

## CLINICAL RESEARCH DEPARTMENT

The Clinical Research Department (CRD) oversees all research projects at the Lung Center of the Philippines (LCP). It receives, evaluates and coordinates all research activities. It establishes policies and guidelines for the development, writing, presentation and approval of research proposals. Thru its Technical Review Board (TRB), it provides guidance and technical expertise on protocol development, including sample size calculation and statistical analysis plan. It spearheads institutional researches and coordinates with other national and international agencies for clinical trials, student undergraduate and graduate research, and collaborative research. It runs the TB Research Team at the LCP's National Center for Pulmonary Research (NCPR) as well as spearheads the Lung Cancer Registry to gather and collate the comprehensive local data on pulmonary tuberculosis and lung cancer, respectively. It maintains the Clinical Research Facility (CRF), an establishment that provides room, space and storage facilities for clinical trials and research.

The CRD publishes the Scientific Proceedings, the official journal of the LCP, to share local relevant educational material in the field of pulmonary medicine. The Scientific Proceedings Journal publishes original clinical investigations, epidemiological studies, case reports, review articles, evaluation of diagnostic and surgical techniques, and latest updates on management guidelines.

In 2019, the CRD started to align with the vision and strategic direction of the LCP on research. The current challenges involve providing resources to support priority programs and projects with other departments to undertake institutional research on advanced procedures to support new clinical pathways, programs and policies and contribute to impact healthy lungs and healthy environment.

The department likewise is aligned with the National Unified Health Research Agenda 2021–2025 on [1] responsive health system [2] research to enhance and extend healthy lives [3] holistic approaches to health and wellness [4] health resiliency [5] global competitiveness and innovation in health and [6] research in equity and health.

In order to achieve these proposed strategic directions, the CRD reviews its accomplishment using the perspectives of the Balanced Scorecard in [1] learning and growth [2] internal business processes [3] customer satisfaction and [4] financial perspective. From these perspectives, the CRD hopes to monitor the outcomes of all action plans and to evaluate the implementation of such plans.

### LISTING AND BRIEF DESCRIPTION OF AVAILABLE SERVICES

Registration of researches to be conducted at the LCP : processes all applications for Institutional Research, Clinical Trials, Student Undergraduate Research, Graduate Research and Collaborative Research.

Technical Review Board (TRB) : provides review of research protocols based on its technical merits.

Clinical Research Facility: provides rental for room space, investigational product storage and archiving of completed research.

### PERSONNEL

**RACQUEL C. IBAÑEZ, M.D.**  
Officer-in-Charge

**RACQUEL C. IBAÑEZ, MD**  
Medical Specialist IV

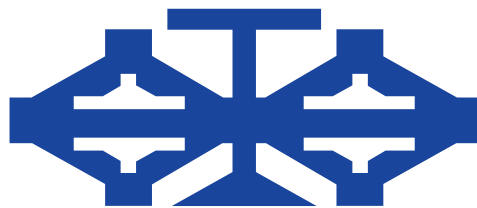
**MIRIAM Y. LALAS, MD**  
Medical Specialist II

**EMMA L. BAUTISTA, MBA**  
Administrative Officer II

**MONICA L. BARCELO**  
Administrative Assistant III

**KRIZIA CHLOE R. RIVERA, RN**  
Science Research Assistant

**MICHAELLA S. ROQUE**  
Science Research Assistant



LUNG CENTER OF THE PHILIPPINES

# Scientific Proceedings

Volume 13 No. 2 | December 2025 | ISSN 0117-9322 | SPECIAL ISSUE

OPEN  ACCESS



This publication is OPEN ACCESS, providing immediate access to its content on the principle that making research freely available to the public supports a global exchange of knowledge. The Scientific Proceedings of the Lung Center of the Philippines is licensed under a Creative Commons – Attribution-Non-Commercial 4.0 International License, which allows sharing, copying, and redistributing the material in any medium or format, under strict terms of giving appropriate credit to the authors and this journal, and use for non-commercial purposes.

## EDITORIAL TEAM

**JUBERT P. BENEDICTO, MD**  
Editor-in-Chief

**RACQUEL C. IBAÑEZ, MD**  
**MIRIAM Y. LALAS, MD**  
**ROGELIO N. VELASCO, JR., MD**  
**PORTIA MARIA C. TANYAG, MD**  
**JULIAN PATRICK L. BULACLAC, MD**  
Associate Editors

**AMADO O. TANDOC, III, MD**  
Editorial Consultant

**KARISSA ARIELLE F. GENUINO, MD**  
Scientific Copyeditor

**EMMA L. BAUTISTA, MBA**  
**MONICA L. BARCELO**  
**KAREN MAE M. ALMAREZ, RPh**  
Editorial Assistants

**VINCENT M. BALANAG, JR., MD**  
**SULLIAN S. NAVAL, MD**  
**NORBERTO A. FRANCISCO, MD**  
Editorial Board

### Contact Information:

Clinical Research Department,  
Lung Center of the Philippines,  
Quezon Avenue Extension, Diliman,  
Quezon City 1100  
LCP Trunkline: (632) 8924-6101  
LCP GSM Gateway SIM: 0917-837-9602  
0998-964-5748

Extension Numbers: 4051 / 4052  
E-mail: [scientificproceedings@lcp.gov.ph](mailto:scientificproceedings@lcp.gov.ph)  
Website: <https://lcp.gov.ph>

## PEER REVIEWERS

General Pulmonology,  
Clinical Epidemiology  
**RACQUEL C. IBAÑEZ, MD**  
**MIRIAM Y. LALAS, MD**

Pulmonary and Critical Care Medicine  
**PORTIA MARIA C. TANYAG, MD**  
**MARY CLAIRE R. ORDEN, MD**

Interventional Pulmonology  
**JOVEN ROQUE V. GONONG, MD**  
**PAUL RILHELM M. EVANGELISTA, MD**  
**GENEVIE R. OMBAO, MD**  
**KRIZELLE L. ACIBAL, MD**

Pulmonary Rehabilitation  
**ONAIZAH KATRINA G. MONERA, MD**  
**GLYNNA ONG-CABRERA, MD**

Pulmonary and Sleep Medicine  
**MA. CECILIA I. JOCSON, MD**  
**MARK EDISON Q. DE VERA, MD**

Pulmonary Medicine and  
Occupational Health  
**ELEANOR DG. DELA PEÑA, MD**

Thoracic Surgery  
**FERNANDO A. MELENDRES, JR., MD**  
**ANTHONY V. MANLULU, MD**  
**KARLOS NOEL R. ALETA, MD**

Thoracic Anesthesia  
**MA. STEPHANIE G. BALAOING, MD**  
**LIZBETH G. JACABAN, MD**

Thoracic Radiology  
**JOHN MICHAEL C. OPEÑA, MD**

Thoracic Pathology  
**REX MICHAEL C. SANTIAGO, MD**

Clinical Pathology  
**GERALD V. TEJADA, MD**

Thoracic Oncology, Clinical Epidemiology  
**ROGELIO N. VELASCO, JR., MD**

Pediatric Pulmonology  
**JEAN MARIE E. JAMERO, MD**

Nursing Services  
**GRACIELLE RUTH M. ADAJAR, MAN, RN**  
**ADRIAN N. PALMA, MSN, RN**  
**JENNIFER RHAEL J. LIM, DNM, RN**

The **Scientific Proceedings**, the official journal of the Lung Center of the Philippines, is an open-access, English language, medical science journal, published biannually by the Lung Center of the Philippines. The journal intends to share local relevant scientific findings in the field of respiratory medicine through publication of high quality original clinical investigations, epidemiological studies, case reports, review articles, evaluations of diagnostic and surgical techniques, and the latest updates on management guidelines. The journal's target audience are clinicians, surgeons, specialists, laboratorians, scientists, and researchers working on pulmonary medicine. The Scientific Proceedings does not charge any subscription, review, or manuscript processing fees.

All statements and opinions expressed in the articles and communications herein are those of the author/s and not necessarily those of the editor/s or the publisher. The editors of **Scientific Proceedings** and the Lung Center of the Philippines assume no responsibility for any injury and/or damage to persons or property as a matter of product liability or negligence, or which otherwise arise from use or operation of any methods, products, instructions, or ideas cited or discussed in any article published. Although all advertising materials are expected to conform to ethical standards, the appearance of advertising in the journal does not constitute a guarantee or endorsement by the editors and/or the publisher of the quality or value of such product, or the claims made for it by its manufacturer.

The Scientific Proceedings is guided by the International Committee of Medical Journal Editors (ICMJE) "Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Works in Medical Journals". (<https://icmje.org>)

The Scientific Proceedings refers to the Committee on Publication Ethics (COPE) Guidelines and Flowcharts in addressing various aspects of publications ethics issues. (<https://publicationethics.org>)

The Scientific Proceedings is a proud member of the Philippine Association of Medical Journal Editors with the aim of raising the quality of medical journal publishing in the country. (<https://pamje.org>)





Editorial	6
Editorial Policies	7
Foreword	11
Message	12
Original Article	13
<b>MONOGRAPH ON LUNG CANCER</b>	
<b>LUNG CANCER REGISTRY DATA OF 2009 TO 2017</b>	
<i>Vincent M. Balanag, Jr., MD, MSc, FPCP, FPCCP*, Sullian Sy-Naval, MD, FPCP, FPCCP**</i>	
<i>Norberto A. Francisco, MD, FPCP, FPCCP***</i>	
<i>*Former Executive Director IV</i>	
<i>**Former Deputy Executive Director IV for Medical Services,</i>	
<i>***Former Deputy Executive Director III,</i>	
<i>OIC for Education, Training and Research Services,</i>	
<i>Department Manager III, Clinical Research Department, Lung Center of the Philippines</i>	
Guide for Authors	36
Submission Checklist	40
Author Form	41
ICMJE Form for Disclosure of Potential Conflicts of Interest	42
Patient Consent Form	44

