

# PHILIPPINE JOURNAL OF OTOLARYNGOLOGY HEAD AND NECK SURGERY

PHILIPPINE JOURNAL OF OTOLARYNGOLOGY-HEAD AND NECK SURGERY

VOL. 37 No. 2 JULY – DECEMBER 2022

## Editor

José Florencio F. Lapeña, Jr., MA, MD  
Manila, PHILIPPINES

## Associate Editors

Christopher Malorre E. Calaquian, MD  
Muntinlupa City, PHILIPPINES

Ryner Jose D. Carrillo, MD, MSC  
Taguig City, PHILIPPINES

Samantha R. Soriano-Castañeda, MD  
Pasig City, PHILIPPINES

Antonio H. Chua, MD  
Quezon City, PHILIPPINES

Rodante A. Roldan, MD  
Quezon City, PHILIPPINES

Marifee U. Reyes, MD  
Naga City, Camarines Sur, PHILIPPINES

Filipina T. Cevallos-Schnabel, MD, DNP  
Nashville, Tennessee, USA

## Managing Editor

Erasmio Gonzalo dV. Llanes, MD  
Pasig City, PHILIPPINES

## Editorial Advisory Board

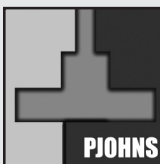
Jose M. Acuin, MD, MSC  
Las Piñas City, PHILIPPINES

Robert G. Berkowitz, MBBS, MD  
Melbourne, AUSTRALIA

Charlotte M. Chiong, MD, PhD  
Malolos, Bulacan, PHILIPPINES

Jose Angelito U. Hardillo, MD, PhD  
Rotterdam, The NETHERLANDS

KJ Lee, MD  
New Haven, Connecticut, USA



The Philippine Journal of Otolaryngology Head and Neck Surgery (PJOHNS), official refereed journal of the Philippine Society of Otolaryngology Head and Neck Surgery, is a free and open-access journal that follows the "Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals" of the International Committee of Medical Journal Editors ([www.icmje.org](http://www.icmje.org)), and is listed as such: <http://www.icmje.org/journals-following-the-icmje-recommendations/#P>

Its academic editors are committed to fair and professional dealing in all aspects of our publishing operations. Their affiliations are listed on our website, and they additionally disclose other potential conflicts of interest when needed. Our role is to publish original work of value to the intellectual community in the best possible form and to the highest possible standards. We expect similar standards from our reviewers and authors. Honesty, originality and fair dealing on the part of authors, and fairness, objectivity and confidentiality on the part of editors and reviewers are among the critical values that enable us to achieve our aim. The PJOHNS endorses and behaves in accordance with the codes of conduct and international standards established by the Committee on Publication Ethics (COPE), Directory of Open Access Journals (DOAJ), Open Access Scholarly Publishers Association (OASPA), and World Association of Medical Editors (WAME) in their joint statement on the Principles of Transparency & Best Practice in Scholarly Publishing, available at <https://doi.org/10.24318/cope.2019.1.12>.

It aims to provide local and overseas otolaryngologists, other surgeons and physicians, health and allied medical professionals, academicians and scientists from other disciplines, with a scholarly forum for the exchange of ideas and information in the discipline of otolaryngology - head and neck medicine and surgery and related fields that are especially relevant to health professionals in the Philippine and Asia Pacific context. It publishes peer-reviewed original articles (including clinical trials, laboratory investigations, effectiveness of diagnostic or therapeutic techniques); evidence-based medicine (including clinical practice guidelines, systematic reviews and meta-analyses, evaluations of current practices and commentaries); case reports with discussions; surgical and instrumentation innovations and illustrations of new techniques; review articles; imaging and histopathology cases; lectures and symposia; brief reports and abstracts; correspondence and guest editorials and studies relating to behavioral, epidemiological, educational or controversial issues in otolaryngology - head and neck medicine and surgery and related fields. We are particularly committed to publishing research and innovations for health that are relevant in low and middle-income countries.

Published semi-annually, Number One of Volume One is dated January – December 1981. It is also published electronically, available from <http://pjohns.pso-hns.org/index.php/pjohns> Journal International Standard Serial Number: p-ISSN 1908 4889; e-ISSN 2094 1501 Vol. 37 No. 2, July - December 2022. Copyright 2021. All rights reserved.

## Editorial Contact Information:

Postal Address: No. 27 Manga Road, Barangay Kaunlaran, Quezon City 1111, Philippines  
Phone : (632) 8633 8344; (632) 7758 6973; Email: [pjohns@pso-hns.org](mailto:pjohns@pso-hns.org)  
Contact Person: Ms. April Christine E. Dagame, Editorial Assistant



Published by: Philippine Society of Otolaryngology Head and Neck Surgery, Inc.

## Publisher Contact Information:

Postal Address: No. 27 Manga Road, Barangay Kaunlaran, Quezon City 1111, Philippines  
Phone : (632) 8633 8344; (632) 7758 6973 Email: [psohns@pso-hns.org](mailto:psohns@pso-hns.org); [melissa@pso-hns.org](mailto:melissa@pso-hns.org)  
Contact Person: Ms. Melissa B. Martinez, Administrative Assistant



Printing, Design and Editorial Consultants: AV LICH Graphics and Prints, Inc.

## Printer Contact Information:

Postal Address: B8 L1 Brentwood Parkhomes, Sumulong Highway, Brgy. Mambugan, Antipolo City, 1870, Philippines  
Cellphone (+63) 917 300 8099; (+63) 917 837 9953 Telefax (632) 86464911; Email: [virgie.lichauco@avlich.com](mailto:virgie.lichauco@avlich.com); [atlichauco@yahoo.com](mailto:atlichauco@yahoo.com)  
Contact Person: Mr. Arnel T. Lichauco, President

The *Philipp J Otolaryngol Head Neck Surg* is indexed on the Health Research and Development Network (HERDIN Plus) available at <https://www.herdin.ph> supported by the Philippine Council for Health Research Development, Department of Science and Technology (PCHR-DOST); the ASEAN Citation Index available at <https://asean-cites.org>; the Directory of Open Access Journals (DOAJ) available at <https://doaj.org>; and the Western Pacific Region Index Medicus (WPRIM) of the Global Index Medicus of the World Health Organization (WHO) available at <https://www.globalindexmedicus.net/biblioteca/wprim/>.



## NOTICE TO READERS AND CONTRIBUTORS

### SUBMISSION

Manuscripts should be submitted via the editorial online submission and peer-review system available at <https://pjohns.pso-hns.org/index.php/pjohns/about/submissions>. Authors must first register to use the site. There are NO article processing charges or fees for submission, editing, review, and publication.

Authors must submit, along with the manuscript, scanned duly accomplished authorship statements, disclosure statements and copyright transfer forms explained under the "Instructions to Authors" section of the journal, available in print with each issue, or online from <https://journal.pso-hns.org/author-forms/>. No manuscript will be reviewed until the signed authorship and disclosure statements and copyright transfer forms are received.

Manuscripts are reviewed by editors and other experts in the field and may be proofread, content- and form- edited and returned for revision. Manuscripts are subjected to a double anonymized external peer-review process, guided by the Committee on Publication Ethics (COPE) ethical guidelines for peer reviewers, available from: <https://publicationethics.org/node/19886>. Reviewers must maintain confidentiality about the manuscripts and should not use data from such manuscripts or share such data with colleagues before they are published. Reviewers must not reproduce the manuscript for any purpose, or use the peer review process as a means to further their own research aims, by requiring authors to respond to questions that are of interest to the reviewer but are not questions the study was designed to

answer. Reviewers should refrain from suggesting their own published work be referenced.

### SUBSCRIPTION

The Journal is published semiannually in paid print and free open access electronic versions; subscribers will receive two printed issues per year plus supplements on special topics. PJOHNS Fellows in good standing are automatically enrolled subscribers with no additional fees except for the supplements. Non-fellows may subscribe to print copies at the following rates, which include delivery fees. Institutional (multiple-reader rates) apply to libraries, schools, hospitals, and government, commercial and private institutions and organizations. Individual subscriptions must be in the name of, billed to, and paid by individuals. Forms are available in each issue or from <https://journal.pso-hns.org/order-form/>

#### Individual

Local	Php	1,200.00
Overseas	USD	40.00

#### Institutional

Local	Php	1,500.00
Overseas	USD	50.00

Particular print Issues and Supplements may be purchased at the following rates per copy subject to availability:

#### Individual

Local	Php	600.00
Overseas	USD	20.00

### Institutional

Local	PhP	750.00
Overseas	USD	25.00

### DISCLAIMER

Statements and opinions expressed in the articles, contributions and communications herein are those of the author(s) and not necessarily those of the Editor(s) or the Publisher (Philippine Society of Otolaryngology Head and Neck Surgery). The Editors and the PJOHNS 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, contribution or communication in this Journal.

Although all advertising materials are expected to conform to medical ethical standards, the appearance of advertising in the PJOHNS does not constitute a guarantee or endorsement by the PJOHNS or the PJOHNS of the quality or value of such product or the claims made for it by its manufacturer.

### REPRINTS/ADVERTISING

Reprint requests (unless available from corresponding authors) and advertising inquiries may be addressed to the Managing Editor, Philippine Journal of Otolaryngology Head and Neck Surgery, No. 27 Manga Road, Barangay Kaunlaran, Quezon City 1111, Philippines