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Guest Editors  
J. Martins e Silva  
J. Nogueira da Costa  
P. de Sousa Ramalho

## **II SYMPOSIUM ON CLINICAL HAEMORHEOLOGY**

### **PART I**

### **Biochemical and Physiological Approach**

MEETING HELD IN LISBON

October 12-13, 1984

**Sponsored by**

FACULDADE DE MEDICINA DE LISBOA  
INSTITUTO NACIONAL DE INVESTIGAÇÃO CIENTÍFICA  
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## PREFACE

This publication accounts to the Proceedings of the Second International Symposium on Clinical Haemorheology, held in Lisbon in November 12-13 of 1984, organized by the newly formed Portuguese Society of Haemorheology.

The First such meeting (International Symposium on Erythrocyte Deformability, Microcirculation and Vascular Pathology) was held in Lisbon in 1982. The success then obtained has given us courage and enthusiasm to raise a Society and to organize a new Symposium at least as successful as the First was.

The interest in blood rheology has continued to increase around the world, where new Methodologies and a variety of studies focusing on the multiple factors determining whole blood viscosity have been developed and published.

Although red cell deformability is one of the main factors of blood viscosity, other rheologic parameters deserve a better opportunity of discussion. Aware of all new developments in the field of Clinical Haemorheology, the objectives of the 1st Symposium, based on red cell deformability, were replaced by a different looking, now centred on the assessment of the other determinants of blood viscosity and their general clinical implications. That explains the designation of the present meeting, whose Proceedings are now issued.

Formal presentations have been asked to Prof. J. Stoltz (Nancy), Prof. J. Delaunay (Lyon), Dr. Thao Chan (Paris), Dr. D. Seiffge (Wisbaden), Dr. Barnes (London), Dr. Lowe (Glasgow) and, finally, to Dr. J.A. Dormandy (London), who once again, has given us the privilege of his kind collaboration in our meeting.

Also we had the pleasure to welcome some other colleagues from abroad, who have presented communications and granted a bright contribution to open discussions.

The topics were structured in six sessions (Biochemical and Physiological Approach, Methods for Haemorheology, Diabetes, Vascular Disease, Arterial Hypertension and Myocardial Ischaemia), preceded by a State of the Art Lecture and followed by a free communications session on miscellaneous haemorheological studies.

All the sessions were chaired by two moderators and spontaneous open discussion had the hallmark.

Although every attempt was made, the taped discussions can not be displayed in this Proceedings. Additionally, some of the free communications and special presentations to the sessions are not included, being published elsewhere by the authors. However, the final publication seems to be worthy and significant of a productive work and memorable occasion.

## ACKNOWLEDGMENTS

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Also the continued interest and generous support from our pharmaceutical sponsors and exhibiting companies deserve our best gratitude. Special thanks are addressed to Hoechst AG that has made possible this publication

Finally, we would welcome the opportunity to thank everybody who has helped in the meeting.

J. MARTINS E SILVA

# WELCOME

BY PROFESSOR DOUTOR A. RALHA

President of the Instituto Nacional de Investigação Científica

Mr. Director of the *Hospital de Santa Maria*, Mr. President of the *Sociedade de Ciências Médicas*, Members of the Organizing Committee of the 2nd International Symposium on Clinical Haemorheology, Ladies and Gentlemen.

The Secretary of State of Higher Education asked me to express its sincere thanks for the invitation to be present in this inaugural session.

Only very ponderous reasons have constrained him not to personally accept this invitation, so he was forced to let himself be represented. Thus, on his behalf, I wish, first of all, to welcome all the Foreign Congressists who came to Lisbon to share with their colleagues from different countries, here present, the latest results of their scientific research work.

This Symposium will be concerned with a matter of great actuality, haemorheology, i. e., the study of mechanical properties of Matter which is in an intermediate state between Solid and Liquid, so it also has an intermediate position between Elasticity and Hydrodynamics.

Haemorheology is thus an interdisciplinary domain where, in the last years relations have been established between haemorheological parameters and various pathologic situations and this has also led to the development of new analytical methods.

In your working sessions you will discuss these and many other important aspects. I sincerely wish that the exchange of knowledge and experience, made possible by this Scientific Meeting, may serve the progress of Medicine.