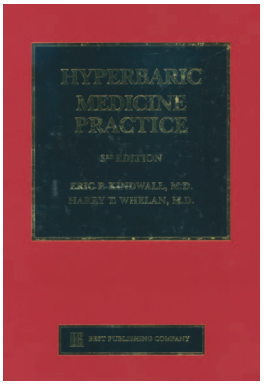
As a service to our readers, *Plastic and Reconstructive Surgery*® reviews books, DVDs, practice management software, and electronic media items of educational interest to reconstructive and aesthetic surgeons. All items are copyrighted and available commercially. The *Journal* actively solicits information in digital format (e.g., CD-ROM and Internet offerings) for review.

Reviewers are selected on the basis of relevant interest. Reviews are solely the opinion of the reviewer; they are usually published as submitted, with only copy editing. *Plastic and Reconstructive Surgery*® does not endorse or recommend any review so published. Send books, DVDs, and any other material for consideration to: Ronald P. Gruber, M.D., Review Editor, *Plastic and Reconstructive Surgery*, UT Southwestern Medical Center, 5323 Harry Hines Boulevard, HD1.544, Dallas, Texas 75390-8820.

Ronald P. Gruber, M.D.
Review Editor

Hyperbaric Medicine Practice, 3rd Edition

Edited by Eric P. Kindwall, M.D., and Harry T. Whelan, M.D. Pp. 1056. Best Publishing Company, Flagstaff, Ariz. 2008. Price: $159.99.



Hyperbaric medicine has had an admittedly turbulent pathway as a specialty, oftentimes falling victim to inappropriate or unindicated uses, lack of evidence, and expensive infrastructural investments that can all have an impact on the growth of the specialty. Nonetheless, slowly, over time, there has been a dedicated effort to bring science and outcomes to the forefront. This third-edition, 1056-page hardback tome on hyperbaric medicine, co-edited by well-recognized authorities in the field, represents the culmination of almost a decade's worth of effort (since the first edition) to help document the basic science on, clinical application of, and evidence on hyperbarics.

The 41-chapter book is divided into three sections, "Hyperbaric Oxygenation: General Considerations," "Disorders Approved for Hyperbaric Treatment," and "Hyperbaric Oxygen Used in Off-Label Disorders and Investigational Areas." It draws on the expertise of a myriad of authors representing various aspects of the field—surgeons, anesthesiologists, neurologists, nurses, Ph.D.s, undersea medical officers, and others—who contribute their experience to the book. Each chapter begins with a concise overview of the subtopics covered, with associated page numbers for easy reference. Many chapters contain clear photographs, diagrams, tables, and figures that help clarify points to the reader and are an invaluable addition to the book.

Every chapter is well referenced, a critical point given the need for evidence in the field of hyperbaric medicine. The bibliographies are thorough and complete and serve as an easy guide for additional reading on any given subject covered within the chapter.

Several of the chapters contain additional material, such as author's notes and/or appendices. Frequently, the appendices take the form of reproduced references for the reader's convenience, a nice editorial touch. Two chapters in particular deserve mention for these value-added additions: chapter 6, on "Management of Critically Ill Patients in the Monoplace Hyperbaric Chamber," with its author's perspectives, meticulous content, accompanying photographs and figures, and five appendices reproducing peer-reviewed articles, and chapter 15, on "Wound Healing and Hyperbaric Oxygenation," co-authored by M. Gimbel and T. K. Hunt, with its thorough review and 172-reference bibliography. All chapters, however, are consistent in quality, which is not always the case in larger textbooks.

Overall, this third edition is an extremely well-edited, well-written, and well-referenced book. It emphasizes evidence and, most importantly, safety, both of which are paramount, particularly in this field. For those practitioners who are involved in hyperbaric medicine, this definitive text represents a must-read.

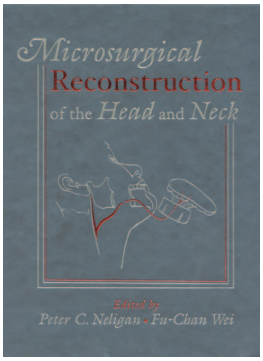
DOI: 10.1097/PRS.0b013e3181f56314

Jeffrey E. Janis, M.D.

Microsurgical Reconstruction of the Head and Neck

Edited by Peter C. Neligan and Fu-Chan Wei. Pp. 899. Quality Medical Publishing, Inc., St. Louis, Mo. 2010. Price: $275.

Microsurgical Reconstruction of the Head and Neck is a comprehensive guide to reconstruction of major defects that result from head and neck oncologic surgery, edited by two of world's most experi-



enced surgeons in this field. Among the many strengths of this book are the chapters written by experts from plastic surgery backgrounds as well as head and neck surgery backgrounds discussing their approach to head and neck reconstruction, region by region. Another strength is the inclusion of chapters dedicated to head and neck surgical, medical, and radiation oncology, as knowledge of how head and neck cancer is treated is requisite to being an effective head and neck reconstructive surgeon.

The book itself is entirely in color, and the illustrations are very good. References are included at the end of every chapter, and an effort was made to include only the most pertinent articles. The most important references are even annotated with a short précis. A few chapters are redundant, but probably rightly so, as there are controversies as to the best method of reconstructing some defects. For example, functional reconstruction of pharyngeal defects in a manner that reestablishes both swallowing and speech is described using both tubed cutaneous flaps with prosthetic speech in one chapter and small or large bowel flaps with "physiologic" speech valves (e.g., ileocolic valve in colonic free flaps) in a second chapter. Chapters devoted to prosthetic rehabilitation, osseointegrated implants, and static and dynamic facial nerve rehabilitation stand out as particularly useful, since these subjects are important but rarely covered in other reconstructive surgery texts.

Local flap reconstructions are covered only briefly; however, this text is meant to complement Ian Jackson's book, *Local Flaps in Head and Neck Reconstruction* (from the same publisher), and, therefore, focuses primarily on the treatment of very extensive defects for which free flaps are the reconstructive method of choice. *Microsurgical Reconstruction of the Head and Neck* is also a flap atlas of sorts, though it includes a description of but a handful of the most commonly used free flaps and does not describe or illustrate their dissection in the detail of Fu-Chan Wei and Samir Mardini's recent text, *Flaps and Reconstructive Surgery*. However, the goal of the present text is really to present how to be a head and neck reconstructive surgeon rather than to serve as a basic text on how to be a microvascular surgeon. As such, is conveys pearls of wisdom rather than step-by-step instructions.

The concepts and techniques described within represent the state of the art for microvascular head and neck reconstruction in 2010. It is impressive how much microsurgical reconstruction has evolved in the past two decades, since, for example, Mark Schusterman's *Microsurgical Reconstruction of the Cancer Patient*, which was published in 1997. For example, perforator flaps, free-style free flaps (flaps in which Doppler ultrasound is used to identify cutaneous perforating blood vessels around which a flap is designed, elevated, and then dissected in a retrograde fashion toward named pedicle vessels), and supramicrosurgical free flaps (flaps requiring anastomoses of vessels less than 1 mm in diameter) have become part of the reconstructive armamentarium since that time and are described in the present book. In fact, *Microsurgical Reconstruction of the Head and Neck* ends with a section entitled "The Future," which includes chapters on prefabricated and prelaminated flaps as well as on composite tissue transplantation, a field which is evolving almost daily, leaving one to wonder what future editions of this book will look like.

Overall, this text and the accompanying DVDs provide a well-illustrated, cutting-edge, and comprehensive perspective on microsurgical head and neck reconstruction.

DOI: 10.1097/01.prs.0000389062.44917.e3

Charles E. Butler, M.D.
Matthew M. Hanasono, M.D.