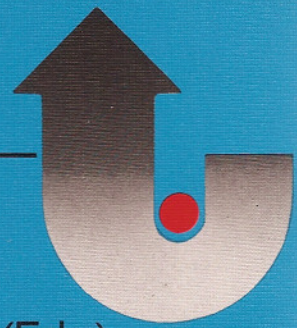


Health Systems  
Research



R. Leidl P. Potthoff D. Schwefel (Eds.)

# European Approaches to Patient Classification Systems



Springer-Verlag

Reiner Leidl Peter Potthoff  
Detlef Schwefel (Eds.)

# European Approaches to Patient Classification Systems

Methods and Applications Based on  
Disease Severity, Resource Needs, and Consequences

With 9 Figures and 28 Tables



Springer-Verlag Berlin Heidelberg New York  
London Paris Tokyo Hong Kong



Dr. Reiner Leidl  
GSF-Institut für Medizinische Informatik und Systemforschung  
Ingolstädter Landstraße 1, 8042 Neuherberg, FRG

Dr. Peter Potthoff  
Infratest Gesundheitsforschung GmbH & Co.,  
Landsberger Straße 338, 8000 München 21, FRG

Professor Dr. Detlef Schwefel  
GSF-Institut für Medizinische Informatik und Systemforschung  
Ingolstädter Landstraße 1, 8042 Neuherberg, FRG

---

Publication No. EUR 12566 of the Commission of the European Communities, Directorate-General Telecommunications, Information Industries and Innovation, Scientific and Technical Communication Unit, Luxembourg

*Legal notice:* Neither the Commission of the European Communities nor any person acting on behalf of the Commission is responsible for the use which might be made of the following information

---

ISBN 3-540-52417-7 Springer-Verlag Berlin Heidelberg New York  
ISBN 0-387-52417-7 Springer-Verlag New York Berlin Heidelberg

Library of Congress Cataloging-in-Publication Data

European approaches to patient classification systems : methods and applications based on disease, severity, resource needs, and consequences / Reiner Leidl, Peter Potthoff, Detlef Schwefel, (eds.). p. cm.—(Health systems research) ISBN 0-387-52417-7 (U.S. : alk. paper)  
1. Hospital patients—Europe—Classification. I. Leidl, Reiner. II. Potthoff, Peter, 1947— . III. Schwefel, Detlef. IV. Series. [DNLM: 1. Chronic Disease—classification. 2. Diagnostic Related Groups. 3. Disability Evaluation. 4. Patients—classification. W15 E89] RA971.E97 1990 362.1—dc20 DNLM/DLC for Library of Congress 90-9696 CIP

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, re-use of illustrations, recitation, broadcasting, reproduction on microfilms or in other ways, and storage in data banks. Duplication of this publication or parts thereof is only permitted under the provisions of the German Copyright Law of September 9, 1965, in its current version, and a copyright fee must always be paid. Violations fall under the prosecution act of the German Copyright Law.

© ECSE-EEC-EAEC, Brussels-Luxembourg, 1990  
Printed in Germany

The use of general descriptive names, registered names, trademarks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

Product Liability: The publisher can give no guarantee for information about drug dosage and application thereof contained in this book. In every individual case the respective user must check its accuracy by consulting other pharmaceutical literature.

Printing and Bookbinding: Druckhaus Beltz, Hemsbach/Bergstraße  
2119/3145-543210 – Printed on acid-free paper

## Contents

Introduction <i>R. Leidl, P. Potthoff, and D. Schwefel</i> . . . . .	1
-------------------------------------------------------------------------	---

### Part I

#### **Assessment of Acute and Chronic Diseases: Severity and Resource Needs**

Concepts to Classify Patients by Disease Severity and Resource Needs <i>R. Leidl and J. M. Rodrigues</i> . . . . .	9
Patient Classification Systems: Overview of Experiments and Applications in Europe <i>M. M. Wiley</i> . . . . .	22
Roles of Case-Mix Measures in Managing Use of Resources <i>G. Bevan and C. Price</i> . . . . .	35
Using Diagnosis-Related Groups for Performance Evaluation of Hospital Care <i>F. Taroni</i> . . . . .	52
Severity Classification of Chronic Diseases for Rehabilitation Purposes <i>P. Potthoff, R. Diehl, and A. Schrapp</i> . . . . .	69

### Part II

#### **Assessment of the Consequences of Chronic Diseases: Impairments, Disabilities and Handicaps**

The International Classification of Impairments, Disabilities and Handicaps of the World Health Organization <i>P.H.N. Wood</i> . . . . .	83
-------------------------------------------------------------------------------------------------------------------------------------------------	----

Survey and Classification of Tools for the Assessment of Disease Consequences in the European Community Countries <i>A. Colvez and M. Labbé</i> . . . . .	102
Experience of the European Region of the World Health Organization in Measurement of Disease Impact <i>M. C. Thuriaux and D. Robinson</i> . . . . .	117
Report on the Workshop "Measurement of the Severity of Chronic Conditions", Munich, 28–30 April 1987 <i>P. Potthoff and D. Schwefel</i> . . . . .	130