

The Journal of Hand Surgery

An International Journal Devoted
to Surgery of the Upper Extremity



ASSH

American Society for
Surgery of the Hand

Editor-in-Chief

Brent Graham • Toronto, Ontario, Canada

Deputy Editor of Methodology

Ryan Calfee • St. Louis, MO

Deputy Editor of Review

Dawn M. LaPorte • Baltimore, MD

Deputy Editor-in-Chief

Jennifer Moriatis Wolf • Chicago, IL

Deputy Editor of Social Media

Raymond B. Raven • Burbank, CA

Associate Editors

Julie E. Adams, Minneapolis, MN
O. Alton Barron, New York, NY
Andrea S. Bauer, Boston, MA
Harvey W. Chim, Gainesville, FL
Alphonsus K. Chong, Singapore
Kevin C. Chung, Ann Arbor, MI
Soumen Das De, Singapore
David G. Dennison, Rochester, MN
Marybeth Ezaki, Dallas, TX
John Fowler, Pittsburgh, PA
Paige M. Fox, Palo Alto, CA
Charles A. Goldfarb, St. Louis, MO
Christopher Got, Providence, RI
Michael B. Gottschalk, Atlanta, GA
Ruby Grewal, London, Ontario, Canada
Carl M. Harper, Boston, MA
Jerry I. Huang, Seattle, WA
Matthew Iorio, Denver, CO
Jonathan E. Isaacs, Richmond, VA
Sanjeev Kakar, Rochester, MN
Robin Kamal, Palo Alto, CA
Ryan Katz, Baltimore, MD
Nikolas H. Kazmers, Salt Lake City, UT
Stephen A. Kennedy, Seattle, WA
Graham J.W. King, London,
Ontario, Canada
Jason H. Ko, Evanston, IL
Lewis B. Lane, Manhasset, NY
Scott D. Lifchez, Baltimore, MD
John D. Lubahn, Erie, PA
Gregory Merrell, Indianapolis, IN
Amy M. Moore, St. Louis, MO
Peter M. Murray, Jacksonville, FL
Nash Naam, Effingham, IL

Christine Novak, Toronto,
Ontario, Canada
Jason A. Nydick, Tampa, FL
Kerby C. Oberg, Loma Linda, CA
Daniel A. Osei, New York, NY
Kagan Ozer, Ann Arbor, MI
Rita Patterson, Fort Worth, TX
Craig S. Phillips, Chicago, IL
Douglas E. Pittner, Camp Lejeune, NC
Lee M. Reichel, Austin, TX
Craig M. Rodner, Farmington, CT
Sarah Sibbel, Denver, CO
Roger L. Simpson, Garden City, NY
Gordon M. Singer, Jerusalem, Israel
Brandon S. Smetana, Indianapolis, IN
John M. Stephenson, Little Rock, AR
Robert J. Strauch, New York, NY
Jason A. Strelzow, Chicago, IL
Scott M. Tintle, Bethesda, MD
Jennifer F. Waljee, Ann Arbor, MI
Lindley Wall, St. Louis, MO
Dan A. Zlotolow, Philadelphia, PA

ASSH Journal Advisory Group

Martin I. Boyer, St. Louis, MO
Warren C. Hammert, Rochester, NY
Michael R. Hausman, New York, NY

Editorial Offices

The Journal of Hand Surgery
American Society for Surgery
of the Hand
822 West Washington Boulevard
Chicago, IL 60607
Phone: (312) 880-1900
Fax: (847) 384-1435

EUROPEAN VOLUME

Editor-in-Chief

Jin Bo Tang, Nantong

Editors

Michel Boeckstyns, Hellerup
Tim Hems, Glasgow
Geoffrey Hooper, Edinburgh
Wee Lam, Edinburgh
Mike Rüttermann, Groningen and Oldenburg

Assistant Editor

Roy Meals, Los Angeles

Social Media Editors

Zaf Naqui, Salford
Wee Sim Khor, Manchester

Scientific Advisor

Peter Burge, Oxford

Statistical Advisors

Mikael Åström, Lund
Dieuwke Broekstra, Groningen
Paul Cool, Oswestry
Martyn Hill, Southampton
Jonah Stunt, Amsterdam

Editorial Board

Sudhi Ankarath, Huddersfield
Jeremy Bland, Canterbury
Kevin Chung, Michigan
Nicholas Downing, Nottingham
Sue Fullilove, Plymouth
Carlos Heras-Palou, Derby
Nadine Hollevoet, Gent
James Hopkinson-Woolley, Cambridge
Steven Hovius, Rotterdam
Christina Jerosch-Herold, Norwich
Ian Leslie, Bristol
Andrew Logan, Cardiff
Shai Luria, Jerusalem
Jane McEachan, Dunfermline
Charles Pailthorpe, Reading
Jeremy Rodrigues, Oxford and Aylesbury
Alistair Ross, Bath
Roberto Sanchez-Rosales, La Laguna, Tenerife
Andrew Smith, Margate
Mike Solomons, Cape Town
Ryan Trickett, Cardiff
Paul Werker, Groningen