



**Panel: Evidence of the integration between Research and Services
in the health sector**

Abstract: This panel addresses the challenge that public institutions face to fulfill their mission of promoting social and human development in the most vital area, which is health care. It brings together distinguished researchers, committed to the integration between teaching, research and services to the population. It deals, in particular, with the management of processes in complex procedures, requiring the entrepreneurial initiative for the elaboration of diagnoses, planning and intervention in the health system.

Panelists:

- Alberto Chebabo, M.D., Medical Director of the University Hospital of the Federal University of Rio de Janeiro
- Nelson Albuquerque de Souza e Silva, D.Sc., Professor Emeritus, Faculty of Medicine of the Federal University of Rio de Janeiro
- Silvana Marques Miranda Spyrides, Full Professor, Dentistry School of the Federal University of Rio de Janeiro
- Germana Bahr, M.D. M.Sc., National Institute of Traumatology and Orthopedics
- Eduardo Branco M.D., D.Sc., National Institute of Traumatology and Orthopedics
- Marcos Estellita Lins, Full Professor, Federal University of the State of Rio de Janeiro & COPPE, Federal University of Rio de Janeiro

Moderators: Maria Stella de Castro Lobo, M.D., D.Sc., Institute of Public Health, Federal University of Rio de Janeiro & Marcos Estellita Lins, Federal University of the State of Rio de Janeiro & COPPE, Federal University of Rio de Janeiro

Short Bio and Photo of Chair and Panelists:



Alberto Chebabo - Medical Director of the Clementino Fraga Filho University Hospital - UFRJ. Vice-President of the Brazilian Society of Infectious Diseases

Title: University Hospital Response to COVID-19 Pandemics: The Role of Innovation and Research.

Abstract: In response to the new Coronavirus pandemic (SARS-CoV-2), managers from the University Hospital Clementino Fraga Filho, Federal University of Rio de Janeiro (UFRJ), have decided to increase the number of beds to assist suspected COVID-19 cases. The lecture aims to describe innovative actions and research developed to guarantee hospital's response to the pandemic, with support from university, municipal authorities, federal government and private entrepreneurs' partners. Initiatives for personal protective equipment (PPE) manufacture and patients' monitoring by information technologies are good examples of these partnerships (university, government, private sector). For research actions, diagnosis and treatment of COVID-19, however, only government support was observed. There have been advances, but there are still many challenges to integrate and coordinate response from the three sectors to Public Health emergencies, as in COVID-19.



Nelson Albuquerque de Souza e Silva - Full Professor, Faculty of Medicine - UFRJ. Professor Emeritus - UFRJ. Master's and PhD in Cardiology (Mayo Graduate School of Medicine- Minnesota and UFRJ). Post-Doctorate in Clinical Epidemiology (McMaster University). Coordinator of the Doctoral Course of the Graduate Program in Medicine (Cardiology) of the Faculty of Medicine and Heart Institute Edson Saad.

Title: Social Injustice, Health, Pandemic and the University

Abstract: Social injustice is neglected as a health problem or cause of death. The data show unacceptable concentration of wealth, produced by all, in the hands of a few. Social inequalities have serious consequences for human health, whether in infectious diseases, as in the present pandemic, or in non-communicable diseases such as cardiovascular diseases or cancer. The poor die more from any disease and at a younger age than the rich. Education, health, science, housing, among others, are public goods. Economic development after the Second World War was made at the expense of this unacceptable concentration of income. It also caused a serious environmental imbalance and pollution, affecting health and society in an unfair way. It is up to the public university to propose solutions. "Medicine is politics on a large scale" (Virchow). Policies to reduce social injustice will lead to a solidary, democratic, inclusive and healthier society.



Silvana Marques Miranda Spyrides - Adjunct Professor, School of Dentistry - UFRJ; Department of Prosthesis and Dental Materials. Master and Doctorate in Metallurgical and Materials Engineering from the Federal University of Rio de Janeiro (UFRJ - COPPE).

Title: Dental Implants Extension Course: Innovating to Reconcile High Capital Investment with Tuition-Free for Students and Low Fee Service for Patients

Abstract: will present a partnership model University - Companies used in the creation of an extension course in dental implants at the School of Dentistry of UFRJ. Practical courses in dentistry schools need a high investment in equipment and materials. Furthermore, the university was undergoing budget cuts. Still, we managed to offer the course tuition-free and charging a low fee for the patients. The course achieved positive results in teaching, research, training of professionals, and provision of services to patients. She will also present the results of an analysis of the extension course management.



Germana Bahr - Pediatric Physician. Specialist in Change Management (Business School of Audencia/Nantes and Executive MBA - COPPEAD). Former Coordinator of Special Projects of the National Institute of Traumatology and Orthopedics (INTO) in Rio de Janeiro.

Title: Integrated Surgery Room Optimization and Simulation Applied to a Complex Health System – Into's Case Study

Abstract: INTO's case study describes the experience of the joint work carried out between a reference institute for highly complex surgical care in the areas of Orthopedics and Traumatology (INTO) and the Department of Production Engineering at COPPE / UFRJ. This partnership aims to address a problem of waiting lines for orthopedic surgeries, which results in the existence of more than 12,000 patients from the Brazilian public health system (SUS) waiting in lines, and developing strategies and actions to mitigate this problem. The presentation of this study aims to share the learnings and knowledge generated in these two years of collaborative work, highlighting the solutions proposed to improve the problem and the impact of implementing some of these solutions on the system as a whole, besides pointing out the main limitations found.



Eduardo Branco - Orthopedist of the Knee Surgery Center of the National Institute of Traumatology and Orthopedics (INTO). Master's degree in Medical Sciences - UFF; DSc in Morphological Sciences - UFRJ. Professor and advisor of the Professional Master's Degree in Applied Sciences to the Musculoskeletal System. Deputy Head of the Teaching and Research Division. Coordinator of the Research Ethics Committee.

Title: How can Research Improve Healthcare at a Brazilian Institute of public orthopedics

Abstract: Orthopedics has undergone several advances in recent decades, either through the development of new surgical techniques and surgical instruments, or by the

application of cells and biomaterials in the treatment of various diseases, among others. The National Institute of Traumatology and Orthopedics Jamil Jaddad (INTO) is the reference organ of the Ministry of Health in the surgical treatment of medium and high complexity and rehabilitation, being also responsible for stimulating the creation of public health policies in the orthopedic area. Thus, the development of INTO research aims not only at the development, but also at improving institutional protocols, aiming to offer the best treatment to patients in the Unified Health System (SUS), in addition to improving the results obtained and reducing costs. In this context, research in INTO has followed a translational character, seeking, in conjunction with the area of basic research, the development of answers to clinical questions. This presentation aims to demonstrate successful experiences of this basic-clinical integration.



Marcos Estellita Lins - Professor of the Department of Production Engineering - DEP/CCET/UNIRIO and the Production Engineering Program - PEP/COPPE/UFRJ. Leader of the CNPq Research Group on Multimethodology Systemic and Analytical. Doctorate - COPPE / UFRJ; Post-Doctorate - University of Bath, UK. Member of the INCT of Information and Decision Systems (INSID).<https://youtu.be/Sib8paVaZMc>

<https://youtu.be/Ty9LYiNqKg0>

<https://youtu.be/INByCwPXXGA>

Title: How can multimethodology integrate research and action by means of metacognitive distributed intelligence

Abstract: It is necessary to understand intelligence from a new paradoxical paradigm, if we want to establish robust foundations for human development. The integration between theoretical research and applied intervention plays an important role and faces a big challenge, regardless of whether this intervention occurs in public or private companies, in extension and services or in entrepreneurship. To understand and structure knowledge, it is necessary to circumscribe its borders. To innovate it is necessary to cross the border, inspect and imagine what could exist beyond, in the surrounding unknown. It is where science meets faith in possibilities. We need to reconcile the expansion of specialized and analytical knowledge with the systemic and generalist knowledge. The first allows for increasingly rigorous control over an increasingly narrow scope, while the second requires dealing with increasing uncertainties and less accuracy over an ever-broader scope. Multimethodology aims to assist in the management of this paradox.



Maria Stella de Castro Lobo - Epidemiologist physician and researcher from the Institute for Public Health Studies (IESC, Federal University of Rio de Janeiro), on Health Systems and Services. MSc in Epidemiology (Fiocruz). PhD in Operations Research- Production Engineering (COPPE- UFRJ).