

PHILIPPINE JOURNAL OF HEALTH RESEARCH AND DEVELOPMENT

RESEARCH ARTICLE

PREVALENCE OF DEPRESSIVE AND ANXIETY SYMPTOMS AMONG OBSTETRICS AND GYNECOLOGY RESIDENTS-IN-TRAINING DURING THE COVID-19 PANDEMIC

PREVALENCE AND SEVERITY OF COMPUTED TOMOGRAPHY ASSESSED PNEUMONIA AMONG FULLY VACCINATED AND UNVACCINATED ADULT FILIPINO IN-PATIENTS WITH COVID-19 INFECTION: A RETROSPECTIVE STUDY

A SINGLE CENTER RETROSPECTIVE OBSERVATIONAL STUDY ON THE ACCURACY OF THE MULBSTA SCORE IN PREDICTING MORTALITY AMONG COVID-19 CONFIRMED MODERATE TO CRITICAL PNEUMONIA CASES

BROAD PANEL RESPIRATORY MULTIPLEX PCR (PNEUMONIA PANEL) IN IMPROVING OVERALL SURVIVAL, LENGTH OF HOSPITAL STAY, AND ANTIBIOTIC FREE DAYS AMONG PATIENTS WITH COMMUNITY ACQUIRED PNEUMONIA - A RANDOMIZED CONTROLLED TRIAL

META ANALYSES

EFFECTIVENESS OF RECTAL DICLOFENAC IN PREVENTING POST-ERCP PANCREATITIS (PEP): A META-ANALYSIS

A SYSTEMATIC REVIEW AND META-ANALYSIS ON THE EFFECTIVENESS OF INTRAVENOUS IMMUNOGLOBULIN PLUS CORTICOSTEROIDS VS IMMUNOGLOBULIN ALONE AS AN INITIAL THERAPY OF COVID-19 ASSOCIATED MULTISYSTEM INFLAMMATORY SYNDROME IN CHILDREN (MIS-C)

CASE REPORTS

RECTAL MALIGNANT MELANOMA: A SECOND PRIMARY MALIGNANCY IN A FILIPINO ADULT MALE - A CASE REPORT

THIRTEEN-AND-A-HALF SYNDROME IN 14 YEAR OLD FEMALE

MOYAMOYA ANGIOPATHY IN SOUTHEAST ASIANS: SYSTEMATIC REVIEW OF LITERATURE WITH AN ILLUSTRATIVE CASE

LOW-DOSE OSIMERTINIB IN AN ELDERLY WITH EGFR-MUTANT METASTATIC LUNG ADENOCARCINOMA: A CASE REPORT AND LITERATURE REVIEW

THE PHILIPPINE JOURNAL OF HEALTH RESEARCH AND DEVELOPMENT (PJHRD) (FORMERLY THE UP MANILA JOURNAL) IS A PEER-REVIEWED JOURNAL THAT AIMS TO PUBLISH RESEARCH WITH A BROAD SCOPE COVERING ALL ASPECTS OF ENVIRONMENTAL AND HUMAN HEALTH. THIS QUARTERLY JOURNAL AIMS TO REACH BROAD READERSHIP AND PROVIDE EASY ACCESS TO HIGH-QUALITY ARTICLES FROM MULTIPLE DISCIPLINES THAT INCLUDE, BUT ARE NOT LIMITED TO, THE ALLIED HEALTH SCIENCES (I.E., REHABILITATION... AND HEALTH CARE), PHARMACY AND NATURAL PRODUCTS, FOOD SCIENCE AND NUTRITION, HEALTH INFORMATICS, AS WELL AS PUBLIC AND ENVIRONMENTAL HEALTH, ECOTOXICOLOGY, HEALTH SOCIAL SCIENCES, HEALTH PROFESSIONS EDUCATION, AND HEALTH POLICY. SYSTEMATIC REVIEWS, ORIGINAL RESEARCH, AND CASE REPORTS WILL BE ACCEPTED. SPECIAL FOCUS WILL BE GIVEN TO RESEARCH THAT REFLECTS COLLABORATION AMONG DIFFERENT DISCIPLINES AND THAT ADDRESSES AREAS IN THE NATIONAL UNIFIED HEALTH RESEARCH AGENDA (NUHRA) 2017-2022. THE EDITORIAL BOARD WILL ENDEAVOR TO CONSISTENTLY PUBLISH WORK THAT IS OF COGENT METHODOLOGY AND THAT MAKES AN IMPORTANT CONTRIBUTION TO SCIENTIFIC KNOWLEDGE.

PLEASE ADDRESS ALL COMMUNICATION TO:

EDITOR-IN-CHIEF, PJHRD

C/O INFORMATION, PUBLICATION, AND PUBLIC AFFAIRS
OFFICE (IPPAO)

8/F PHILIPPINE GENERAL HOSPITAL COMPLEX, TAFT AVE., MANILA,
1000, PHILIPPINES

TEL. NO.: (+632) 88141218

EMAIL: PJHRD.UPM@UP.EDU.PH

WEBSITE: PJHRD.UPM.EDU.PH

EDITOR-IN-CHIEF

ROLAND DOMINIC G. JAMORA, MD, PHD
DEPARTMENT OF NEUROSCIENCES
UNIVERSITY OF THE PHILIPPINES MANILA

EDITORIAL ASSISTANT

ERLYN MAY U. PAREJA
INFORMATION, PUBLICATION, AND PUBLIC AFFAIRS OFFICE
UNIVERSITY OF THE PHILIPPINES MANILA

EDITORIAL BOARD

JUNIE B. BILLONES, PHD
COLLEGE OF ARTS AND SCIENCES
UNIVERSITY OF THE PHILIPPINES MANILA

FRANCIS R. CAPULE, RPH, MS, PHD
COLLEGE OF PHARMACY
UNIVERSITY OF THE PHILIPPINES MANILA

ALOYSIUS DOMINGO, MD, PHD
MASSACHUSETTS GENERAL HOSPITAL AND
HARVARD MEDICAL SCHOOL, BOSTON, MA, USA

MA. LUISA ENRIQUEZ, PHD
DEPARTMENT OF BIOLOGY
DE LA SALLE UNIVERSITY

ADRIAN I. ESPIRITU, MD
DEPARTMENT OF MEDICINE (NEUROLOGY) AND DEPARTMENT OF PSYCHIATRY
UNIVERSITY OF TORONTO

EMMANUEL A. ESTRELLA, MD, MSc, PHD
DEPARTMENT OF ORTHOPEDICS
UNIVERSITY OF THE PHILIPPINES MANILA

IAN KENDRICH C. FONTANILLA, PHD
UNIVERSITY OF THE PHILIPPINES DILIMAN

YOHANNA KUSUMA, PHD
UNIVERSITAS INDONESIA, JAWA BARAT, INDONESIA

MARY ANN J. LADIA, PHD
NATIONAL INSTITUTES OF HEALTH
UNIVERSITY OF THE PHILIPPINES MANILA

ROLANDO T. LAZARO PT, PHD
DEPARTMENT OF PHYSICAL THERAPY
CALIFORNIA STATE UNIVERSITY SACRAMENTO

BEN ANTHONY A. LOPEZ, MD, PHD
DEPARTMENT OF NEUROSCIENCES
UNIVERSITY OF THE PHILIPPINES MANILA

ALLAN PATRICK G. MACABEO, DR. RER. NAT
RESEARCH CENTER FOR THE NATURAL AND APPLIED SCIENCES
UNIVERSITY OF SANTO TOMAS

BERNADETTE CHUA-MACROHON, MD, MHPED, MCLINEPI (BIOSTAT)
DEPARTMENT OF PEDIATRICS, SCHOOL OF MEDICINE
ATENEO DE ZAMBOANGA

CESAR A. PEREZ JR., MD
SENTRO OFTALMOLOGICO JOSÉ RIZAL
UNIVERSITY OF THE PHILIPPINES MANILA

PAUL FERDINAND M. REGANIT, MD, MPH
COLLEGE OF MEDICINE
BICOL UNIVERSITY

CHRISTOPHER JAY T. ROBIDILLO, PHD
COLLEGE OF ARTS AND SCIENCES
UNIVERSITY OF THE PHILIPPINES MANILA

ERLYN A. SANA, LPT, MAT, PHD
NATIONAL TEACHER TRAINING CENTER FOR THE HEALTH PROFESSIONS
UNIVERSITY OF THE PHILIPPINES MANILA

EMILIO Q. VILLANUEVA III MD, MSPH (BIOSTAT)
DEPARTMENT OF PATHOLOGY
UNIVERSITY OF THE PHILIPPINES MANILA

ADVISERS

MICHAEL L. TEE, MD, MHPED, MBA
CHANCELLOR
UNIVERSITY OF THE PHILIPPINES MANILA

LESLIE MICHELLE M. DALMACIO, PHD
VICE CHANCELLOR FOR RESEARCH
UNIVERSITY OF THE PHILIPPINES MANILA

CARL ABELARDO T. ANTONIO, MD, MPH
DIRECTOR OF NATIONAL GRADUATE OFFICE FOR THE HEALTH SCIENCES
UNIVERSITY OF THE PHILIPPINES MANILA

TABLE OF CONTENTS

EDITORIAL MESSAGE

Raul C. Pagdanganan

President & CEO, Cardinal Santos Medical Center

Antonio S. Say, MD, MHPed

Chief Medical Officer, Cardinal Santos Medical Center

Lourdes Ella G. Santos, MD

CSMC Special Issue Guest Editor

Preventive Cardiologist, Hypertension Specialist, and Clinical Lipidologist

Cardinal Santos Medical Center

RESEARCH ARTICLE

- | | |
|--|----|
| Prevalence of depressive and anxiety symptoms among Obstetrics and Gynecology residents-in-training during the COVID-19 pandemic
<i>Mary Angelique A. De Guzman* and Nephtali M. Gorgonio</i> | 1 |
| Prevalence and severity of Computed Tomography assessed pneumonia among fully vaccinated and unvaccinated adult Filipino in-patients with COVID-19 infection: A retrospective study
<i>Jose Paolo D. Sibulo*</i> | 6 |
| A single center retrospective observational study on the accuracy of the MuLBSTA score in predicting mortality among COVID-19 confirmed moderate to critical pneumonia cases
<i>Elijah Nonnatus A. Adamos*, Maria Celeste Janyssa F. Poblete, Myrna T. Mendoza, and Guinevere N. Dy-Agra</i> | 11 |
| Broad Panel Respiratory Multiplex PCR (Pneumonia Panel) in improving overall survival, length of hospital stay, and antibiotic free days among patients with community acquired pneumonia - A randomized controlled trial
<i>Michael Anderson G. Lam* and Guinevere N. Dy-Agra</i> | 15 |

META ANALYSES

- | | |
|---|----|
| Effectiveness of Rectal Diclofenac in preventing Post-ERCP Pancreatitis (PEP): A meta-analysis
<i>Nicole Allyson A. Chua*, Sergie Paul Christoffer C. Fernandez, and Ismael A. Lapus, Jr.</i> | 20 |
| A systematic review and meta-analysis on the effectiveness of intravenous immunoglobulin plus corticosteroids vs immunoglobulin alone as an initial therapy of COVID-19 associated Multisystem Inflammatory Syndrome in children (MIS-C)
<i>Gianina Louise K. Carasig*, Marivic A. Leon-Bala, Katrina M. Piczon, Ann Marie C. Tan-Ting, and Veronica Samantha M. Valencia</i> | 28 |

CASE REPORTS

- | | |
|--|----|
| Rectal malignant melanoma: A second primary malignancy in a Filipino adult male - A case report
<i>Katrina Nicole R. Mejia* and Ismael A. Lapus Jr.</i> | 36 |
| Thirteen-and-a-Half syndrome in 14 year old female
<i>Jose Martin L. Velasco* and Karen B. Reyes</i> | 39 |
| Moyamoya Angiopathy in Southeast Asians: Systematic review of literature with an illustrative case
<i>Alfeo Julius R. Sy*, Lindt Camille O. Alba, and Marc Conrad C. Molina</i> | 42 |
| Low-dose Osimertinib in an elderly with EGFR-mutant metastatic lung Adenocarcinoma: A case report and literature review
<i>Kemuel Dave N. Yahot*, Guinevere N. Dy-Agra, and Ma. Luisa T. Abesamis-Tiambeng</i> | 46 |

50 YEARS OF SUCCESS AND ADVANCEMENT

Greetings!

As Cardinal Santos Medical Center celebrates its 50th founding anniversary, I am immensely proud and honored to present this special publication of the *Philippine Journal of Health Research and Development*. This milestone is truly a testament of our dedication in promoting research in our institution. Our steadfast commitment to champion physician – driven research papers has set us apart in the healthcare industry.

The collection of research papers and articles featured in this special edition exemplifies the expertise, innovative minds and ingenuity of our doctors which underscores the profound impact that Cardinal Santos Medical Center have in the evolving health care landscape. This special issue showcases the impactful insights and research outputs of our esteemed contributors. I am confident that these contributions will serve as a nidus of inspiration for the future generations of healthcare professionals to continue pushing the boundaries of medical research to enhance patient care.

I extend my heartfelt gratitude to the Philippine Journal of Health Research and Development team for this collaboration and to the contributors of this publication, the medical staff of Cardinal Santos Medical Center for making this feat possible.

Together, let us continue to strive for health care excellence in the field of research in service of our patients.

Congratulations and here's to the next fifty years of success and advancement in medical research for Cardinal Santos Medical Center!

Raul C. Pagdanganan
President & CEO
Cardinal Santos Medical Center

50 YEARS OF CARE AND EXCELLENCE

This issue of the *Philippine Journal of Health Research and Development* is in celebration of the 50th anniversary of the Cardinal Santos Medical Center (CSMC). Established as the Saint Paul's Hospital in Manila by the Roman Archdiocese of Manila (RCAM) under Archbishop Jeremiah James Hearty in 1907, it was destroyed by heavy artillery during World War II. Its restoration was part of the US-Philippines War Damage Commission financial compensation, but post-war inflation diminished the resources for reconstruction. Then Archbishop Rufino Cardinal Santos provided the much-needed financial aid to rebuild the hospital. From its original location in Intramuros, the St. Paul Hospital was transferred to the hills of San Juan, off Ortigas Avenue, now within the Greenhills West Subdivision.

On August 15, 1974, the hospital was renamed the Cardinal Santos Memorial Hospital in honor of the first Filipino Cardinal who was instrumental in its restoration. The hospital was renamed the Cardinal Santos Medical Center on August 1, 1988, and has remained under the ownership of the RCAM. Hospital operations are currently being managed by the Colinas Verdes Hospital Managers Corporation (CVHMC) who took over on August 15, 2008, under the leadership of Mr. Manuel “Manny” V. Pangilinan.

This issue contains various research that have been produced by the CSMC. Research is one of the focus areas of the center and it looks forward to the increase in studies by its doctors, especially the consultants. The key programs in Cardiology, Oncology, Neurosurgery, Gastroenterology and Rehabilitation Medicine have made Cardinal Santos Medical Center an established name in healthcare in the country. As the future unfolds, the center is on its way into improving the integration of AI in its operations and enhancing other areas of expertise.

Cheers to the next fifty years of Care and Excellence under the Cardinal Santos Medical Center!

Antonio S. Say, MD, MHPEd
Chief Medical Officer
Cardinal Santos Medical Center

50 YEARS RISING FROM THE PANDEMIC

We live in extraordinary times. We have come out of a pandemic that affected lives all over the world and impacted on research activities and clinical trials. Throughout it the medical profession carried on, a stalwart beacon of light. The wealth of information we now have from an outbreak that may well have continued effects will need to be reported. We continue with scientific adaptations and collaborative efforts to produce research that will guide academic training.

We are honored to be part of this publication in the *Philippine Journal of Health Research and Development* featuring the works of Cardinal Santos Medical Center (CSMC) residents and fellows in training. The articles presented here encompass topics across different subspecialties. Three original research studies focus on the impact of COVID in our institution, one evaluating the value of a diagnostic tool in patients with pneumonia. Two meta-analyses depict the impact of therapeutic options in the prevention of post-procedural complications and treatment in children with COVID-19. Interesting clinical cases encountered comprise the four case reports in this issue.

We look forward to continued output with CSMC faculty, fellows, residents and medical students whose expertise, dedication and commitment allow us to conduct clinical research for evidence-based clinical practice.


Thank you for the opportunity.

Lourdes Ella G. Santos, MD

CSMC Special Issue Guest Editor

Preventive Cardiologist, Hypertension Specialist, and Clinical Lipidologist

Cardinal Santos Medical Center

 (+632) 88141248

 PJHRD.UPM@UP.EDU.PH

 PJHRD.UPM.EDU.PH



CARDINAL SANTOS
MEDICAL CENTER



YEARS STRONG

**A HERITAGE OF CARE
AND EXCELLENCE**

FORMERLY THE UP MANILA JOURNAL