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Autore	Lee Po-Chang
Titolo	Digital Health Care in Taiwan : Innovations of National Health Insurance // Po-Chang Lee, Joyce Tsung-Hsi Wang, Tzu-Yu Chen, Chia-Hui Peng, editors
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Nota di contenuto	<p>Intro -- Foreword -- Investing in the National Health Insurance Is Investing in Health -- Preface -- Thoughts on Reforming the National Health Insurance -- Acknowledgments -- Contents -- About the Contributors -- About the Editors -- Abbreviations -- Chapter 1: Introduction to the National Health Insurance of Taiwan -- The Core Concepts of Taiwan's National Health Insurance -- The Organisational Structure and History of the National Health Insurance Administration -- Characteristics of Taiwan's National Health Insurance -- The Finance of the National Health Insurance in Taiwan -- Medical Utilisation of the National Health Insurance -- The Payment System of the National Health Insurance -- The Healthcare Quality of the National Health Insurance -- The Information System of the National Health Insurance -- Achievement of the National Health Insurance -- The Critical Blueprints of Taiwan's National Health Insurance -- Chapter 2: Income Strategy -- Introduction -- Sources of National Health Insurance Income -- Premium Income -- Proportions of Various Sources of Income -- Enrolment Eligibility and Premium Calculations -- Classification of the Insured -- Calculation of Premiums -- Calculation of the Premium Rate -- The Annual Premium Rate Review Process -- The Financial Structure of National Health Insurance -- Establishment of an Actuarial Model to Calculate the Premium Rate -- Co-payments Under the National Health Insurance Act and How They Are Charged -- Co-payments for Outpatient Visits -- Co-payments for Emergency Care -- Co-payment Rates for Inpatient Care -- Fair BurdenChange Unnecessary Health Care [1] -- The Value of National Health Insurance Manifests When Major Illnesses Occur -- Provide the Best Drugs for Patients in Need -- Avoid the Vicious Circle -- Drug Co-payments May Increase Slightly -- Conclusion -- Reference.</p> <p>Chapter 3: Payment Structure -- Introduction -- Different Payment Methods in the National Health Insurance System -- A Simple Explanation of the Global Budget Payment System -- Introduction to Each Payment Method -- Implementation of Pay-for-Performance and Bundled Payment in Recent Years -- Global Budget Payment System -- Planning the Annual Global Budget -- Global Budget Distribution and Management -- Reducing the Provision of Unnecessary and Excessive Medical Services to Increase the Value of the Relative Value Unit -- Relative Value Units and Relative Value Unit Values are the Overall Causes and Outcomes of Each Other -- Adjusting Relative Value Units to Promote Balanced Development of Medical Specialties -- Guaranteeing the Relative Value Unit Value to Encourage Investment in the Healthcare Workforce -- Establishment and Revision of Fee Schedule -- Fee Schedule Revision Procedure -- Health Technology Assessment -- Items Not Been Covered by the NHI -- Self-Management Plan Under the Global Budget Payment System and Corresponding Measures of Insufficient Budgeting -- Self-Management Plan -- Subtracting Relative Value Units Directly -- Sharing the Relative Value Unit Gap -- Analysis and Reflections -- Chapter 4: Comprehensive Policies -- Introduction -- Implementation of the Separation of Medicine and Pharmacy from a National Health Insurance Perspective -- The Meaning of Separating Medicine and Pharmacy -- The Effectiveness of Separating Medicine and Pharmacy -- Ownership</p>

of Dispensing Rights from a Legal Perspective -- The Person in Charge of Medical Services in the National Health Insurance System -- The Strategy to Promote Separation of Medicine and Pharmacy-Discussion and Conclusions -- Patient-Centered Integrated Care Plans -- National Health Insurance Big Data Reflect the Ageing Population -- The Family Doctor Integrated Care Program.

Providing a New Model of Integration and Interdisciplinary Services -- Incorporating the Labor Power of Home Care into Integrated Care -- Promoting the Vertical Integration of Hospitals and Clinics -- Healthcare Digital Transformation Brings Win-Win-Win for Physicians, Patients, and National Health Insurance -- Connection to Long-Term Care After Hospital Discharge -- Covering the Discharge Planning and Follow-Up Management Fee Through National Health Insurance -- Implementation of Long-Term Care 2.0 -- Connection Between National Health Insurance Discharge Planning and Long-Term Care 2.0 -- Tiered Medical Care System -- Current Distribution of Hospital Levels -- Encouraging Big Hospitals to Treat Acute, Severe, and Difficult Diseases -- Small Hospitals Are the Leaders of Community Medical Care -- Consolidate Small Hospitals in Remote Areas to Continuously Protect the Health of Residents -- Co-Payment Adjustment -- Current Situation Analysis -- The Planning, Thinking, and Direction of Outpatient Co-Payments -- Conclusion -- References -- Chapter 5: Pursuing Health Equity -- Introduction -- Removing Barriers to Health Care to Protect the Disadvantaged -- Decoupling of the Payment of Premiums from the Right to Receive Medical Care -- The National Health Insurance Premium Deferment Paying Measures of the COVID-19 Epidemic -- Medical Services on Remote and Offshore Islands -- The Integrated Delivery System -- Improvement Plan for Medically Underserved Areas -- Upgrading Medical Services in Underserved Areas -- National Health Insurance Strives to Remove Barriers to Medical Treatment -- Prospects -- National Health Insurance Stands by Patients with Rare Diseases -- Rare Diseases Are Categorized as Catastrophic Illnesses to Waive Patient Co-Payments -- Strengthening Control Measures for Orphan Drugs -- My Health Bank-Promoting Self-Health Management.

My Health Bank Guards Our Health -- Rapid Cell Phone-Based Certification Allows Users to Manage Their Medical Information Easily -- Family Member Management Function Added to Safeguard Family Health -- Software Development Kit Connects Health Services Better -- Supporting Name-Based Mask Distribution System to Assist the Country in Epidemic Prevention -- The Significance of Including National Health Insurance in Elementary School Teaching Materials -- Chapter 6: Infrastructure of the Medical Information System -- Introduction -- Cornerstone of the National Health Insurance Database-Introduction to the NHI Medical Information System -- Highly Automated Process of Medical Claims -- Establishing National Health Insurance MediCloud System to Implement a Tiered Medical Care System -- The National Health Insurance MediCloud System -- Building Patient-Centered "NHI PharmaCloud System" -- Upgrading of the "NHI MediCloud System" -- Design of Active Reminders in the NHI MediCloud System -- Personal Privacy Protection and Information Security Management -- Cloud-Based Healthcare Technology Is a Future Trend -- Continuously Upgrading the NHI MediCloud System -- Applying the Technology to Provide Reminders Proactively -- Image Upload, Retrieval, and Sharing -- Importing ISO Certification to Protect Personal Information -- Integrating Information Across Organizations to Safeguard the Health of All Residents -- Continuous NHI MediCloud System Upgrade Enables Smart Medical Care -- The National Health

Insurance Information Security Management System and Data Protection Mechanism -- Continuous Improvement of the Information Security Management Mechanism -- Defense-in-Depth Mechanism Implementation and Internal and External Network Isolation Policies -- Regular Information Security Testing and Drills to Reduce the Potential Risks of Information Security.
Implement Database ID Entity Encryption Mechanism -- Conclusion --
Chapter 7: Innovative Applications of the Medical Information --
Introduction -- The Important Milestone: "2021-First Year of Telemedicine Being Covered" -- The COVID-19 Pandemic Accelerates the Inclusion of Telemedicine into the Benefits Package of the National Health Insurance -- Inclusion of Telemedicine in the Fee Schedule in 2021 -- Digital Technology Extends Medical Care -- The Major Stride of Health Insurance Information Network and Far-Reaching Medical Services Made Possible by 5G -- Brief Talk About the Health Insurance Information Network -- Enter the 5G Era -- Future Direction -- Virtual NHI Card Users in the 5G Era -- Planning for a New Generation NHI Card -- The Virtual NHI Card Pilot Program -- Continuous Function Progresses -- Using the National Health Insurance Information System for COVID-19 Prevention -- The Cross-Departmental Cooperation of the National Health Insurance Cloud System to Add a TOCC Reminder -- Establish a Control System for Masks and Distribute Protective Materials Fairly -- Enhance NHI Express APP and My Health Bank Functions for COVID-19 Prevention [1] -- The Name-Based Medical Mask Distribution System Is a Successful Model Established by Government and Private Sector Partnerships to Fight the COVID-19 Pandemic [2] -- Medical Masks Become Popular Anti-epidemic Materials -- Government and Private Sectors Cooperate to Create the Mask Map -- The Coverage Rate of Name-Based Medical Mask Distribution System Is Improving Continuously -- The Resilience of the NHIA Organization Is a Blessing For All -- References -- Chapter 8: Drug and Medical Device Reimbursement -- Introduction -- How Are Drug Prices Determined? -- Classification and Pricing of the Drugs Under the National Health Insurance -- Adjustment of Drug Price. How to Classify Medical Devices and Determine the Price?.

Sommario/riassunto

This open access book introduces the National Health Insurance (NHI) system of Taiwan with a particular emphasis on its application of digital technology to improve healthcare access and quality. The authors explicate how Taiwan integrates its strong Information and Communications Technology (ICT) industry with 5G to construct an information system that facilitates medical information exchange, collects data for planning and research, refines medical claims review procedures and even assists in fighting COVID-19. Taiwan's NHI, launched in 1995, is a single-payer system funded primarily through payroll-based premiums. It covers all citizens and foreign residents with the same comprehensive benefits without the long waiting times seen in other single-payer systems. Though premium rate adjustment and various reforms were carried out in 2010, the NHI finds itself at a crossroads over its financial stability. With the advancement of technologies and an aging population, it faces challenges of expanding coverage to newly developed treatments and diagnosis methods and applying the latest innovations to deliver telemedicine and more patient-centered services. The NHI, like the national health systems of other countries, also needs to address the privacy concerns of the personal health data it collects and the issues regarding opening this data for research or commercial use. In this book, the 12 chapters cover the history, characteristics, current status, innovations and future reform plans of the NHI in the digital era. Topics explored include:

Income Strategy Payment Structure Pursuing Health Equity Infrastructure of the Medical Information System Innovative Applications of the Medical Information Applications of Big Data and Artificial Intelligence Digital Health Care in Taiwan is essential reading for academic researchers and students in healthcare administration, health policy, health systems research, and health services delivery, as well as policymakers and public officials in relevant government departments. It also would appeal to academics, practitioners, and other professionals in public health, health sciences, social welfare, and health and biotechnology law.

3. Record Nr.	UNINA9910765493503321
Autore	Mercer Peter R.
Titolo	A Compact Capstone Course in Classical Calculus // by Peter R. Mercer
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Nota di contenuto	Chapter 1. Prelude: Vi`ete's Product -- Chapter. 2. Calculus Warm-up -- Chapter. 3. The Probability Integral & Gamma Function -- Chapter. 4. Wallis's Product -- Chapter. 5. Interlude: How Big is a Ball ? -- Chapter. 6. Convexity – Tangents -- Chapter. 7. Some Important Series -- Chapter. 8. Geometric Probability -- Chapter. 9. Convexity – Chords -- Chapter. 10. Interlude: Minkowski Distance -- Chapter. 11. The Basel Problem -- Chapter. 12. Interlude: Beyond Basel -- Chapter. 13.

Sommario/riassunto

This textbook offers undergraduates a self-contained introduction to advanced topics not covered in a standard calculus sequence. The author's enthusiastic and engaging style makes this material, which typically requires a substantial amount of study, accessible to students with minimal prerequisites. Readers will gain a broad knowledge of the area, with approaches based on those found in recent literature, as well as historical remarks that deepen the exposition. Specific topics covered include the binomial theorem, the harmonic series, Euler's constant, geometric probability, and much more. Over the fifteen chapters, readers will discover the elegance of calculus and the pivotal role it plays within mathematics. A Compact Capstone Course in Classical Calculus is ideal for exploring interesting topics in mathematics beyond the standard calculus sequence, particularly for undergraduates who may not be taking more advanced math courses. It would also serve as a useful supplement for a calculus course and a valuable resource for self-study. Readers are expected to have completed two one-semester college calculus courses.
