

Journal of Hand and Microsurgery

Official Publication of the Society of Indian Hand and Microsurgeons

Editor-in-Chief

J. Terrence Jose Jerome

Department of Orthopedics,
Hand and Reconstructive Microsurgery,
Olympia Hospital and Research Centre,
Trichy, India

Associate Editors

Mohamed Ellabban

Department of Plastic and
Reconstructive Surgery,
Faculty of Medicine,
Suez Canal University,
Ismailia Governorate, Egypt

Luigi Troisi

School of Specialization in Plastic,
Reconstructive, and Aesthetic Surgery,
University of Milan, Milan, Italy

Sonu Jain

Department of Plastic and
Reconstructive Surgery,
The Ohio State University
Wexner Medical Center,
Columbus, Ohio, United States

Takehiko Takagi

Department of Pediatric Orthopedics,
National Center for Child Health and
Development, Tokyo, Japan

Editorial Board

Yoshitaka Hamada

Department of Orthopedics, Kansai
Medical University Medical Center,
Osaka, Japan

Jerker Brandt

Department of Hand Surgery, Hand
Center Öresund, Baltzarsgatan,
Malmö, Sweden

Mathias Tremp

Department of Plastic, Reconstructive
and Aesthetic Surgery, University
Hospital Basel, University of Basel,
Basel, Switzerland
Hirslanden Medical Center, Zurich,
Switzerland

Jorge Boretto

Hand and Upper Extremity Surgery
Department, Prof. Dr. Carlos
Ottolenghi's Institute, Orthopaedic
and Traumatology Service, Hospital
Italiano de Buenos Aires, Buenos Aires,
Argentina

Anil K. Bhat

Department of Orthopaedics, Kasturba
Medical College Hospital, Manipal,
Mangaluru, India
Manipal Academy of Higher Education,
Manipal, Mangaluru, India

Xiaofang Shen

Department of Congenital Hand
Surgery and Microsurgery, WuXi Ninth
People's Hospital, China

Francisco Mercier

Department of Hand Surgery, Clínica
Lambert Rua, Cordeiro, Portugal

Chul Ki Goorens

Department of Orthopaedics and
Traumatology, Regional Hospital of
Tienen, Tienen, Belgium

Yung-Cheng Chiu

Division of Hand and Microsurgery,
Department of Orthopedic Surgery,
China Medical University Hospital,
Taichung City, Taiwan

Achilleas Thoma

Division of Plastic Surgery,
Department of Surgery, McMaster
University, Ontario, Canada

Pingtak Chan

Department of Orthopaedics and
Traumatology, Tuen Mun Hospital,
Tuen Mun, Hong Kong

Stefano Artiaico

Department of Orthopaedics and
Traumatology, Orthopaedic and
Trauma Center, AOU Città della Salute
e della Scienza, Italy

Mohammad M. Al-Qattan

Division of Plastic Surgery, Research
Centre, College of Medicine, King Saud
University, Saudi Arabia

Vikas Gupta

Department of Shoulder and Hand
Surgery, Max Hospitals, Saket and
Gurgaon, India

Vijay Patil

Department of Orthopedics Surgery,
Basildon University Hospital, Basildon,
Essex, United Kingdom

Mohamed A. Ellabban

Plastic and Reconstructive Surgery
Unit, Department of Surgery, Faculty
of Medicine, Suez Canal University,
Ismailia, Egypt

Kemal Gokkus

Department of Orthopedics,
Traumatology, Baskent University
School of Medicine Alanya Research
and Practice Center Saray Mah,
Antalya, Turkey

Alexandru V. Georgescu

Department of Plastic and
Reconstructive Surgery, Clinical
Hospital of Rehabilitation, University
of Medicine Iuliu Hatieganu, Cluj
Napoca, Cluj, Romania

Mark Henry

Department of Orthopedics Surgery,
Hand and Wrist Center of Houston,
Houston, Texas, United States

Joon Pio Hong

Department of Plastic and
Reconstructive Surgery, Asan Medical
Centre, University of Ulsan College of
Medicine, Seoul, South Korea

Konstantinos N. Malizos

Department of Orthopaedic Surgery
and Musculoskeletal Trauma,
University of Thessaly, Thessaly,
Greece

Piza-Katzer Hildegunde

Department for Plastic and
Reconstructive Surgery, Medical
University Innsbruck, Innsbruck,
Austria

Neal C. Chen

Department of Orthopaedic Surgery,
Hand and Upper Extremity Service,
Massachusetts General Hospital-
Harvard Medical School, Boston,
Massachusetts, United States

Pankaj Jindal

Department of Hand Surgery,
Pune Hand Surgery Institute,
Pune, India

Sonu A. Jain

Department of Orthopaedics, The
Ohio State University Wexner Medical
Center, Columbus, Ohio, United States

Chaitanya S. Mudgal

Massachusetts General Hospital,
Boston, Massachusetts, United States

Ahmadreza Afshar

Department of Orthopedics, Imam
Khomeini Hospital, Urmia University of
Medical Sciences, Urmia, Iran

Ole Reigstad

Department of Orthopedics Surgery,
Oslo University Hospital, Norway

Seung-Hoon Baek

Department of Orthopedic Surgery,
Graduate School of Medicine,
Kyungpook National University,
South Korea

Steffen Low

Clinic for Orthopaedic and Trauma
Surgery, Caritas-Krankenhaus,
Germany

Hisham M. Awan

Department of Orthopaedics, The
Ohio State University Wexner Medical
Center, Columbus, Ohio, United States

Vaikunthan Rajaratnam

Orthopaedic Surgery, Khoo Teck Puat
Hospital, Yishun, Singapore

David Elliot

Department of Hand Surgery,
St. Andrew's Centre for Plastic Surgery
and Burns, Broomfield Hospital,
Broomfield, United Kingdom

Kota Hayashi

Department of Orthopedics, Ogori
Daiichi General Hospital, Yamaguchi,
Japan

Wei F. Chen

Department of Plastic and
Reconstructive Microsurgery,
Cleveland Clinic, Cleveland, Ohio,
United States

Hyun-Chul Park

Department of Orthopaedics,
Hand and Microsurgery, Guriuison
Orthopaedic Surgery Hospital,
Geombae-ro, Guri-si, Gyeonggi-do,
Korea

Andrey Aristov

Science Research Institution,
Krasnodar Regional Hospital,
Krasnodar, Russia

© 2023. Society of Indian Hand Surgery & Microsurgeons. All rights, including the rights of publication, distribution, and sales, as well as the right to translation, are reserved. No part of this work covered by the copyrights hereon may be reproduced or copied in any form or by any means – graphic, electronic, or mechanical, including photocopying, recording, taping, or information and retrieval systems – without written permission of the publisher.

Journal of Hand and Microsurgery is published four times a year in January, April, July, October by Thieme Medical and Scientific Publishers Private Limited, A - 12, Second Floor, Sector - 2, Noida - 201301, Uttar Pradesh, India. Tel: +91-120-4556600, Fax: +91-120-455-6649.

Subscription: Open access journals available online for free at <http://open.thieme.com>.

Advertisers contact: Marketing, Thieme Publishers Delhi, A-12, Second Floor, Sector -2, Noida-201301, Uttar Pradesh, marketing@thieme.in.

Journal of Hand and Microsurgery is indexed in SCOPUS, PubMed Central, Google Scholar, Academic OneFile, Expanded Academic, OCLC, and Emerging Sources Citation Index. Thieme Medical Publishers is a member of the CrossRef initiative.

Editorial comments should be sent to journals@thieme.com. The content of this journal is available online at www.thieme-connect.com/products. Visit our Web site at www.thieme.com and the direct link to this journal at www.thieme.com/jham.

Typesetting: DiTech Process Solutions Pvt. Ltd. Mumbai, India

Printing and Binding: Avantika Printers Pvt. Ltd.

Printed in India