To Roger JELLIFFE, M.D.
Lab. of Applied Pharmacokinetics
Clinical Pharmacology
USC School of Medicine
Zonal Avenue 2011
Los Angeles, CA 90033
U.S.A.

Leuven, 28.11.1991

Dear Dr. Jelliffe,

I am pleased to formally let you know that the Working Conference on "Clinical Applications and Advanced Research Concepts in Pharmacokinetics" (Lyon September 21-23, 1992) has been approved during the Annual General Meeting of IMIA.

You should take further contact with the Publications Officer of IMIA, Prof. dr. ir. J.H. van Bemmel with respect to the publication of the Proceedings by Elsevier (North Holland) Publ. His address is as follows:
Prof. dr. ir. J.H. van Bemmel
Erasmus University
Medical Faculty
Div. Medical Informatics
P.O. Box 1738
3000 DR Rotterdam
The Netherlands
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Dear Dr. Jelliffe, I wish you success with your meeting and I look forwards seeing you at MEDINFO 92.

Sincerely Yours,

Prof. Dr. Jos L. WILLEMS
President, IMIA

cc. : Prof. dr. ir. J.H. van Bemmel
Dr. Marion Ball, President-Elect IMIA
Prof. Dr. B. Solheim, Secretary IMIA
CONFERENCE OBJECTIVES: This conference will deal primarily with estimation and control of pharmacokinetic (PK) and pharmacodynamic (PD) variability in antibiotic therapy. Day 1 will present new users the USC*PACK PC Clinical Programs for individualizing antibiotic dosage regimens. Day 2 will review the current status of population PK & PD modeling and optimal adaptive control of antibiotic therapy. Day 3 will present new research capabilities of the USC clinical software for population PK & PD modeling and antibiotic therapy.

WHO SHOULD ATTEND: Physicians, pharmacists, biologists, mathematicians and statisticians working in hospitals, universities, research centers and pharmaceutical companies. Day 1 will be primarily devoted to new practitioners in applied pharmacokinetics, Day 2 to those who want to increase their expertise in that field, and Day 3 to more advanced users who are currently employing clinical software in applied pharmacokinetics.

METHODS: Invited lectures, talks, demonstrations with PC and video projector, hands-on PC use, and oral and poster selected presentations on any relevant subject in clinical pharmacokinetics.

NB: The poster exhibition will be open for all three days. A panel discussion of the oral and poster presentations will be held the last afternoon.

PROCEEDINGS: Preprints should be available at the conference. The final proceedings, including the oral and poster accepted presentations, will be published later by Elsevier.

PROGRAM COORDINATOR: Pascal Maire,
Phone: (33) 72 32 3439
Fax: (33) 72 32 3438
PRELIMINARY PROGRAM - VERS. 3.2
OBJECTIVES: Presentation of concepts and use of clinical programs developed by the USC Laboratory of Applied Pharmacokinetics for adaptive control, for example, of antibiotic therapy.

WHO SHOULD ATTEND: physicians, clinical pharmacists, pharmacologists, biologists, working in hospitals, intensive care units, infectious units, nephrological and dialysis units, general medical wards, and pediatric, geriatric units; persons working for hospital information systems, in hospital computing centers, statisticians... This will be their first introduction to the USC Clinical Programs.

METHODS: Talks, Demonstrations with PC and video projector, and Hands-On Use.

MORNING: KEY CONCEPTS AND DEMONSTRATION

09:00 AM - Registration - Poster installation

09:30 AM - Welcome and Introduction
  - Dr. Roger Jelliffe (Los Angeles, USA)

09:40 AM - Clinical Concepts and Issues in Adaptive Control of Drug Therapy
  - Dr. Jelliffe

11:00 AM - Break

11:15 AM - Optimal Times to Obtain Serum Levels for Therapeutic Drug Monitoring
  - Dr. Jelliffe

12:00 N - Demonstration of the USC*PACK Clinical Programs for Adaptive Control of Amikacin (Part I)
  - Dr. Pascal Maire (Lyon, F)

12:30 PM - Demonstration of the USC*PACK Clinical Programs for Adaptive Control of Amikacin (Part II)
  - Dr. Christine Pivot - Dumarest (Lyon, F)

01:00 PM - Lunch

AFTERNOON: HANDS-ON USE OF THE SOFTWARE

02:30 PM - Hands-on Use of the Aminoglycoside Programs,
  - Dr. Jelliffe, Maire and Pivot-Dumarest

03:15 PM - Break

03:30 PM - Beginning the MB Program for general Modeling with Bayesian Fitting: Vancomycin Therapy
  - Dr. Xavier Barbaut (Lyon, France)

04:30 PM - Review and Discussion
  - Drs. Jelliffe, Pivot, Barbaut, and Maire

05:00 PM - Adjourn.

WHO SHOULD ATTEND: physicians, clinical pharmacists, pharmacologists, biologists, mathematicians, statisticians, scientists, from hospitals, universities, research centers, and pharmaceutical companies, with or without experience in using the USC*PACK PC or any other clinical programs for applied pharmacokinetics.

METHODS: Lectures from invited speakers with special expertise in their various fields.

08:30 AM - Registration - Poster installation

OPTIMAL ADAPTIVE CONTROL OF ANTIBIOTIC DOSAGE REGIMENS
Dr. Alain Venot, Chairperson (Paris, F)

09:00 AM - Clinical Pharmacokinetics in Chemotherapy of Infectious Disease: A Review
- Dr. George Drusano (Baltimore, USA)

09:30 AM - Adaptive Control of Antibiotics Using the Theory of Optimal Command
- Dr. Athanassios Iliadis (Marseille, F)

POPULATION PHARMACOKINETIC MODELING OF ANTIBIOTICS
Dr. Jean-Pierre Boissel, Chairperson (Lyon, F)

10:00 AM - Handling Covariates in Population Pharmacokinetics
- Dr. France Mentre (Paris, France)

10:30 AM - Hierarchical Bayesian Approaches to Population Modeling
- Dr. Adrian F.M. Smith (London, UK)

11:00 AM - Application of NPEM Population Program to Gentamicin in Pediatrics
Dr Roger W. Jelliffe (Los Angeles, USA)

11:30 AM - Break

PHARMACODYNAMIC MODELING OF ANTIBIOTIC EFFECTS
Dr. Pascal Girard, Chairperson (Lyon, F)

11:45 PM - Optimal Adaptive Control of Pharmacodynamic Effects with Aminoglycoside Antibiotics
- Dr. Rodolphe Garraffo (Nice, F)

12:30 AM - Mathematical Models for Bactericidal Activity
- Dr. Alain Pave (Lyon, F)

01:00 PM - Lunch
ENDOCARDITIS, PK-PD MODELING AND CLINICAL PRACTICE
Dr. Jean Freney, Chairperson (Lyon, F)

02:30 PM - Experimental Models for Endocarditis
- Dr. Claude Carbon (Paris, F)

03:00 PM - Intravascular Antimicrobial Distribution in Endocarditis: a Computer Model
- Dr. Jean-Maurice Vergnaud (Saint-Etienne, F)

03:30 PM - Break

OPTIMIZING THERAPEUTIC DRUG MONITORING:
NEW CLINICAL APPLICATIONS
Dr. Jean-Louis Brazier, Chairperson (Lyon, F)

03:45 PM - Optimal Experimental Design and Therapeutic Drug Monitoring
- Dr. Luc Pronzato (Paris, F)

04:15 PM - Optimal Sampling and Optimal Adaptive Control in Antibiotic Therapy
- Dr. George Drusano

04:45 PM - Adaptive Control in Cancer Chemotherapy
Dr. John Rodman (Memphis, USA)

05:30 PM - A session of Different User Groups of Clinical Programs
(Not limited to the USC*PACK PC USER Group!)

07:00 PM - An Evening Get-Together
in Old Lyon! (To be announced)
OBJECTIVES: (i) Presentation of new capabilities of the USC Clinical Programs and those for population and pharmacodynamic modeling, (ii) Selected communications in clinical pharmacokinetics, with discussion of the oral and poster presentations.

WHO SHOULD ATTEND: physicians, clinical pharmacists, pharmacologists, biologists, working in hospitals, intensive care units, infectious units, nephrological and dialysis units, general medicine wards, pediatric, geriatric units; Persons working for hospital information systems, in hospital computing centers, and statisticians. They may be old (or new from day 1) users of the USC* PACK PC Clinical Programs.

METHODS: (i) Talks, Demonstrations with PC and video projector, (ii) free oral presentations and panel discussion of the oral and poster presentations.

MORNING: POPULATION AND PHARMACODYNAMIC MODELING WITH THE USC*PACK PROGRAMS

09:00 AM - Registration - Poster installation

09:15 AM - Changing Population Models in Midstream with the USC*PACK Clinical Programs
- Dr. Jelliffe

09:30 AM - Demonstration of the NPEM Program for Population Modeling - Dr. Maire

10:00 AM - Development of the NPEM Multicenter Study: USCAMI2 for Amikacin - Drs. Jelliffe, Maire, Pivot

10:30 AM - Discussion, Suggestions

11:00 AM - Break

11:15 AM - The BOXES Program for Making Larger Kinetic and Effect Models - Dr. Jelliffe

12:00 AM - Some Models of Endocarditis
- Dr. Marie-Aude Confesson

12:30 PM - Review and Discussion
- Drs. Jelliffe, Confesson, and Maire

01:00 PM - Lunch
AFTERNOON: ORAL PRESENTATIONS IN CLINICAL PHARMACOKINETICS
Dr. Bruno Lacarelle, Chairperson (Marseille, F)

02:30 PM - 6 Oral Presentations in Clinical Pharmacokinetics
(Participants to be selected from abstracts submitted)

04:00 PM - Break

FINAL PANEL DISCUSSION IN CLINICAL PHARMACOKINETICS
Dr. Jean-Louis Steimer, Chairperson (Basel, CH)

04:15 PM - Panel Discussion of the Oral and Poster Presentations
Drs. Steimer, Drusano, Rodman

05:00 PM - Final Adjourn.
Drs. Maire, Jelliffe
ORGANIZING COMMITTEE

Pascal Maire, Pharm.D., Chairperson
Roger Jelliffe, M.D.
Jean-Louis Brazier, Ph.D.
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Gilles Aulagner, Ph.D., F.I.P.
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Amoére Hadj-Aïssa, M.D.
Pascale deCalbiac, Pharm.D.

TECHNICAL ASSISTANCE

TFI - Hexatour
Corine Percheron
Lionel Gourjux

SCIENTIFIC COMMITTEE

Roger Jelliffe, M.D., Chairperson (USA)
Pascal Maire, Pharm.D. (F)
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FACULTY

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Xavier Barbaut, Pharm.D.
George Drusano, M.D.
Jean-Pierre Boissel, M.D.
Adrian Smith, Ph.D.
Rodolphe Garraffo, Ph.D.
Jean Freney, Ph.D.
Jean-Maurice Vergnaud, Ph.D.
Luc Pronzato, Ph.D.
Marie-Aude Confesson, Pharm.D.
Christine Pivot-Dumarest, Pharm.D.
Pascal Maire, Pharm.D.
Alain Venot, Ph.D.
Athanassios Iliadis, Ph.D.
France Mentré, Ph.D.
Pascal Girard, Ph.D.
Alain Pavé, Ph.D.
Claude Carbon, Ph.D.
Jean-Louis Brazier, Ph.D.
John Rodman, Pharm.D.
Bruno Lacarelle, Ph.D.
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ADDRESSES FOR FURTHER INFORMATION

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