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Nota di contenuto	Importance of the Department of Biomedical Engineering in the Conversion of a High Specialty Hospital to a Covid-hospital -- Ventilatory Support Associated with Extubation Success in Preterm Infants Can Reduce the Hospitalisation Days -- Analysis of the Causes of Failures in a Dental Unit in Primary Health Care -- Linear Regression Based on Principal Components and Neural Networks to Determine Biomedical Equipment Maintenance Cost in the Peruvian Social Security Health System -- Study of Technical Productivity as a Tool for the Development of the Ips Universitaria Infrastructure Master Plan -- Epid-based Patient-specific Quality Assurance in Vmat Radiation Therapy Using Split Arcs -- A Clinical Decision Support System to Managing

Beds in ICU -- Development of Best Practices Virtual Resources to Assist in the Safe Use of Health Technologies in an Interdisciplinary Ecosystem -- Use of a Hapi Fhir Server and Development of a Multi-user Web Interface for Visualisation and Analysis of Data from Patients with Diabetes Mellitus -- Analysis of Failure Causes in the Mammography Machines -- An Overview of the Postgraduate Courses in Clinical Engineering Offered in Brazil -- Functionalities of Computerised Systems for the Management of Medical-hospital Equipment in Clinical Engineering Departments in Brazil -- Investigation of Probable Causes of Patient Damage in the Multifactorial Environment of Adverse Events: Analysis of Adverse Event Notifications for Pulmonary Ventilator -- Analysis of Maintenance Events in Medical Equipment in the Largest Trauma Hospital in Natal/RN -- Indexes for Health Technology Assessment. Two Case Studies: Computer Tomography Scan and Linear Accelerator.

Sommario/riassunto

This book reports on the latest research and developments in Biomedical Engineering, with a special emphasis on topics of interest and findings achieved in Latin America. This fourth volume of a 4-volume set focuses on health technology assessment, quality of healthcare technologies, and innovation in health technologies. It discusses advances in medical device monitoring, issues in patient safety, methods for medical error analysis and medical data management, and other related topics. Throughout the book, a special emphasis is given to low-cost technologies and to their development for and applications in clinical settings. Based on the IX Latin American Conference on Biomedical Engineering (CLAIB 2022) and the XXVIII Brazilian Congress on Biomedical Engineering (CBEB 2022), held jointly, and virtually on October 24-28, 2022, from Florianópolis, Brazil, this book provides researchers and professionals in the biomedical engineering field with extensive information on new technologies and current challenges for their clinical applications.
