

CURRICULUM VITAE

KRAEMER RICHARD, MD
from Berne, Switzerland

1. PERSONAL INFORMATION

Date of birth: November 5, 1944
born in Koppigen (Switzerland)
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Academic appointment: Professor and Chairman of Paediatrics,
emeritus (31.01.2010)
Department of Paediatrics
University of Berne
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CH-3010 Berne, Switzerland

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2. DEGREES

Diploma of Physician	Swiss Confederation	1971
Thesis for M.D.	University of Berne	1972
Certification as Pediatrician and Pulmonologist (Federatio Medicorum Helveticae; FMH)		1979
Reader for Paediatric Respiratory Medicine	University of Berne	1984
Associate Professor of Paediatrics	University of Berne	1988
Extraordinary Professor of Paediatrics (Faculty Member) Medical Faculty, University of Berne		1994
Full Professor and Chairman Department of Paediatrics, University of Berne		1996-2010

3. POSTGRADUATE TRAINING

Dept. of Anesthesiology	University of Berne	1972
Dept. of Internal Medicine	District Hospital Langnau	1973
Dept. of Neurology	University of Berne	1975
Dept. of Paediatrics	University of Berne	1974
Dept. of Paediatrics	University of Berne	1976–1978

4. RESEARCH TRAINING

a. as fellow of the Swiss National Science Foundation: Clinical Physiology Laboratory, University of Liege, Belgium		1978-1979
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- b. Visiting fellow, Clinical Physiology Lab, Mount Scopus Hadassah University, Jerusalem, Israel 1992
- c. Visiting fellow, Service de Pneumologie Pédiatrique, Hôpital Trousseau Paris, France 1994

5. ACTIVITIES IN CLINICAL ROUTINE WORK

- a. From 1979 till 1992, in rotation with an other senior consultant and 4 chief residents, engaged for the following routine hospital work:
- b. Tutor of interns in: children with infection diseases and respiratory diseases including cystic fibrosis
- c. Tutor of interns in: infants after prematurity, hyaline membrane disease (HMD) or chronic lung diseases (CLD), young children with cardiac, pulmonary, gastrointestinal, genetic, developmental, neurological, endocrinological, metabolic and nephrological diseases
- d. Tutor of interns on the **Division of Paediatric Ambulatory Medicine**: infants and children with immunologic, infectious, pulmonary, nutritional, nephrological, dermatological, developmental and psychological problems.
- e. **Paediatric Emergency Service**: infants and children with all Paediatric emergency problems
- f. **"24 hour On Call Service"** as senior chief resident for the whole Paediatric Clinic, excluding Intensive Care.
- g. Senior Reader in Paediatric Respiratory Medicine (wheezy bronchitis, chronic lung disease, asthma, allergic diseases, cystic fibrosis)
- h. Head of the Lung function lab (children and babies)
- i. Clinical duties as Chairman of the Department of Paediatrics

6. CLINICAL MANAGEMENT, STRUCTURES AND ORGANIZATION

- a. Head of the Division of Paediatric Ambulatory Medicine
- b. Finances: budgeting and supervision of routine (Inselhospital) and research (Institutskredite, Forschungsfonds) funds
- c. Clinical Organization: Mid- and long-range planning; Computer Technology, Logistic Functions
- d. Head of the Department of Paediatrics with
 - i. Re-Organization of the clinic structure (matrix organization)
 - ii. Set-up of a Committee for Ethics in Children
 - iii. Set-up of a Board of Paediatric Specialists
 - iv. Set-up of a Board of Paediatric Research
 - v. Set-up of a Board of Medical Education and post-graduated training
- e. Public relation- and fund raising concept (Batzebär)
- f. Member of the financial board of the Medical Faculty
- g. Member of various boards and committees of the University Hospital

7. STUDENT EDUCATION

- a. Coordinator of Last-year MD students (Wahljahrstudenten) including weekly seminars, Teaching rounds in General Paediatrics (Blockunterricht, Gruppenunterricht), Lectures in Paediatric Pulmonology, Workshops in Lung physiology and Paediatric Respiratory Medicine, Organizer of various national and international meetings in Paediatric Pulmonology and Cystic Fibrosis until 1996
- b. Introduction to the "Gruppenunterricht" and "clinical skills"
- c. Introduction to the "Blockunterricht"
- d. Lectures in General Paediatrics and Paediatric Respiratory Medicine
- e. Teaching Rounds (Chefarztvisite) twice weekly
- f. Re-Organization of the final exam (Staatsexamen)

8. SPECIAL FIELDS OF CLINICAL AND RESEARCH INTERESTS

- a. **in children**: Paediatric Respiratory Medicine: Bronchial asthma, Cystic fibrosis, Interstitial lung diseases, Status after infant respiratory distress syndrome, (iRDS) and chronic lung

- disease (CLD), Pulmonary physiology in childhood (lung elasticity, exercise testing, control of breathing, interrupter technique, bronchial hyperreactivity)
- b. **in infants:** infants lung function testing (whole-body plethysmography, interrupter technique, multibreath nitrogen washout (MBNW))
 - c. **Signal processing:** Mathematical treatment of analogous signals with (interrupter technique) advanced computer technology, including computer programming (Basic, Fortran, Pascal, Macro routines)
 - d. **Follow-up studies in Cystic Fibrosis** based on the Bernese CF-Registry (1978-2008) with 204 well documented cases followed over age range of 20 years.

9. AWARDS

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| E. Arnold-Gedenkpreis
given by the Swiss Society of Pneumology for the work:
"Gas Exchange and Lung Mechanics in Advanced Stages
of Cystic Fibrosis (CF)" | 1988 |
| Guido-Fanconi Gedenkpreis
given by the Swiss Paediatric Association as
Distinction for global activities in the field of Research in Paediatrics | 1988 |
| Adalbert-Czerny-Medal
given by the German Paediatric Association for
"Response-characteristics of systemically given beta agonists in infants with
broncho-pulmonary disease". | 1988 |
| Award of the Swiss Society of Pneumology
for the best oral presentation at the Annual Meeting in Lausanne
"Follow-up of lung function in infants and children with cystic fibrosis.
Swiss Medical Weekly; 2010 140: suppl. 179:5S" | 2010 |

10. TRAINING OF RESEARCH FELLOWS

- a. M.H. Schöni
thereafter 2 years training in the Faculty of Pharmaceutical Science, University of British Columbia, Vancouver, Canada and the Department of Pediatric, University of Tucson, Arizona, USA, chief of the "Alpine children's Hospital" Davos, Switzerland.
actually: Professor and Head of the Division for Paediatric Ambulatory Medicine, Department of Paediatrics, University of Berne
- b. B. Meister
after completed the special training for anesthesiology and intensive care, vice-chief of the Section for anesthesiology and intensive care, Regionalspital, Thun, Switzerland.
- c. F. Sennhauser
thereafter 2 years training as research fellow of the Swiss National Science Foundation in the Department of Thoracic Medicine, Melbourne, Australia,
actually; Professor and Chairman, Department of Paediatrics, University of Zürich.
- d. P. Birrer
thereafter 2 years as research fellow in the National Institute of Health (NIH), Bethesda, Maryland, USA; actually Senior Resident, Department of Pediatrics University of Berne
- e. S. Braggion
Head of the Cystic Fibrosis Center, Verona, Italy

- f. H. Meyer
Chief Resident in the Dept. of Paediatrics University of Würzburg, Germany
- g. P. Bohounek
actually Head of the Paediatric Pulmonary Unit, Dept. of Paediatrics, University of Prague, CSSR.
- h. U. Frey
Research Project of the Swiss National Science Foundation (1989-1990), thereafter Research Fellow at the Department of Biomedical Engineering, Boston University (A.C. Jackson, PhD) Boston (1994), thereafter Research Fellow of the SNSF in the Hammersmith Hospital (M.Silverman), London (1994-1996)
actually: Professor of Paediatrics, Head of the Division of Paediatric Respiratory Medicine, Department of Paediatrics, University of Berne, ,
actually: Professor and Chairman, Department of Paediatrics, University of Basel.
- i. A. Schibler
Research Fellow of the Swiss National Science Foundation (1991-1993)
actually: A/Prof., Intensive Care Staff Specialist FJFICM Mater Health Services Mater Children's Hospital, Raymond Terrace, South Brisbane, Qld 4101, Australia
- j. J. Seligmann
Senior Resident, Children's Hospital, Luxembourg (1991)
- k. W. Kamin
Research Fellow of the University Children's Hospital of Mainz, Germany (1993)
- l. C. Casaulta Aebischer
Research Fellow of the Swiss National Science Foundation (1993-1994)
- m. U. Graf
Research Fellow (Study Monitoring of a multicentre study; Glaxo England) 1993-1995
- n. W. Tennhoff
Research Fellow of the Swiss National Science Foundation (1995-1997)
- o. M. Weder
Research fellow of the Marie Vögtli Stiftung; Swiss National Science Foundation (1993-1995)
- p. K. Kadlicova
J.A. Komensky - University Hospital, Bratislava, Slovakian Republic

11. INVENTIONS

Patent of Prior Art

The Babyhaler™ inhaler, an inhalation chamber for use with aerosol inhaler

UK Patent Application GB 2 230 456-A 1990

United States Patent US 5 427 089 1995

Patent of Prior Art

The Isoflow Whistle® (IfloPen™), a device for recording data concerning the breathing of a subject in order to measure isoflow volume characteristics in ambulatory praxis

UK Patent Application No 9104201.0 1998

12. LIST OF PUBLICATIONS

Thesis for M.D.	1
Thesis for Readership in Paediatric Respiratory Medicine	1
Original Papers	92
Reviews	58
Editorials	5
Books	13
Articles in Handbooks, Series and Supplements	45
Abstracts	277
Headmaster of thesis for M.D.	42
Headmaster of thesis for readerships (PD)	2

13. MEMBERSHIP OF LEARNED SOCIETIES

Swiss Paediatric Association
Swiss Pneumology Association)
American Thoracic Society (ATS)
European Respiratory Society (ERS)
European Working Group for Cystic Fibrosis (EWGCF)
European Cystic Fibrosis Society (ECFS)
Deutsche Gesellschaft für Kinderpneumologie
European Society of Pneumology (SEP) (Paediatric Working Group

14. OFFICES HELD IN PROFESSIONAL SOCIETIES

Secretary of the European Paediatric Respiratory Society	1980-1983
Secretary of the European Working Group for Cystic Fibrosis	1979-1986
Executive, Medical/Scientific Advisory Council of the International Cystic Fibrosis (Member) Association ICF(M)A	1985-1988
Board member of the Swiss Lung Association	1987-1993
President of the Medical Board of the Swiss CF Association	1991-1998
Chairman, Pediatric Respiratory Physiology, Paediatric Assembly of the European Respiratory Society (ERS)	1993-1996
Vice-Chair of the Excellence Research Board of the Ludwig Maximilian University (LMU), Munich	2006-

15. EDITORIAL WORK / EDITORIAL BOARD ACTIVITIES

Associate European Editor of the Pediatric Research European Section Editor for Selected Abstracts of the Pediatric Pulmonology	1983-1996
Wissenschaftlicher Beirat: Zeitschrift für Erkrankungen der Atmungsorgane	1984-1992
Editorial Board Respiration	1987-1991
Editorial Board Kinderpneumologie	1989-2005
Editorial Board of the European Journal of Pediatrics	1991-1998
Committee on Infant Respiratory Function of the American Thoracic Society and the European Respiratory Society	1992-1998
Editorial Board of the Revue de Pneumologie Clinique (Paris)	1992-2004

16. REVIEWER FOR INTERNATIONAL JOURNALS

Amer. J. Respir. Crit. Care Medicine
Thorax
Eur. Respir. J.
Pediatr. Pulmonol.
Respiration
J. of Cystic Fibrosis
Pediatric Research

Eur. J. Clin. Invest.
Eur. J. Pediatr.
Swiss Weekly Medicine
Helv. Paed. Acta
Biology of the Neonate
Experientia
Pediatr. Gastroent. and Nutrition
Internat. J. of Sports Medicine
Clin. Respir. Physiol.
Pädiatrie und Pädologie
Rev. Mal. Respir.
Intensive Care Medicine
Int. Arch. Allergy Immunol

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