and transfusion problems in Europe

need to be addressed

- not *only* by **national measures**
- but *also* by a **common, “transversal”,  
regional approach**

Educational action  
**“from the bottom”**,  
in a friendly collegial atmosphere  
of **mutual help**,  
sharing experiences,  
trying to generate a **feeling  
of belonging** to a European  
Transfusion Medicine community.

One should **avoid** causing hidden resentment, in "receivers", against the **kind of initiatives** often taken by Western and International Organisations, when **money** is given more generously to **real or so-called experts** rather than being kept for **the real needs of the country**.

It is essential that, in any team,  
**both "experts"** from *"high-income"*  
and **"receivers"** from *"low-income"*  
countries  
should feel **equally engaged**  
and **responsible for common success**.  
Money and expertise alone  
do **not** automatically guarantee  
any positive outcome, unless  
**long-lasting human commitment**  
is present.

More generally,  
the **ESTM experience**  
has allowed to fully appreciate that  
*“transfusing medical science  
into medical practice”*  
is the real present challenge  
of Transfusion Medicine all over Europe,  
and should be felt  
as a **common responsibility**  
for anyone involved  
in European Transfusion Medicine.

The **activities of the ESTM**  
**in the last few years**  
have been oriented  
towards a more full appreciation  
of the paramount importance  
of the **contribution**  
**of clinical medicine to blood safety.**



# Clinical responsibilities of Transfusion Medicine - 1

- Clinical background
- Understanding clinical problems
- Collegial responsibility  
of clinical decisions on transfusion
- Haemostaseology
- Follow-up of outpatients  
under oral anticoagulant treatment
- Role in transplantation  
(peripheral stem-cell and cord blood  
collection and storage)

# Clinical responsibilities of Transfusion Medicine - 2

- Therapeutic haemapheresis
- Medical selection and care  
of regular voluntary blood donors
- Blood collection for auto-transfusion
- Productive haemapheresis
- Best clinical use of blood components  
by hospital clinicians

## Responsibilities of clinicians towards Transfusion Medicine

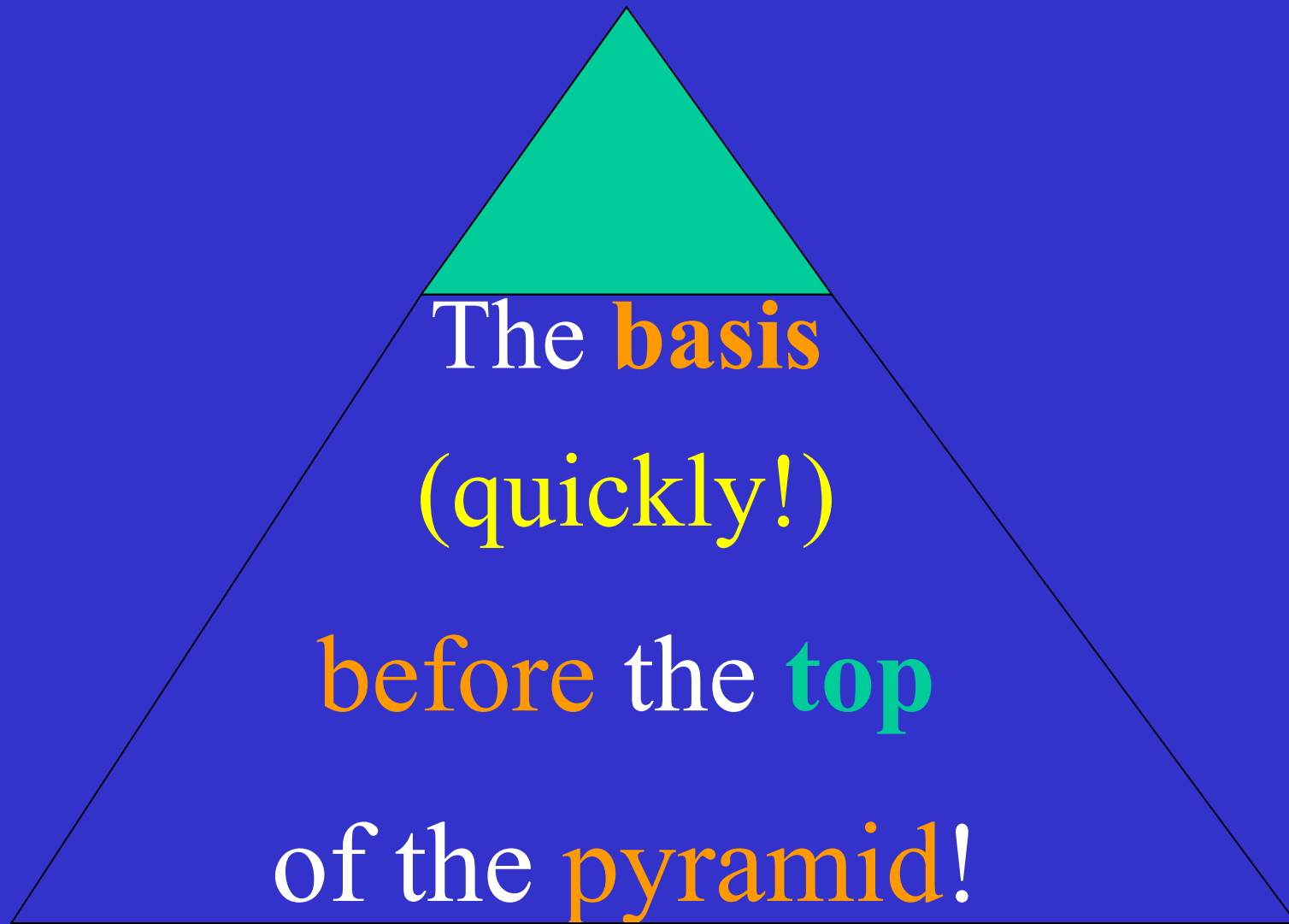
- Phasing out replacement donations
- Actively participating  
to Hospital Transfusion Committees
- Offering social and medical authority  
to publicly promote voluntary donation
- Contributing to scientifically clarify  
some medical misconceptions  
hindering safe blood self-sufficiency

# The European situation of clinical transfusion practice

- Blood-sparing medicine and surgery
- Basic requirements  
for an effective haemovigilance
- Contribution of Clinical Medicine  
to blood safety

# **Risk** **of an increasingly diverging quality** **of Transfusion Medicine in Europe**

- education
- political awareness
- human dedication



# Education to "quality management"

being

- fairly independent from financial resources
- rather addressed to human behaviour

can be considered

an adequate common tool

to progress towards blood safety

# Basic concepts inspiring quality management (1)

- results depending on **all** members of the system
- distribution of jobs according to **individual** role and ability
- clear definition of **roles**, integrated in a **general** frame
- awareness of **personal** responsibility, at **different** levels, under a **higher** coordination



## Basic concepts inspiring quality management (2)

- common desire of improvement
- understanding of advantages of written documentation
- feeling of the need of personal continuous improvement
- awareness of the need of training  
to increase personal abilities
- involvement of all members  
to look for and find out "non-conformities",  
and to report, correct and prevent them

## Basic concepts inspiring quality management (3)

- increased mutual knowledge  
and improved personal relationships
- easier acceptance of a shared discipline
- improvement of relationships with "customers"
- gratification for being recognised  
as "essential" to the system
- personal satisfaction and pride  
to belong to a "quality" system

**Most** "quality concepts"  
are **already** included  
in transfusion **working** concepts

**The main forms of teaching, learning and training  
practised in Transfusion Medicine  
correspond to the learning requirements  
imposed by quality systems**

# Quality before haemovigilance?

Can the future progress  
of European haemovigilance  
be based on the already existing "quality" behaviours  
and on a previously implemented  
quality-based transfusion management system?

**Haemovigilance based on quality:  
a challenge for scientific  
and professional engagement**

# Haemovigilance

is a **further** tool for **further** progress,

**NOT**

an **initial** tool for **basic** safety

that should be obtained by **quality management!**

- Clinical quality control  
in Transfusion Medicine ?
- or only quality control of
  - test results
  - and
  - blood components?



**Clinical medicine,**

*in order to provide patients  
with the safest possible blood,*

has much more to **give**

than to **receive,**

to **do**

than to **wait,**

to **care for**

than to **expect from**

Competent and effective  
professional interaction  
between

Transfusion Medicine  
and clinical specialists

**Prof. Cazal, Council of Europe, 1983:**

“to assure "Homo Europaeus"  
of the same security as regards transfusion  
-the same transfusion rights and duties-  
wherever he lived and travelled”

# Sviluppo della Medicina Trasfusionale in Albania verso standard europei di qualità

*Programma triennale  
di “gemellaggi”  
con Centri Trasfusionali italiani,  
basato su stages di formazione professionale  
in Italia,  
corsi residenziali e corsi di formazione  
in Albania,  
e partecipazione di medici albanesi  
a corsi residenziali ESTM  
in Europa.*



# **Transfusion treatment of thalassaemia and other chronic anaemias**

**Proceedings of the ESTM/ITSS residential course  
Antalya (Turkey), 20-25 April 2004**

***Edited by:*  
M. Bayik, D. Canatan, C. Politis, U. Rossi**



# **The essential contribution of Clinical Medicine to blood safety**

ESTM residential course

Tirana (Albania), 1-5 October 2005

*Coordinators:*

**J. Koistinen, V. Hafner, A. Gjata, U. Rossi**



# **Transfusion safety: from the donor to the patient**

ESTM residential course

Tirana (Albania), 4-8 March 2009

***Coordinators:***

**J. Koistinen, A. Massaro, I. Qendro Seferi, V. Durro, E. Nastas**



# **Therapeutic haemapheresis**

ESTM residential course

Genova (Italy), 16-18 November 1996

***Coordinators:***

**M. Valvonesi, P. Höcker**





# **Practical workshop on techniques in haemapheresis**

**ESTM residential course**

**Paris (France), 10-13 September 1997**

***Coordinators:***

**A. Bussel, P. Höcker, V. Krestchmer, A. Robinson**



# **Progressi scientifici e tecnologici in Medicina Trasfusionale**

Proceedings of the ESTM residential course

Roma (Italy), 20<sup>th</sup> – 23<sup>rd</sup> November 1997

*Edited by:*

**A. Iacone, U. Rossi**



**Therapeutic haemapheresis -  
- Diagnosis and transfusion treatment  
of emergencies in haemostatic disorders**

Proceedings of the ESTM residential course

Prague (Czech Republic), 12 - 15 November 1998

*Edited by:*

**P. Höcker, L. Walterová**



# **Present and future problems of Transfusion Medicine in South-Eastern europe**

**ESTM residential course**

**Lecce (Italy), 5-6 June 2002**

***Coordinators:***  
**U. Rossi, G. Aprili**



# **The essential contribution of Clinical Medicine to blood safety**

ESTM residential course

Tirana (Albania), 1-5 October 2005

*Coordinators:*

**J. Koistinen, V. Hafner, A. Gjata, U. Rossi**



# **Transfusion safety: from the donor to the patient**

ESTM residential course

Tirana (Albania), 4-8 March 2009

***Coordinators:***

**J. Koistinen, A. Massaro, I. Qendro Seferi, V. Durro, E. Nastas**



# **Transfusion efficacy: the relevance of hospitals and clinicians**

**ESTM residential course**

**Tirana (Albania), 3-7 March 2010**

***Coordinators:***

**J. Koistinen, A. Massaro, I. Qendro Seferi, V. Durro, A. Godo**



# **Transfusion Medicine: development in Albania and in Europe**

ESTM residential course

Tirana (Albania), 16-20 March 2011

***Coordinators:***

**J. Koistinen, A. Massaro, I. Qendro Seferi, V. Durro, A. Godo**





# **Immunogenetic aspects of blood transfusion and bone marrow transplantation**

Proceedings of the ESTM residential course

Ljubljana (Slovenia), 27- 29 May 1999

*Edited by:*  
**M. Bohinječ**



# **Organisational, technical and clinical aspects of cord blood banking**

**ESTM residential course**

**Pescara (Italy), 11-15 November 2009**

***Coordinators:***

**A. Iacone, J. Garcia, P. Wernet, T. Bonfini, P. Rebulla**

**Collaboration**  
with **already existing**  
active Institutions (ISBT,  
Council of Europe, WHO, IFRCRCS,  
FIODS/IFBDO, European Union)  
always felt as a driving concept.



## **Regional integration of Transfusion Medicine in South-Eastern Europe: the ESTM contribution and experience**

***Rossi U.\*, Bakalova S.\*\*, Burta O.L.\*\*\*, Dobrota A.M.\*\*\*\****

*(\* ESTM President , Milano, Italy;*

*\*\* National Centre of Transfusion Medicine, Sofia, Bulgaria;*

*\*\*\* Blood Transfusion Centre, Oradea, Romania;*

*\*\*\*\* Regional Blood Transfusion Service, Constanta, Romania)*



## **Transfusion Medicine regional education in medical emergencies: the ESTM experience**

***Rossi U.\*, Cárdenas J.M.\*\****

*(\* ESTM President , Milano, Italy;*

*\*\* ESTM Secretary, San Sebastián, Spain)*

# Roundtable

**“International co-operation  
in training in Transfusion Medicine:  
what has happened so far in Europe?”**

*Skopje, October 2008*



# Blood sparing through timely diagnosis and proper treatment of anaemia: preventive “erythrovigilance”!

***Rossi U.\*, Bakalova S.\*\*, Qendro I.\*\*\*, Rossini S.\*\*\*\****

*(\* ESTM President , Milano, Italy;*

*\*\* Head, Quality Assurance, National Centre Transfusion Haematology, Sofia, Bulgaria;*

*\*\*\* Director, Albanian National Blood Transfusion Centre, Tirana, Albania;*

*\*\*\*\* Director, Haematology and Transfusion Medicine, S. Raffaele Scientific Institute, Milano, Italy)*

## Anaemia in “surgical” patients

- a **risk factor** for mortality and morbidity in surgical patients
- **previously undiagnosed** anaemia relatively common in elective surgical patients
- **prevalence** of anaemia in surgical patients varies widely -from 5% to 76%- depending on the definition of anaemia used



# Optimal general principle

*Red cell-containing components*

*should **not** be used*

*to treat anaemias*

*that **can** be corrected*

*with specific medications*

## Main conclusive key-points of NATA guidelines

- pre-operative anaemia  
is a serious but **treatable** condition
- pre-operative haemoglobin measurement  
(28 days) should allow **time for treatment**
- abnormalities should be investigated  
and treated **before operation**

# A proper pre-operative “erythrovigilance”?

## *A proposal for an adequate organisation*

- pre-operative anaemia:
  - diagnosis, evaluation and treatment, so far a **frequently neglected** medical need
- **clinical advantage** of careful diagnosis and timely therapy:
  - treatment-induced erythropoiesis **effective before** surgery
  - improved Hb level greatly **limits the need** for pre-operative blood transfusions
  - reducing** post-operative depression of erythropoiesis
- **pre-operatively** stimulated erythropoiesis
  - keeping active **also** in the **post-operative** period

# Essential target

In every hospital,  
higher awareness of relevance  
of early discovery  
and proper treatment  
of any kind of pre-operative anaemia

# Preventive “erythrovigilance”

**Clinical results  
certainly higher  
than required  
professional and organisational  
engagement**

*blood is too important  
in our life  
to be left only to others!*

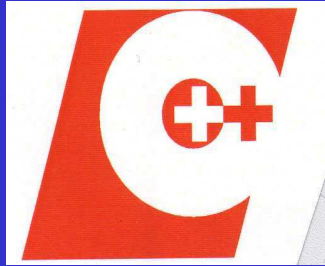
**Help** has been given  
to the **similar educational initiative** of

**“ATMC”**

(Arabic-speaking Transfusion Medicine Courses),

**developed since 2004**

(Egypt, Tunisia, Saudi Arabia, UAE, Syria)



# ACADEMIC TRAINING PROGRAMMES IN TRANSFUSION MEDICINE IN EUROPE

Damiano Castelli MD PhD, Lugano (Switzerland)



## **ACADEMIC TRAINING PROGRAMMES IN TRANSFUSION MEDICINE IN EUROPE**

**In collaboration with:**

**ESTM, European school of transfusion medicine.**

**UEMS, European union of medical specialists,  
(section of biopathology, commission of  
haematology and transfusion medicine )**

**Based on information obtained (spring 2005) from  
representatives of national TM Societies, from colleagues  
involved in the field of TM and from a consensus meeting  
held on July 2004 in Riga (Latvia) during an ESTM  
residential course.**



# **Appropriate use of plasma products**

ESTM residential course

Zagreb (Croatia), 14-18 November 2012

***Coordinators:***

**H.E. Heier, T. Burnouf, V. De Angelis, M. El Ekiaby**



Thank you!

*([www.estm.info](http://www.estm.info))*