

Erwin Kuntz
Hans-Dieter Kuntz

HEPATOLOGY

PRINCIPLES AND PRACTICE

History · Morphology
Biochemistry · Diagnostics
Clinic · Therapy



Springer

Kuntz / Kuntz † · Hepatology, Principles and Practice

Erwin Kuntz · Hans-Dieter Kuntz †

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History · Morphology
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Clinic · Therapy

With 380 Coloured Illustrations and 276 Tables



Springer

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Auf dem Kronberg 6

D-35582 Wetzlar
Germany

ISBN 978-3-662-04682-1

Library of Congress Cataloging-in-Publication Data
Kuntz, Erwin

[Praktische Hepatologie. English]

Hepatology : principles and practice : history, morphology, biochemistry, diagnostics, clinic, therapy / Erwin Kuntz, Hans-Dieter Kuntz.
p. ; cm.

Includes bibliographical references and index.

ISBN 978-3-662-04682-1 ISBN 978-3-662-04680-7 (eBook)

DOI 10.1007/978-3-662-04680-7

1. Liver-Diseases. I. Kuntz, Hans-Dieter, b. 1948. II. Title.

[DNLM: 1. Liver Diseases-diagnosis. 2. Liver Diseases-therapy. WI 700 K963p 2001a]

RC845.K8613 2001 616.3'62-dc21 2001049858

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<http://www.springer.de>

© Springer-Verlag Berlin Heidelberg 2002

Originally published by Springer-Verlag Berlin Heidelberg New York in 2002

Softcover reprint of the hardcover 1st edition 2002

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Cover design: Design & Production, Heidelberg

Typesetting: pagina media gmbh, Hemsbach/Bergstraße

Printed on acid-free paper

SPIN 10880509

22/3130

5 4 3 2 1

I have dedicated the **German edition** of the book “Praktische Hepatologie” (1998) to:

my unforgettable son *Hans-Dieter*
whose knowledge and manual skill I have always admired,
whose critical as well as creative ideas for our joint book were
so valuable,
who did not live to see the completion of this, our work as a
co-author

dedicated in love and gratitude

The **English edition** of the book “Hepatology · Principles and Practice” (2001) is
dedicated – also at my son’s request – to:

Dr. med. Dr. rer. nat. *Herbert Falk* (Freiburg)
the most generous patron of hepatological research
and further education,
the initiator of worldwide, international hepatology

dedicated in admiration and friendship

The Authors



Prof. Dr. med. Dr. med. h. c. Erwin Kuntz

After having worked for 16 years at the Medical University Clinic in Giessen (6 years as senior physician), he spent 20 years as head physician at the Internal Department of the General Hospital in Schwäbisch Hall and at the Internal Department of the General Hospital in Wetzlar. For 40 years, he has taken an active part in the postgraduate education of physicians; he has been an organizer of scientific congresses for many years. He obtained numerous national and international awards and honorary memberships as well as the Honorary Doctorate of the University of Debrecen/Hungary and the “Great Order of Merit of the Federal Republic of Germany.”



Prof. Dr. med. Hans-Dieter Kuntz

Specialization (in internal medicine) in Duisburg. In 1980, he became senior physician at the Department of Gastroenterology/Hepatology of the University Hospital in Bochum. After 1989, he was head physician at the Department of Internal Medicine and Gastroenterology at Augusta Hospital in Bochum. He took an active part in the postgraduate education of physicians for 17 years. He was granted honorary membership of the Society of Gastroenterology of Uruguay (1993) and became a Fellow of the European Board of Gastroenterology (EUMS) (1996).

Preface

It is a wonderful experience for a father to work with his son on an enormous number of lectures, seminars, courses, congresses and publications over a period of many years. For a total of 35 (overlapping) years we were both active as clinicians in the field of hepatology. From this experience arose our wish to co-author a book on this fascinating subject. We were greatly encouraged in this project by friends and colleagues. • The joint work, supported by an extensive personal archive, a large number of clinical, endoscopic and morphological illustrations, and documentation of imaging technique findings, is intended to serve as a *teaching manual*, a *textbook*, and a *reference book* – for use in the doctor’s surgery, in daily clinical practice, and in the specialist fields associated with hepatology.

After weighing up the various approaches and objectives of the book, the *concept* of subdividing the subject matter into 40 self-contained chapters presented itself. We set value on: – a systematic structure of the chapters, – a coherent presentation of facts and evidence, – a visually comprehensible arrangement of the text into sections, incorporating various script sizes and types, – half-tone colouring of tables and conclusions considered to be of exceptional importance, – consistent cross-referencing of figures, tables and text between different chapters, and the incorporation within the text of 276 tables, 380 figures, and numerous boxed texts (all in colour). • A big, black dot is inserted whenever the following sentence represents a mental leap from the preceding statement, which enables a more structured approach. • Our constant aim was to improve the readability and clarity of the book.

Each chapter has an extensive *bibliography*. We used a modified Vancouver-style layout, which we consider clear and easy to read. Authors’ names (all authors are listed in full in the chapter bibliography) appear in semi-bold type and are ordered alphabetically for easy reference. As far as possible, we subdivided more extensive chapter bibliographies thematically. A total of 7,300 *publications* up to 2001 are cited. This detailed bibliography is intended to assist the interested reader in exploring specific areas in more depth. • We have therefore included both historical references and those older publications which we consider of particular significance or interest – there is always the danger, in hepatology as well as in other fields, that such works might regrettably become victims of our fast-moving times. There is certainly a subjective influence in this selection, and in this context any additions or corrections to the bibliography will be gratefully received.

A further conceptual concern was to cite, whenever possible, the *first authors* of publications on syndromes, clinical research, laboratory parameters, imaging or endoscopic techniques, morphological findings of special interest, and conservative, invasive and surgical procedures (and to correct previous information given in the literature). In the past, the creative or innovative ideas of these inaugurators have often led directly to significant progress or have served as a new starting point for subsequent, ground-breaking developments. Despite arduous research, it has not always been possible to attribute work correctly to the first author(s). Yet, the notable achievements of earlier physicians, clinicians and scientists deserve to be remembered with respect! In this connection, further information or corrections will be welcomed.

The extensive selection of *colour illustrations* incorporated into the text covers a wide range of clinical and morphological findings in hepatology: it is designed to lead from “*seeing*” to “*understanding*”, thereby facilitating diagnostic and therapeutic “*acting*”. Although we had collected an extensive picture archive of our own over a period of more than 30 years of clinical practice, we were nevertheless able to complement this and close any gaps thanks to numerous illustrations and impressive findings generously made available to us by colleagues. My special thanks for their friendly assistance go to the pathologists Prof. Dr. H.-P. Fischer (Bonn) and Prof. Dr. O. Klinge (Kassel), and to the radiologists Prof. Dr. G. Bargon (Ulm) and Prof. Dr. R. Heckemann (Bochum). Some very valuable documentations of findings could be used by courtesy of Prof. Dr. J. Eisenburg (Munich), Prof. Dr. Th. Gheorghiu (Cologne), Prof. Dr. K.-M. Müller (Bochum), Prof. Dr. G. Piekarski (Bonn), Prof. Dr. K. Rauber (Wetzlar), Prof. Dr. H. Thaler (Vienna), Prof. Dr. G. Volkheimer (Berlin), Prof. Dr. O. Vorländer (Berlin), and Prof. Dr. W. Wermke (Berlin).

We repeatedly enlisted the *helpful advice* of friends and colleagues to supplement or confirm our own interpretations. Our opinions not infrequently diverged (and in the field of hepatology, this can only be an advantage) and personal opinions were modified or confirmed. The contacts arising from these discussions have been immensely rewarding to me. Here I should like to express my special thanks to: Prof. Dr. G. Berencsi (Budapest), Prof. Dr. J. Feher (Budapest), Prof. Dr. R. Klein (Tuebingen), Prof. Dr. K.-J. Paquet (Hannover), Prof. Dr. H. Seitz (Heidelberg), Prof. Dr. W. Storch (Weinheim), and Prof. Dr. E. Wildhirt (Kassel). • Very many thanks for advisory

support also go to: Prof. Dr. H.-R. Duncker (Institute of Anatomy, Univ. of Giessen), Dr. M. Horster (Institute of Classics and Ancient History, Univ. of Cologne) and Prof. Dr. N. Katz (Institute of Biochemistry, Univ. of Giessen). • Receiving such varied and kind assistance and advice has filled me with gratitude and encouragement during the years spent compiling this book.

In preparing the book my thoughts and my loving gratitude have constantly been with my son, *Hans-Dieter*, whose death was so sudden and incomprehensible to us all. I have tried to represent his inspirations and detailed ideas as well as incorporating his particular clinical insights. This volume is thus our joint life's work. He will always be remembered as an example to us all.

At the beginning and end of the book I have purposely cited two quotations from PARACELsus which have always made a deep impression on me. • In the course of such intensive engagement with the history of hepatology, one is repeatedly filled with respect and admiration for how our forebears, solely through sight, hearing and touch, and an ingenuity of meth-

ods – and through logical deduction – drew medical conclusions, recognized correlations and established an astounding body of theoretical and practical knowledge. Many of these empirical findings were subsequently confirmed – some (still) remain “empirical”, without, however, having been disproved. “*Empiricism, Intuition and Logic*” (Prof. Dr. R. Gross, Cologne, 1988) will always be the leitmotif of the physician! • The considerable and fascinating developments in hepatology, especially those of the last ten years, remain a central theme. • The current stage of this development may well become known as the 4th (biomolecular) epoch of hepatology, as I have proposed in the first chapter of our book.

Finally, my thanks to the employees at *Springer* for the speedy completion of this book and especially to Jörg Engelbrecht and Dr. Dorothee Guth for their encouragement and kind support at all times.

Wetzlar, July 2001

Erwin Kuntz

As regards the *half-tone colouring* and colour intensity, blue is used – as far as possible – for normal findings, classification, causes, indications, therapy regimen, etc., red applies to pathological findings, contraindications, complications, side-effects, etc., yellow to methods, test procedures, etc., and grey to historical details.

Medical and technical terms, orthography and hyphenation in this textbook are based on: (1.) P. PROCTER (editor): Cambridge International Dictionary of English (Cambridge Univ. Press) 1999, 3rd edition; (2.) J. CROWTHER (editor): Oxford Advanced Learner's Dictionary (Oxford Univ. Press), 1999, 5th edition; (3.) J. DORLAND, W.A. NEWMAN (editors): Illustrated Medical Dictionary (W.B. Saunders, Philadelphia, et al.), 2000, 29th edition; (4.) F.J. NÖHRING (editor): Langenscheidt's Fachwörterbuch Medizin (Langenscheidt, Berlin, et al.), 1996, 3th edition; (5.) W.E. BUNJES (editor): Medical and Pharmaceutical Dictionary (Thieme, Stuttgart, et al.), 1985, 4th edition; (6.) S. DRESSLER (editor): Dictionary Clinical Medicine (Chapman & Hall, London, et al.), 1996.

Frequently used *abbreviations* and *symbols* in the textbook are listed in alphabetical order below:

s. fig.	see figure	ca.	circa	a.-v.	arterio-venous
s. figs.	see figures	e. g.	exempli gratia, for example	BW	body weight
s. p.	see page	etc.	et cetera, and so on	i. m.	intramuscular
s. pp	see pages	i. e.	id est, that is	i. v.	intravenous
s. tab.	see table	quot.	quoted, quotation	s. c.	subcutaneous
s. tabs.	see tables	vs	versus	v. v.	vice versa, conversely

Foreword

The textbook “Hepatology. Principles and Practice” by Erwin Kuntz and Hans-Dieter Kuntz will undoubtedly become an international landmark. It reflects the scholarship, encyclopedic knowledge of the authors and the outstanding craftsmanship of the publishers. Professor Erwin Kuntz’s stature was not only well established in Germany and the rest of Europe but his fame had crossed the Atlantic and I have known of him for many years. I also had the privilege of getting acquainted with him personally at an international meeting on phospholipids in Cologne in 1989 where I had the pleasure of enjoying both his intellectual and his broad humanistic qualities.

The book is not only an unusual combination of an extremely thorough textbook of all aspects of hepatology, including important pathogenic mechanisms and their clinical application, but it also has a very didactic approach which effectively highlights most points while not neglecting those details the academician or practitioner may want to find for needed clarification. It synthesizes more than 30 years of practical experience in clinical hepatology. Accordingly, it can be used as a teaching manual for students, post-graduate clinicians and practitioners, as a textbook for internists, gastroenterologists and hepatologists, as well as a reference book for teachers, scientists and authors. The original text has been revised and updated to 2000/2001. The bibliography now consists of about 7,300 papers and the number of colored figures has been increased to 380. It is a distillate of hundreds of personal publications and presentations and thousands of literature references of classic and contemporary scholars. The information is presented

in such a way that it makes the facts very accessible and the chore of retrieval becomes a pleasure. The very vivid display of information gives unique insights providing a very rational approach to the practice of hepatology. This volume brilliantly achieves the basic aim of its authors, which is to guide the user from “seeing” to “understanding” and finally to “acting”.

The book could have come at no better time. There is real blossoming of hepatology worldwide and its importance has increased logarithmically with the availability of transplantation and the pandemic of hepatitis C, with effective treatments finally evolving. Diagnostic procedures have also gained much greater sophistication and “interventional” hepatology is now finally on the rise. Being familiar with German, I had the pleasure of enjoying the original textbook but felt envious that this opus was limited to those fluent in that language. I am delighted to see that this work will now be shared worldwide in an English edition which has been thoroughly updated, with the most recent concepts and therapies reported and carefully assessed. Its comprehensive yet crisp and clear presentation will open the gates of hepatology to all health professionals. Last but not least, this work represents the highly humanistic qualities of its authors and is obviously an act of life time love, with abundant citations not only to our modern masters, but also giving proper credit to those who preceded them. Hippocrates already stated that the liver was the site of the soul; it is obvious that both Erwin Kuntz and his son, Hans-Dieter, have put their souls in this opus.

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*“... because the liver is a source of many diseases,
and is a noble organ that serves many organs,
almost all of them: so it suffers, it is not a small
suffering, but a great and manifold one”*

Theophrastus Bombastus von Hohenheim,
known as PARACELUS (1493–1541)

(Liber tertius paramiri, de morbis ex Tartaro.
St. Gallen, 1531)

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