

Partial mastectomy reconstruction during breast-conserving surgery – classification of oncoplastic techniques

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Background: Most patients presenting with breast cancer are treated by breast-conserving therapy (BCT). Some of these patients present with poor cosmetic results after surgery. To avoid partial defects after BCT a wide spectrum of reconstructive techniques have been published during the last years – a concept termed **oncoplastic breast surgery**. To improve clinical utility of oncoplastic breast-conserving surgery we developed a classification of oncoplastic techniques with standardization of indications and surgical performance.

Material and Methods: We prospectively defined five major principles in oncoplastic breast surgery (Krämer et al., Breast Care 2007; 2: 299–306) based on the localization, size of the segmental resection defect, size of the breast and the necessity for skin resection during breast-conserving therapy. These major principles are: BCT-glandular rotation, BCT-dermoglandular rotation, BCT-tumoradapted reduction mammoplasty, BCT-thoracopeigastic flap, BCT-latisimus dorsi flap. We analyzed the clinical practicability and the cosmetic results. All patients received adjuvant postoperative radiotherapy. Systemic adjuvant treatment was applied according to international guidelines. 35 % of the treated patients received neoadjuvant chemotherapy. A tumor-free resection margin was mandatory and achieved in 93 % during first surgery, while in 5 % secondary mastectomy was required.

Reality of breast-conserving therapy



Principles of oncoplastic breast surgery
depending on: location, size, skin

1. Local tumor control: R0-resection
2. Reshaping and reconstruction of the breast: form, size and symmetry

Systematics of oncoplastic techniques in breast-conserving therapy
(the major principles)

- glandular rotation
- dermoglandular rotation
- tumoradapted reduction mammoplasty
- BCT-thoracopeigastic flap (CTPF)
- BCT-latisimus dorsi flap (LDF)

standardized oncoplastic reconstruction with local and distant tissue flaps
Krämer et al. Breast Care 2007; 2: 299-306

glandular rotation



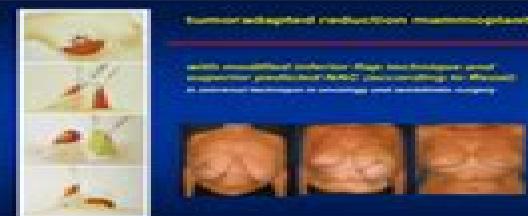
dermoglandular rotation

clinical view: patient 1, 2 and 3 in prone position



tumoradapted reduction mammoplasty

clinical view: patient 1, 2 and 3 in prone position



BCT-thoracopeigastic flap

clinical view: patient 1, 2 and 3 in prone position



BCT-latisimus dorsi flap

clinical view: patient 1, 2 and 3 in prone position



Results of oncoplastic breast-conserving therapy
2003 – 2007

Indication	Number of operations	Number of patients
Breast conserving therapy	474	474
Oncoplastic reconstruction of partial mastectomy defects	300	300
– Glandular rotation	160	160
– Dermoglandular rotation	100	100
– Tumoradapted reduction mammoplasty	40	40
– BCT-thoracopeigastic flap	20	20
– BCT-latisimus dorsi flap	20	20

Overall results after 1 year follow-up: good or excellent in 92 % (patient's view)

Conclusion: The use of five defined oncoplastic principles allows the reconstruction of segmental resection defects during breast-conserving therapy with highest clinical applicability and results in favourable esthetic outcomes. This approach might be useful in extending the indications for breast-conserving therapy. If we focus on an academic standpoint, these five major principles of oncoplastic breast-conserving surgery with standardized indication and surgical performance are a useful concept in our hands, to make oncoplastic breast surgery teachable and learnable for the next generation of breast surgeons.

Partial Breast Reconstruction Techniques In Oncoplastic Surgery

**Foad Nahai, William P. Adams,
Jr., Jeffrey M. Kenkel, John Hunter**

Partial Breast Reconstruction Techniques In Oncoplastic Surgery:

Partial Breast Reconstruction Albert Losken,Moustapha Hamdi,2017-04-15 FOUR STARS from Doody's Star Ratings This second edition of Partial Breast Reconstruction Techniques in Oncoplastic Surgery builds on and expands the authoritative procedures presented in the first edition adding and updating the content with up to the minute concepts techniques and innovations in oncoplastic breast surgery all elucidated with hundreds of color images and illustrations This edition offers readers the following A breadth of topics presented by internationally recognized experts from a range of disciplines from the US Europe United Kingdom and South America A systematic chapter structure that provides patient presentation workup surgical techniques and follow up for each approach Emphasis on the essential contributions of all members of the multidisciplinary team Extensive coverage of oncologic principles indications psychological considerations body image the challenges of radiotherapy and postoperative surveillance Prevention and correction of BCT deformities Exploration of the risks and benefits of delayed versus immediate reconstruction Reduction and mastopexy techniques with parenchyma autoaugmentation central defect reconstruction fat grafting and local and perforator flap reconstruction techniques Outcomes presented as the ultimate proof of the validity of each technique with long term follow up Treatment of complications Provided in both printed and e book formats with multiple videos of techniques As the oncoplastic approach to partial breast reconstruction continues to grow exponentially in popularity as a reliable treatment option the updated information provided in this comprehensive new edition is absolutely essential to every surgeon performing partial breast reconstruction for women with breast cancer

Partial Breast Reconstruction Albert Losken,Moustapha

Hamdi,2016-09-19 The new edition includes increased video DVD coverage new chapters on BRAVA tissue expansion flaps and increased detail on mega filling the breast with fat The book is published with a bundled eBook which includes an image library so all the images can be downloaded

Oncoplastic and Reconstructive Management of the Breast, Third

Edition Steven Kronowitz,John Benson,Maurizio Nava,2020-04-07 Oncoplastic and Reconstructive Management of the Breast Third Edition provides a comprehensive and contemporary account of techniques in oncoplastic and reconstructive breast surgery Uniquely this book includes short concise chapters containing only the most critical information Many of the chapters are entitled My Approach and this enables the reader to gain an insight into the clinical practice of the world's breast disease experts The true multidisciplinary nature of the book ensures that the perspectives of all members of the breast cancer team are included This transfer of knowledge between disciplines leads to improved patient care and the integration of multidisciplinary treatment thus providing an educational and practical multidisciplinary breast cancer book for practicing breast cancer doctors and trainees worldwide

Oncoplastic Surgery of the Breast with DVD Maurice Y Nahabedian,2009-05-28 Well recognized international authorities in breast and plastic surgery contribute their expert advice and guidance on aesthetic closure of the breast They discuss all key areas from indication and selection of patients to the

techniques and allied issues related to breast tumor surgery including oncoplastic reduction mammoplasty mastectomy with nipple areolar preservation perforator flaps effects of radiation therapy as well as complications and controversies All this combined with full color photographs and line drawings provide real life clinical detail and clear visual guidance everything you need to master oncoplastic surgery Covers the key techniques used in achieving aesthetic closure of the breast after tumor removal to provide you with a focused clinical guide Provides real life clinical detail and clear visual guidance to operative steps through full color clinical photographs and line drawings Follows a consistent chapter format with summary information highlighted in key point boxes and clinical pearls for quick and easy access

Oncoplastic Breast Surgery

Techniques for the General Surgeon V. Suzanne Klimberg,Tibor Kovacs,Isabel T. Rubio,2020-05-22 This book covers an up to date review of advances in the management strategies for patients with breast cancer and their co morbidities Oncoplasty has become the standard of care for breast conservation surgery and can lead to improving aesthetic outcomes of breast cancer surgery without compromising oncological outcomes The goal of the text is to increase the competencies and performance of healthcare professionals involved in treating this patient population which will ultimately improve the aesthetic outcomes quality of life and overall survival of patients with breast disease and breast cancer Written by experts in the field chapters address a wide range of breast surgery techniques that help the general surgeon provide improved oncologic and aesthetic results for patients The authors have detailed not only best practice for conventional procedures but also new and evolving techniques Oncoplastic Breast Surgery Techniques for the General Surgeon serves as a valuable resource not only for medical students but also for the general surgeon seeking to improve results in private practice and for professors learning and teaching new breast surgery techniques

Oncoplastic Breast Surgery Florian Fitzal,Peter Schrenk,2010-05-06

The initial idea to write a book on oncoplastic techniques was raised through a meeting on breast cancer treatment in Saalfelden A tria two years ago Contrary to the rather minor role breast surgery is conceded today compared to other treatment modalities the s geons role on the further outcome of the disease is crucial and never compensated by radiation or adjuvant therapy Whereas surgery a decade ago was merely excision of the cancer and closure of the wound leaving behind a mutilated breast in many women the advent of oncoplastic surgery completely changed the modern surgical approach to breast cancer The concept of oncoplastic breast surgery combines oncologic mor resection either breast conservation or mastectomy with t ditional or less traditional plastic surgical techniques The primary goal is to achieve an optimal cosmetic result with long time local tumor control Some non randomized studies available in patients following breast conservation oncoplastic surgery showed tumor resection to be associated with wider free margins less patients needing re operation surgery for involved or close margins a widening of the indications for breast conser tion surgery a low complication rate and at least an equal local recurrence rate There is no doubt that oncoplastic breast surgery experienced a r id rise with more patients demanding this kind of surgery However a profound knowledge of the different oncoplastic

techniques is sential for the outcome **Plastic Surgery E-Book** James C Grotting,Peter C. Neligan,2012-09-07 Fully updated to meet the demands of the 21st century surgeon Breast Volume 5 of Plastic Surgery 3rd Edition provides you with the most current knowledge and techniques in breast surgery allowing you to offer every patient the best possible outcome Access all the state of the art know how you need to overcome any challenge you may face and exceed your patients expectations Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Apply the very latest advances in breast plastic surgery and ensure optimal outcomes with evidence based advice from a diverse collection of world leading authorities Purchase this volume individually or own the entire set with the ability to search across all six volumes online Make optimal use of the latest practices in aesthetic breast surgery including imaging for breast augmentation and short scar mastopexy autologous lipofilling of the breast the use and challenges of silicone gel devices and new techniques for developmental and congenital deformities of the breast Know what to look for and what results you can expect with 1 300 photographs and illustrations See how to perform key techniques with 25 surgical videos online Access the complete fully searchable contents online download all the tables and figures and take advantage of additional content and images at www.expertconsult.com

Oncoplastic Surgery of the Breast Maurice Y. Nahabedian,2009-01-01 Well recognized international authorities in breast and plastic surgery contribute their expert advice and guidance on aesthetic closure of the breast They discuss all key areas from indication and selection of patients to the techniques and allied issues related to breast tumor surgery including oncoplastic reduction mammoplasty mastectomy with nipple areolar preservation perforator flaps effects of radiation therapy as well as complications and controversies The DVD of narrated video clips of techniques visually demonstrates procedures described within the book All this combined with full color photographs and line drawings provide real life clinical detail and clear visual guidance everything you need to master oncoplastic surgery Covers the key techniques used in achieving aesthetic closure of the breast after tumor removal to provide you with a focused clinical guide Provides real life clinical detail and clear visual guidance to operative steps through full color clinical photographs and line drawings Follows a consistent chapter format with summary information highlighted in key point boxes and clinical pearls for quick and easy access Shows narrated step by step procedures performed by experts as they happen in real life on the DVD of film clips

Oncoplastic surgery for breast cancer René Aloisio Da Costa Vieira,Gil Facina,Daniel Tiezzi,Cicero Urban,Ruffo de Freitas Junior,2024-04-04 *The Art of Aesthetic Surgery: Breast and Body Surgery, Third Edition - Volume 3* Foad Nahai,William P. Adams, Jr.,Jeffrey M. Kenkel,John Hunter,2020-07-06 The ultimate guide to aesthetic surgery from world famous aesthetic surgeon Foad Nahai The Art of Aesthetic Surgery Principles and Techniques Third Edition Breast and Body Surgery Volume 3 by internationally revered aesthetic surgeon Foad Nahai distinguished section editors William Adams Jeffrey Kenkel and John Hunter and an array of new contributors is part of an encyclopedic three volume masterwork Considered the quintessential

resource on cosmetic surgery since its inception readers can purchase each volume separately or as a set including a bonus e book with access to online videos The field of aesthetic plastic surgery has witnessed a dramatic increase in breast and body contouring procedures in normal weight patients as well as individuals who have lost massive amounts of weight As such new procedures and refinements of existing techniques have been developed since publication of the last edition Volume three features three updated sections focused on breast surgery female genital rejuvenation and an expanded number of noninvasive and minimally invasive body contouring procedures A new fourth section on gender affirming surgery encompasses facial and genital approaches in this growing subspecialty Key Highlights Thousands of high quality illustrations enhance understanding of state of the art approaches New breast chapters include composite primary and revision breast augmentation and management of capsular contracture New topics include liposuction and high definition liposculpture screening and safety issues in massive weight loss patients and brachioplasty This critically acclaimed resource provides trainees and experienced practitioners with a solid foundation for learning basic principles and techniques in aesthetic surgery with the ultimate goal of improving patient outcomes developing innovations and advancing the specialty

Oncoplastic and Reconstructive Breast Surgery Cicero Urban,Mario Rietjens,Mahmoud El-Tamer,Virgilio S. Sacchini,2019-06-08 This book demonstrates why oncoplastic and reconstructive surgery represents such an exciting tool for surgeons who undertake breast surgery Fundamental principles and basic concepts are clearly outlined and numerous techniques are presented by acknowledged experts from across the world The emphasis is very much on a how to do approach with detailed guidance and advice on the various techniques The informative text is supported by a wealth of color illustrations and accompanying videos of procedures can be accessed via the publisher s website This second edition of Oncoplastic and Reconstructive Breast Surgery has been completely revised and updated More than 25 additional chapters have been included and new videos of surgeries made available with the aim of making this already very successful book truly comprehensive and the most complete reference on the subject a true classic The new edition entails close collaboration between some of the most important centers for breast cancer treatment and research worldwide It will be an ideal resource for surgical fellows and specialists wishing to learn about indications and the selection of patients to master technical skills and to manage complications effectively

Pedicled Flaps in Partial Breast Reconstruction Moustapha Hamdi,Raghavan Vidya,Amit Agrawal,2023-05-31 Breast cancer is one of the most common cancer forms worldwide and has become the commonest cancer in women in most parts of the world Surgery remains the single best treatment modality and globally breast conservations are on the rise with increasing Oncoplastic techniques Oncoplastic techniques have evolved over the last decade with the increasing use of pedicled flaps to enable partial breast reconstruction This handy guide fills a gap in available publications to describe current trends to help advance the knowledge and update skills of the reader After an historical introduction chapters on pre operative mapping and imaging as well as on patient selection for each approach

over eleven chapters are devoted to specific flaps and to their combination The crucial management of complications and radiotherapy planning are also developed in dedicated parts With contributions from world renowned plastic and oncoplastic breast surgeons step by step videos linked to the surgical chapters and a wealth of original photographs and illustrations Pedicled Flaps in Partial Breast Reconstruction will be a valued reference for fellows residents practicing and highly experienced plastic surgeons breast surgeons and practitioners in related surgical sub specialties who will find this a useful tool in their day to day practice

[Plastic Surgery: 6 Volume Set - E-Book](#) Peter C. Neligan, 2023-09-25 Comprehensive and fully up to date Dr Peter Neligan's six volume masterwork Plastic Surgery 5th Edition remains the gold standard text in this complex area of surgery Completely revised to meet the demands of both the trainee and experienced surgeon it features new full color clinical photos procedural videos and lectures across all six volumes Bonus material online includes additional text images and over 200 procedural videos that help you improve your mastery of the latest techniques Easily find the answers you need with an organization that features separate volumes covering Principles Aesthetic Craniofacial Head and Neck Surgery and Pediatric Plastic Surgery Lower Extremity Trunk and Burns Breast and Hand and Upper Extremity Each easily readable individual volume is a standalone comprehensive text full of salient and applicable anatomy and techniques Key procedures include gender affirmation management and surgery microsurgery and surgery for lymphedema aesthetic facial surgery aesthetic body surgery and the education training and practice of plastic surgery New digital video preface by Dr Neligan addresses the changes across all six volumes New treatment and decision making algorithms added to chapters where applicable New video lectures and editor narrated slide presentations offer a step by step audiovisual walkthrough of techniques and procedures Four new international experts join the editorial team and lead editor Peter C Neligan creates a cohesive tone throughout the chapters and content across all six volumes Evidence based advice from a diverse collection of experts allows you to apply the very latest advances in every area of plastic surgery and ensure optimal outcomes Purchase only the volumes you need or own the entire set with the ability to search across all six volumes online

[Changing Paradigms in Breast Cancer Diagnosis and Treatment, An Issue of Surgical Oncology Clinics of North America, E-Book](#) Kelly K. Hunt, 2017-11-21 This issue of Surgical Oncology Clinics of North America guest edited by Dr Kelly Hunt is devoted to Changing Paradigms in Breast Cancer Diagnosis and Treatment Dr Hunt has assembled expert authors to review the following topics Tomosynthesis in breast cancer imaging how does it fit into preoperative evaluation and surveillance Lobular breast cancer different disease different algorithms Hypofractionated radiation therapy in breast conserving therapy Oncoplastic breast reconstruction should all patients be considered Neoadjuvant endocrine therapy who benefits most Breast cancer disparities how can we leverage genomics to improve outcomes Anatomy and breast cancer staging is it still relevant When does atypical ductal hyperplasia require surgical intervention Surgical intervention for lymphedema Are there alternative strategies in the local management of DCIS Genetic testing and genetic counseling what is standard of care

Molecular subtypes and local regional control of breast cancer Intraoperative margin assessment in breast cancer management Triple negative breast cancer who should receive neoadjuvant chemotherapy and more [Principles And Techniques In Oncoplastic Breast Cancer Surgery](#) Mahmoud El-tamer,2012-09-07 Oncoplastic breast cancer surgery is one of the fastest growing domains in breast surgery This approach is continuing to gain practice acceptance due to increased emphasis on both optimum cosmetic outcome and maintenance of a sound oncologic basis This book summarizes the basic principles and techniques using evidence based data Patient images and comprehensive drawings complete this practical guide for surgeons who treat diseases of the breast **Oncoplastic Breast Surgery** Florian Fitzal,Peter Schrenk,2015-06-18 This book presents 50 cases encompassing a broad range of oncoplastic breast surgeries Each case is dedicated to a particular surgical technique using classifications of good bad and ugly to point out potential pitfalls and to optimize post surgery results With the help of more than 500 high quality illustrations and photos and detailed step by step instructions the editors respected experts in their field describe the most common procedures Now in its second edition this comprehensive surgical atlas provides practical guidance for various oncoplastic techniques used in breast conservation surgery and mastectomy with immediate reconstruction The book will be a valuable resource not only for surgeons specialized in breast cancer therapy but also for general surgeons and gynecologists as well as for plastic and reconstructive surgeons

Schwartz's Principles of Surgery, Ninth Edition F. Charles Brunicardi,Dana K. Andersen,Timothy R. Billiar,David L. Dunn,John G. Hunter,Jeffrey B. Matthews,Raphael E. Pollock,2009-10-23 The 1 surgical practice and education resource completely updated and now in full color A Doody's Core Title ESSENTIAL PURCHASE for 2011 4 STAR DOODY'S REVIEW In its evolution over nine editions Schwartz's Principles of Surgery has reflected the latest in surgical practice In the age of minimally invasive surgery illustrations are important and these authors include a wealth of visual material of good to excellent quality Doody's Review Service Written by the world's foremost practitioners and instructors this landmark reference logically progresses from basic science principles including topics such as cells genomics and molecular surgery to clinical areas such as pancreas From cover to cover the book reflects a distinctly modern approach in the dissemination of surgical knowledge providing up to date coverage of all key surgical areas from trauma and transplantation to neurosurgery In each chapter this content is supported by a skill building format that includes boxed key points detailed anatomical figures diagnostic and management algorithms an abundance of informative tables and key references For every kind of procedure this one of a kind clinical companion helps you meet the sequential demands in the care of surgical patients leading to the best possible outcomes NEW TO THIS EDITION Full color design for easier navigation 2 new chapters Accreditation Council for Graduate Medical Core Competencies examines the six areas designated as critical for general surgery resident training and Ethics Palliative Care and Care at the End of Life offers an overview of biomedical ethics and surveys specific issues in surgical and professional ethics the general principles and considerations of palliative

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Changing Paradigms in the Management of Breast Cancer

Marissa Howard-McNatt,2017-09-12 This text is designed to present a comprehensive and state of the art approach to the management of breast cancer within the fields of surgery medical oncology and radiation oncology Sections address changes in these fields These areas include breast imaging management of the axilla atypical breast lesions surgical margins new techniques in breast reconstruction and nipple sparing and contralateral mastectomies Subsequent chapters focus on issues in medical oncology including triple negative breast cancer and metastatic breast disease New paradigms in radiation oncology are examined Breast cancer treatment in the elderly and in young women and genetic risk in breast cancer management is also be discussed Written by experts in their field each of these sections addresses advances and changes in the field A brief review of the existing literature addressing the particular topic follows in each section The text concludes with chapters on pathological issues and advances in radiation oncology As access to a comprehensive multidisciplinary resource such as this is currently limited in the literature Changing Paradigms in the Management of Breast Cancer represents the first single source to provide information on advances and outcomes for the physician caring for breast cancer patients in a multidisciplinary setting

Kuerer's Breast Surgical Oncology Henry Kuerer,2010-02-08 A complete multidisciplinary guide to breast surgical oncology Includes DVD with surgical video clips and breast ultrasound atlas A Doody's Core Title for 2011 A British Medical Association Book Awards Runner up Oncology category Kuerer's new textbook of Breast Surgical Oncology is a comprehensive volume that contains exceptionally detailed and thorough information about the diverse aspects of breast cancer care and would serve as a valuable resource for any breast cancer clinician regardless of their specialty the book is easy to read and navigate where clinicians can quickly obtain reliable up to date information on a broad range of topics relevant to breast cancer Annals of Surgery August 2010 4 STAR DOODY S REVIEW a comprehensive and authoritative synthesis of current information is sorely needed and this book fulfills that need admirably The figures many in color and tables reproduce beautifully The chapters on ultrasound clinical trials and plastic surgery are particularly valuable This is a terrific and incredibly useful book on breast surgical oncology and will be an important reference in the field Doody's Review Service Written by an internationally recognized multidisciplinary team of authors Kuerer's Breast Surgical Oncology is the first text specifically dedicated to breast surgical oncology Turn to any page and you'll find cutting edge evidence based information and insights supplemented by a full color presentation and a companion DVD all designed to help provide a solid foundation for current and future best practices Kuerer's examines all clinically relevant knowledge in the field from the pathology of the breast and clinical management to follow up and complications following diagnosis and

therapy The book also focuses on the next wave of molecular studies that represent the future of the discipline Features Complete integration of the relevant disease pathology with clinical management Major sections on both oncoplastic and advanced operative management procedures An entire section on landmark breast cancer clinical trials that highlights essential knowledge and evidence in the field Full color design with 750 illustrations that depict anatomy breast cancer pathology and trial results A DVD with surgical video clips that details some of the important surgical techniques and procedures featured in the text An entire section on breast imaging and an atlas on breast ultrasound and biopsy techniques that facilitate accurate diagnosis and treatment Timely special chapter on the influence of the media and the internet on breast cancer care and the funding of breast cancer research A detailed overview of currently open and accruing clinical trials along with the future critical questions that must be answered to move the field forward Coverage of molecular findings that provides an enhanced perspective on the full spectrum of malignancies with which they work **Oncoplastic and Reconstructive Surgery of the Breast** Guidubaldo Querci della Rovere, John R. Benson, Maurizio Nava, 2010-11-23 This book is a timely publication capturing recent developments in the fields of oncoplastic surgery and whole breast reconstruction The highly successful first edition has been completely updated and expanded by leading oncologists and surgeons with key features including A comprehensive account of surgical techniques with over 300 colour figures

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