

# images of diep flap reconstruction

**images of diep flap reconstruction** provide critical visual insight into the surgical technique known as the Deep Inferior Epigastric Perforator (DIEP) flap procedure. This method is a specialized form of breast reconstruction that uses a patient's own abdominal skin and fat to recreate the breast following mastectomy. Understanding the images related to DIEP flap reconstruction helps patients, surgeons, and medical professionals grasp the complexity, benefits, and expected outcomes of this advanced microsurgical technique. These images often depict preoperative planning, intraoperative steps, and postoperative results, highlighting the detailed anatomical considerations and aesthetic achievements. This article explores the significance of images of DIEP flap reconstruction, discusses the surgical procedure, patient selection criteria, recovery process, and potential complications. Additionally, it outlines how such images assist in patient education and surgical planning.

- Understanding DIEP Flap Reconstruction
- Role of Images in DIEP Flap Surgery
- Preoperative Imaging and Planning
- Intraoperative Images and Techniques
- Postoperative Images and Outcomes
- Patient Selection and Eligibility
- Recovery and Follow-Up Visualization
- Complications and Imaging

## Understanding DIEP Flap Reconstruction

DIEP flap reconstruction involves transferring skin and fat from the lower abdomen to the chest to reconstruct the breast after a mastectomy. Unlike other flap procedures, it preserves the abdominal muscles by carefully dissecting blood vessels called perforators that supply the flap tissue. Images of DIEP flap reconstruction typically illustrate the anatomy of these perforators, the harvested tissue, and the microsurgical connection to chest vessels. This procedure offers the advantage of a natural breast shape with minimal donor site morbidity compared to muscle-sacrificing techniques.

## Anatomy of the DIEP Flap

The DIEP flap consists of skin and fat from the lower abdomen supplied by the deep inferior epigastric artery and vein. Images often show the course of these vessels through the

rectus abdominis muscle and their perforators reaching the subcutaneous tissue. Understanding this vascular anatomy is crucial for the success of the flap and minimizing complications such as flap necrosis or abdominal weakness.

## **Comparison with Other Flap Techniques**

Images of DIEP flap reconstruction are frequently compared with those of TRAM (transverse rectus abdominis muscle) flaps and implant-based reconstruction. The visual differences emphasize the muscle preservation in DIEP, which correlates with a faster recovery and fewer abdominal complications. These comparative images aid surgeons and patients in decision-making by clearly illustrating the procedural distinctions.

## **Role of Images in DIEP Flap Surgery**

Images of DIEP flap reconstruction serve multiple purposes throughout the surgical process. They facilitate preoperative planning, intraoperative guidance, and postoperative assessment. High-quality photographic and imaging documentation enhances the communication between surgical teams and patients, ensuring realistic expectations and improved outcomes.

## **Educational Value for Patients**

Visual aids help patients understand the complexity of DIEP flap reconstruction, the location of incisions, and the anticipated results. Images showing before-and-after cases demonstrate potential cosmetic outcomes, enabling patients to make informed decisions about their reconstruction options.

## **Surgical Training and Reference**

For surgeons, detailed images and videos of the DIEP flap procedure are valuable for education and skill development. They provide reference points for anatomical variations and technical nuances, which are critical in microsurgical procedures demanding precision.

## **Preoperative Imaging and Planning**

Preoperative imaging plays a vital role in DIEP flap reconstruction, allowing surgeons to map out perforator vessels and assess tissue quality. Images such as computed tomography angiography (CTA) or magnetic resonance angiography (MRA) provide three-dimensional visualization of the vascular anatomy.

## **CT Angiography in DIEP Flap Planning**

CTA images highlight the location, size, and course of the deep inferior epigastric perforators. This information guides the surgeon in selecting the most suitable perforators for flap harvest, reducing operative time and minimizing donor site complications.

## **Ultrasound and Doppler Imaging**

Ultrasound with Doppler flow studies is another imaging modality used preoperatively to identify perforator vessels. These images complement CTA and are useful in patients contraindicated for contrast studies.

## **Intraoperative Images and Techniques**

During surgery, images capture critical steps such as flap elevation, vessel dissection, and microvascular anastomosis. These photographs and videos document the meticulous process of preserving muscle function while ensuring flap viability.

## **Flap Harvesting and Vessel Dissection**

Intraoperative images typically show the careful dissection of perforators through the rectus muscle and the elevation of the skin and fat flap. These visuals emphasize the importance of preserving muscle integrity and ensuring adequate blood supply.

## **Microsurgical Anastomosis**

Close-up images of the microsurgical connection between the flap vessels and recipient chest vessels demonstrate the precision required to restore circulation to the transplanted tissue. This step is critical to flap survival and the overall success of the reconstruction.

## **Postoperative Images and Outcomes**

Postoperative images document the results of DIEP flap reconstruction, including breast shape, symmetry, and donor site healing. These images are essential for evaluating surgical success and guiding further treatment if necessary.

## **Early Postoperative Appearance**

Images taken shortly after surgery show the initial flap position, incision healing, and signs of adequate perfusion. Monitoring these images helps detect early complications such as hematoma or flap congestion.

## **Long-Term Aesthetic Results**

Follow-up images taken months after surgery reveal the final breast contour, scar maturation, and abdominal donor site condition. These images provide objective evidence of the procedure's effectiveness and patient satisfaction.

## **Patient Selection and Eligibility**

Images of DIEP flap reconstruction are also utilized in assessing patient candidacy for the procedure. Visual documentation of patient anatomy, including abdominal tissue availability and chest wall condition, informs surgical planning.

## **Ideal Candidates for DIEP Flap**

Patients with sufficient abdominal tissue, good overall health, and no contraindications to microsurgery are typically selected for DIEP flap reconstruction. Images showing adequate donor site tissue thickness and vascular anatomy support this determination.

## **Contraindications and Limitations**

Visual assessment aids in identifying factors that may preclude DIEP flap surgery, such as previous abdominal surgeries, inadequate perforator vessels, or poor skin quality. These considerations are crucial to avoid complications and poor outcomes.

## **Recovery and Follow-Up Visualization**

Throughout recovery, images document wound healing, scar progression, and any changes in breast or abdominal contour. This visual monitoring helps clinicians adjust postoperative care and rehabilitative strategies.

## **Monitoring Donor Site Healing**

Images of the abdominal donor site track scar formation, muscle function, and any signs of hernia or bulging. This ongoing assessment ensures early intervention if complications arise.

## **Breast Reconstruction Follow-Up**

Serial images of the reconstructed breast assess volume retention, symmetry, and skin quality over time. These visuals are integral to patient satisfaction and long-term success of the DIEP flap procedure.

# Complications and Imaging

Images are critical in diagnosing and managing complications associated with DIEP flap reconstruction. Visual documentation supports timely identification and treatment of issues such as flap necrosis, infection, or donor site problems.

## Flap Compromise and Necrosis

Photographs showing discoloration, swelling, or skin changes on the reconstructed breast can indicate compromised blood flow or necrosis. Early detection through images enables prompt surgical or medical intervention.

## Abdominal Complications

Imaging of the donor site can reveal hernias, seromas, or wound dehiscence. Visual evidence guides clinical decisions regarding additional procedures or conservative management.

## Summary of Key Visual Elements in DIEP Flap Reconstruction

- Preoperative vascular mapping images (CTA, Doppler)
- Intraoperative photographs of flap harvest and vessel anastomosis
- Postoperative photos showing breast and donor site healing
- Sequential imaging for monitoring recovery and complications
- Comparative visuals demonstrating advantages over other techniques

## Frequently Asked Questions

### What is DIEP flap reconstruction?

DIEP flap reconstruction is a type of breast reconstruction surgery that uses skin and fat from the lower abdomen to rebuild the breast after mastectomy, preserving the abdominal muscles.

## **Where can I find images of DIEP flap reconstruction results?**

Images of DIEP flap reconstruction results can be found on medical websites, plastic surgery clinics' galleries, academic journals, and patient forums dedicated to breast reconstruction.

## **What do preoperative images of DIEP flap reconstruction typically show?**

Preoperative images usually show the mastectomy site and the abdominal area from where the tissue will be harvested for the reconstruction.

## **How do postoperative images of DIEP flap reconstruction help patients?**

Postoperative images help patients understand the expected outcomes, healing process, and potential scarring associated with DIEP flap reconstruction.

## **Are there 3D images or animations available for DIEP flap reconstruction?**

Yes, some medical websites and educational platforms offer 3D animations and images to illustrate the DIEP flap procedure and its steps in detail.

## **What differences are visible in images comparing DIEP flap to other flap reconstructions?**

Images comparing DIEP flap to other flaps highlight that DIEP preserves abdominal muscles, resulting in less donor site morbidity and a more natural breast contour.

## **Can I see images of complications related to DIEP flap reconstruction?**

Yes, some medical resources and case studies provide images of potential complications such as flap necrosis, infection, or fat necrosis associated with DIEP flap reconstruction.

## **How soon after surgery are images taken to show DIEP flap reconstruction?**

Images are typically taken immediately post-surgery, at several weeks, and months afterward to document healing and the final aesthetic outcome.

## **Are there patient-shared images of DIEP flap**

## reconstruction available online?

Yes, many patients share their DIEP flap reconstruction journey and images on social media platforms and support groups to provide real-life perspectives.

## What should I look for in images to evaluate the success of DIEP flap reconstruction?

Look for symmetry with the natural breast, minimal visible scarring, natural contour and shape, and absence of signs of complications in the images.

## Additional Resources

### 1. *Deep Inferior Epigastric Perforator (DIEP) Flap Breast Reconstruction: A Comprehensive Guide*

This book offers an in-depth exploration of DIEP flap breast reconstruction techniques, emphasizing surgical anatomy, patient selection, and postoperative care. Richly illustrated with detailed images and intraoperative photographs, it serves as an essential resource for plastic surgeons aiming to master this complex procedure. Case studies and complication management strategies further enhance its practical value.

### 2. *Microsurgical Techniques in DIEP Flap Reconstruction*

Focused on the microsurgical aspects of DIEP flap procedures, this title provides step-by-step guidance supported by high-quality images and diagrams. It covers vessel dissection, anastomosis, and flap monitoring, helping surgeons improve precision and outcomes. The book also addresses innovations in imaging technologies used during surgery.

### 3. *Atlas of DIEP Flap Breast Reconstruction*

This atlas is a visual treasure trove featuring hundreds of color photographs and illustrations capturing every stage of DIEP flap surgery. From preoperative planning to flap inset and contouring, it serves as a practical visual reference for both trainees and experienced surgeons. The concise captions and explanatory notes make complex concepts accessible.

### 4. *Reconstructive Surgery of the Breast: DIEP Flap and Beyond*

Covering a broad spectrum of breast reconstruction options with a focus on DIEP flap methods, this book blends clinical insights with comprehensive imagery. It discusses patient outcomes, aesthetic considerations, and long-term follow-up. The inclusion of comparative images helps surgeons evaluate different reconstructive strategies.

### 5. *Advanced DIEP Flap Reconstruction: Techniques and Complications*

Targeted at experienced reconstructive surgeons, this text delves into advanced surgical techniques and troubleshooting common complications in DIEP flap reconstruction. Illustrated with clinical photos and imaging studies, it provides practical solutions for flap salvage and revision procedures. The book's detailed visual content aids in understanding complex surgical scenarios.

### 6. *Imaging and Planning in DIEP Flap Breast Reconstruction*

This specialized book focuses on preoperative imaging modalities such as CT angiography

and Doppler ultrasound to optimize DIEP flap planning. It includes numerous annotated images demonstrating perforator mapping and vascular anatomy. Surgeons will find it invaluable for enhancing flap design and minimizing intraoperative surprises.

#### 7. *Patient-Centered DIEP Flap Reconstruction: A Visual Approach*

Emphasizing the patient's perspective, this book combines clinical images with patient narratives to highlight the impact of DIEP flap reconstruction on quality of life. It features before-and-after photos and discusses aesthetic outcomes and psychosocial benefits. The approachable visual style makes it suitable for both clinicians and patients.

#### 8. *The Surgical Anatomy of DIEP Flap: Illustrated Guide*

Providing a detailed anatomical roadmap, this guide uses precise illustrations and photographs to elucidate the vascular and tissue structures involved in DIEP flap harvesting. It is an indispensable tool for surgeons seeking to enhance their anatomical knowledge and surgical precision. The clear imagery supports safer and more effective flap dissections.

#### 9. *Contemporary Techniques in Autologous Breast Reconstruction: DIEP Flap Focus*

This contemporary manual highlights the latest innovations and refinements in DIEP flap reconstruction, supported by an extensive collection of operative images and diagrams. Topics include flap perfusion assessment, donor site optimization, and integration of new technologies. It is designed to keep surgeons at the forefront of autologous breast reconstruction practices.

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**images of diep flap reconstruction:** *Breast Reconstruction* Melvin A. Shiffman, 2015-10-30  
This book, written by leading international experts in the field, offers a comprehensive overview of the latest developments in breast reconstruction. A particular feature is the presentation of a multitude of new clinical techniques, with high-quality supporting illustrations. The opening sections document the history of breast reconstruction, describe the anatomy of the pectoral muscles, pectoral nerves and perforator flaps and provide guidance on preoperative imaging and planning. After full documentation of techniques (including use of autogenous tissues and prosthetic implants), further sections are devoted to the effects of chemotherapy and radiation, the role of angiography and thermography, monitoring, quality of life outcomes and complications and their management. The book will be invaluable both for residents and fellows and for practicing and highly experienced cosmetic surgeons, plastic surgeons, general surgeons, and those in cosmetic surgical subspecialties.

**images of diep flap reconstruction:** *Imaging for Plastic Surgery* Luca Saba, Warren M. Rozen, Alberto Alonso-Burgos, Diego Ribuffo, 2018-10-09  
Preoperative imaging is increasingly being adopted for preoperative planning in plastic and reconstructive surgery. Accurate preoperative analysis can reduce the length of operations and maximize surgical design and dissection



techniques. Imaging for Plastic Surgery covers the techniques, applications, and potentialities of medical imaging technology in plastic and reconstructive surgery. Presenting state-of-the-art research on evolving imaging modalities, this cutting-edge text: Provides a practical introduction to imaging modalities that can be used during preoperative planning Addresses imaging principles of the face, head, neck, breast, trunk, and extremities Identifies the strengths and weaknesses of all available imaging modalities Demonstrates the added value of imaging in different clinical scenarios Comprised of contributions from world-class experts in the field, Imaging for Plastic Surgery is an essential imaging resource for surgeons, radiologists, and patient care professionals.

**images of diep flap reconstruction: Medical Infrared Imaging** Mary Diakides, Joseph D. Bronzino, Donald R. Peterson, 2012-12-12 The evolution of technological advances in infrared sensor technology, image processing, smart algorithms, knowledge-based databases, and their overall system integration has resulted in new methods of research and use in medical infrared imaging. The development of infrared cameras with focal plane arrays no longer requiring cooling, added a new dimension to this modality. Medical Infrared Imaging: Principles and Practices covers new ideas, concepts, and technologies along with historical background and clinical applications. The book begins by exploring worldwide advances in the medical applications of thermal imaging systems. It covers technology and hardware including detectors, detector materials, un-cooled focal plane arrays, high performance systems, camera characterization, electronics for on-chip image processing, optics, and cost-reduction designs. It then discusses the physiological basis of the thermal signature and its interpretation in a medical setting. The book also covers novel and emerging techniques, the complexities and importance of protocols for effective and reproducible results, storage and retrieval of thermal images, and ethical obligations. Of interest to both the medical and biomedical engineering communities, the book explores many opportunities for developing and conducting multidisciplinary research in many areas of medical infrared imaging. These range from clinical quantification to intelligent image processing for enhancement of the interpretation of images, and for further development of user-friendly high-resolution thermal cameras. These would enable the wide use of infrared imaging as a viable, noninvasive, low-cost, first-line detection modality.

**images of diep flap reconstruction: Breast Imaging** Christoph I. Lee, Constance D. Lehman, Lawrence W. Bassett, 2018 Breast Imaging presents a comprehensive review of the subject matter commonly encountered by practicing radiologists and radiology residents in training. This volume includes succinct overviews of breast cancer epidemiology, screening, staging, and treatment; overviews of all imaging modalities including mammography, tomosynthesis, ultrasound, and MRI; step-by-step approaches for image-guided breast interventions; and high-yield chapters organized by specific imaging finding seen on mammography, tomosynthesis, ultrasound, and MRI. Part of the Rotations in Radiology series, this book offers a guided approach to breast imaging interpretation and techniques, highlighting the nuances necessary to arrive at the best diagnosis and management. Each chapter contains a targeted discussion of an imaging finding which reviews the anatomy and physiology, distinguishing features, imaging techniques, differential diagnosis, clinical issues, key points, and further reading. Breast Imaging is a must-read for residents and practicing radiologists seeking a foundation for the essential knowledge base in breast imaging.

**images of diep flap reconstruction: What Radiology Residents Need to Know: Breast Imaging** Priscilla J. Slanetz, Vandana Dialani, 2025-07-01 This book is an introduction to breast imaging, specifically designed for the needs of first through third year residents. While rotating through breast imaging, radiology residents are asked to learn significant amounts of information at a fast and unrelenting pace. However, most current books are densely written and contain far more material than residents need to know. Moreover, the number, variety and quality of images is often limited. What Radiology Residents Need to Know: Breast Imaging answers these needs by presenting the important information in bullet fashion, divided into convenient sub-units, such as "clinical information," "imaging findings" and "management." This book covers such topics as breast cancer, benign breast disease, image-guided interventions, pregnant and lactating patients,

transgender patients, and male breast disease. In addition, it contains tips on approaching and interpreting mammography, breast ultrasound, and breast MRI studies based on decades of practical experience and teaching residents at the work station as well as a list of common differentials. With liberal use of illustrations in the text and an online bank of many more high-quality images, this book gives readers a comprehensive library of breast imaging scans and serves as an ideal guide for radiology residents.

**images of diep flap reconstruction: Year Book of Diagnostic Radiology 2011** Anne G. Osborn, 2011-07-15 Year Book of Diagnostic Radiology 2011

**images of diep flap reconstruction: *Absolute Breast Imaging Review*** Lucy Chow, Bo Li, 2022-12-28 This book presents over 500 breast imaging questions with detailed answers to prepare readers for the Radiology Core Exam. Radiology residents looking for preparation materials to use for the Core Exam are often frustrated with the lack of resources available. This book addresses that lack by providing an informative and invaluable high-yield breast imaging case review book for board review and lifelong learning purposes. Editors and authors have collected numerous high quality breast imaging cases that directly align with each diagnosis the Core Exam has included in their study guide. Cases include modalities from mammogram, ultrasound, and MRI. High quality images are included for each case. The book is structured to follow the layout and topics of the ABR Study Guide, making all material boards-relevant. Within each section, cases are presented with boards-style multiple choice questions and detailed explanations, giving the reader over 500 breast imaging questions to learn from. Cases will include diagnosis, etiology, imaging characteristics, and management. Additional topics related to boards preparation and clinical practice are also addressed, including indications for screening, regulations, physics, and quality/safety. This is an ideal guide for radiology residents preparing for the breast imaging portion of their Radiology Core Examination, and for continued practice and learning for practicing radiologists.

**images of diep flap reconstruction: *Encyclopedia of Body Image and Human Appearance*** , 2012-04-11 This scholarly work is the most comprehensive existing resource on human physical appearance—how people’s outer physical characteristics and their inner perceptions and attitudes about their own appearance (body image) affect their lives. The encyclopedia’s 117 full-length chapters are composed and edited by the world’s experts from a range of disciplines—social, behavioral, and biomedical sciences. The extensive topical coverage in this valuable reference work includes: (1) Important theories, perspectives, and concepts for understanding body image and appearance; (2) Scientific measurement of body image and physical attributes (anthropometry); (3) The development and determinants of human appearance and body image over the lifespan; (4) How culture and society influences the meanings of human appearance; (5) The psychosocial effects of appearance-altering disease, damage, and visible differences; (6) Appearance self-change and self-management; (7) The prevention and treatment of body image problems, including psychosocial and medical interventions. Chapters are written in a manner that is accessible and informative to a wide audience, including the educated public, college and graduate students, and scientists and clinical practitioners. Each well-organized chapter provides a glossary of definitions of any technical terms and a Further Reading section of recommended sources for continued learning about the topic. Available online via ScienceDirect or in a limited-release print version. The Encyclopedia of Body Image and Human Appearance is a unique reference for a growing area of scientific inquiry It brings together in one source the research from experts in a variety of fields examining this psychological and sociological phenomenon The breadth of topics covered, and the current fascination with this subject area ensure this reference will be of interest to researchers and a lay audience alike

**images of diep flap reconstruction: *Breast Reconstruction*** Yueh-Bih Tang, 2024-06-12 This book, entitled Breast Reconstruction - Conceptual Evolution, is dedicated to women all over the world. We hope that individuals who suffer from breast cancer or breast disease or deformity can easily get current knowledge to overcome the misery and difficulties that they may encounter. The breast is an important structure of the human body in terms of function and aesthetics. Affected

individuals may experience concerns related to alterations in breast morphology, including changes in breast size, shape, volume, profile, and silhouette, as well as variations in the size, shape, and projection of the nipple-areolar complex.”. Simply aesthetic problems of breasts encompass hypoplasia, atrophy, displacement of the nipple-areolar complex, widened areola, redundant nipple, breast ptosis, macromastia, and so on. Nowadays, breast cancer in different stages may need different reconstruction modalities. Postmastectomy breast reconstruction is another big issue for plastic surgeons. This book will address the conceptual evolution of breast recontouring and reconstruction, along with individualized strategies for refining, restoring, and reconstruction approaches.

**images of diep flap reconstruction:** *Imaging for Reconstructive Microsurgery* Joon Pio Hong, Bernard T. Lee, Akitatsu Hayashi, Giuseppe Visconti, 2024-11-18 *Imaging in Reconstructive Microsurgery* represents the first book in its kind the the Plastic Surgery and Reconstructive Microsurgery Community. This books includes all the imaging modalities available for plastic and reconstructive surgeons which adds major steps in the daily clinical practice. Most of these imaging modalities can and should be used by the operating surgeon her/himself to exponentially enhance and empower the clinical practice. This book provides step-by-step description of all the state-of-art imaging modalities for both perforator flap and lymphatic surgery, with the aim to provide a daily reference to colleagues who are novel to these procedures and for those who are looking forward to improve their practice. Encorporating imaging technology in clinical practice represents a paradigm shift in daily clinical practice with major enhancement of safety, minimal invasiveness and creativity finally leading to a next generation reconstructive approach. We believe that those imaging modalities will guide us to the future of microsurgery and super- microsurgery. This book will be the beginning of reader’s new journey.

**images of diep flap reconstruction:** *Modern Breast Cancer Imaging* Su Jin Kim Hsieh, Elizabeth Anne Morris, 2021-10-31 The available information on breast cancer has evolved so rapidly that a textbook understanding is no longer sufficient to make sound therapeutic decisions. Further, the latest findings and data are spread throughout the scientific literature of various medical fields, making it difficult for medical professionals to keep abreast of these advances, and to apply them in their day-to-day work. This book provides updated information on breast cancer, such as the modern molecular classification and staging, and demonstrates how imaging with pathologic correlation can be used in management decisions. In addition, it identifies the most suitable imaging modalities for screening, diagnosis and monitoring for each clinical case. Given its scope, the book offers a valuable resource for all medical professionals (practicing or still in training) whose work involves breast cancer, including radiologists, breast surgeons, pathologists, radiotherapists and nuclear medicine professionals.

**images of diep flap reconstruction:** *Clinical Scenarios in Reconstructive Microsurgery* Andreas Gravvanis, Despoina D. Kakagia, Venkat Ramakrishnan, 2022-11-26 This book presents 100 cases covering all areas of reconstructive surgery. Divided into six parts (Head/Neck, Upper Extremity, Lower Extremity, Trunk, Breast and Lymphedema), it guides the reader through the difficult path of problem diagnosis, analysis and decision-making, presenting concrete steps and techniques for the successful management of patients with specific reconstructive needs. Each full-color case starts with a patient profile and continues with the diagnosis, key decisions, treatment plan, surgical procedure(s) and technical steps, postoperative management, outcome and case conclusion. Further, each case includes a discussion of pros and cons, comments, learning points and suggestions for further reading. This book will be useful for all surgeons actively involved or interested in Reconstructive Microsurgery and valuable for Senior Residents and Fellows in Plastic, Head and Neck, Breast Surgery and Orthopedics.

**images of diep flap reconstruction:** *ICG Fluorescence Imaging and Navigation Surgery* Mitsuo Kusano, Norihiro Kokudo, Masakazu Toi, Masaki Kaibori, 2016-03-11 This book presents a comprehensive overview and outlook for the future of indocyanine green (ICG) fluorescence navigation surgery, which is attracting clinical interest as a safe and less invasive procedure not only

in detecting cerebral vessels, coronary arteries, and biliary trees, but also in identifying sentinel lymph nodes in cancer. The book starts with the characteristics of ICG and photodynamic cameras/endoscopes, followed by detailed descriptions of the applications of ICG fluorescence imaging in various areas such as ocular surgery, neurosurgery, cardiovascular surgery, and plastic surgery. It also covers identifying sentinel lymph nodes in breast cancer as well as cancers of the gastrointestinal tract, and provides valuable information for hepato-biliary-pancreatic surgeons, such as identifying tattooing of liver segments and bile leakage. Written entirely by experts in their respective areas, ICG Fluorescence Imaging and Navigation Surgery offers an essential resource for surgeons operating on cancers and vascular disorders in the brain and cardiovascular systems and in plastic surgery.

**images of diep flap reconstruction: IRM en pratique clinique** Alain Luciani, Alain Rahmouni, 2017-09-26 L'accès des patients à l'expertise radiologique en IRM reste un enjeu majeur. Trop longtemps contraintes et limitées, les installations d'IRM sont en augmentation ces dernières années. En parallèle, les champs de la médecine évoluent : nombre de maladies précédemment connues comme des atteintes dites « d'organe » doivent désormais être prises en charge de manière beaucoup plus globale. Ainsi en est-il à titre d'exemple des cancers naturellement, mais également des maladies vasculaires, dont les conséquences neurologiques, cardiaques, ou viscérales doivent être appréhendées à l'échelle du corps entier. L'IRM doit désormais être envisagée comme un outil de prise en charge diagnostique complet, désormais incontournable dans un nombre toujours croissant de situations cliniques. Le besoin de formation des radiologues à l'IRM, dans cet esprit, est et reste donc fort. Réunir toutes les connaissances de la discipline sous forme d'un ouvrage accessible était donc un défi. Ce défi a été relevé avec succès par ce traité, exceptionnel à tous points de vue. - Premier traité de référence sur le sujet en langue française, il réunit l'expertise d'enseignants et enseignants chercheurs de référence de la radiologie. -Il intègre à la fois une approche technologique et radio-clinique, la technologie, rédigée de manière pratique étant au cœur de l'innovation et de l'optimisation des prises en charge diagnostiques. Une partie est consacrée au choix technologique de l'appareil (critères, grands principes, séquences, contrôle qualité). - Il s'articule selon les grandes régions anatomiques (os, pelvis, etc.) du corps entier. Dans chaque partie, l'organisation se décline par pathologie. - Le principe d'importance des pathologies est adopté : les pathologies fréquentes et graves sont les plus détaillées, à l'image des sections consacrées aux principaux cancers. - Les chapitres sont enrichis des avancées des autres disciplines : anatomopathologistes, médecins nucléaires, cliniciens. « En pratique clinique » signifie « bien comprendre les aspects techniques pour adapter les séquences IRM au patient, à sa pathologie et exploiter au mieux les possibilités offertes par l'IRM » : une radiologie personnalisée de haute technicité et au service de tous les patients. Le radiologue trouve, dans ce traité très complet et richement illustré, l'ensemble des connaissances dont il a besoin au quotidien, pour améliorer sa pratique. Il s'agit aussi d'une réflexion sur l'importance des plateaux techniques de haute technicité, pour que l'innovation profite à tous.

**images of diep flap reconstruction: *Artificial Intelligence and Imaging for Diagnostic and Treatment Challenges in Breast Care*** Tianyu Zhang, Oliver Lester Saldanha, Luyi Han, Nika Rasoolzadeh, Lidia Garrucho Moras, Jarek van Dijk, Tao Tan, Jakob Nikolas Kather, Ritse Mann, 2025-09-25 This book constitutes the refereed proceedings of the Second Deep Breast Workshop on Artificial Intelligence and Imaging for Diagnostic and Treatment Challenges in Breast Care, Deep-Breath 2025, held in conjunction with the 27th International Conference on Medical Imaging and Computer-Assisted Intervention, MICCAI 2025, in Daejeon, South Korea, on September 23, 2025. The 35 regular papers presented in this book were carefully reviewed and selected from 62 submissions. The Deep-Breath workshop provides an international platform for the presentation of - and discussion on - studies related to artificial intelligence in breast imaging. By fostering collaboration between clinicians and AI experts, the workshop promotes the development and responsible application of AI technologies across the breast cancer care continuum. Deep-Breath aims to create a unique forum where technical advances and clinical insights converge, driving

innovation that ultimately leads to real-world impact for both physicians and patients.

**images of diep flap reconstruction:** *Breast Reconstruction* Marzia Salgarello, 2012-02-03 Breast reconstruction is a fascinating and complex field which combines reconstructive and aesthetic principles in the search for the best results possible. The goal of breast reconstruction is to restore the appearance of the breast and to improve a woman's psychological health after cancer treatment. Successful breast reconstruction requires a clear understanding of reconstructive operative techniques and a thorough knowledge of breast aesthetic principles. Edited by Marzia Salgarello, and including contributions from respected reconstructive breast plastic surgeons from around the world, this book focuses on the main current techniques in breast reconstruction and also gives some insight into specific topics. The text consists of five sections, of which the first focuses on the oncologic aspect of breast reconstruction. Section two covers prosthetic breast reconstruction, section three is dedicated to autogenous breast reconstruction, and section four analyzes breast reconstruction with a fat graft. Finally, section five covers the current approaches to breast reshaping after conservative treatment.

**images of diep flap reconstruction: 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](http://www.expertconsult.com)!

**images of diep flap reconstruction:** *9th European Medical and Biological Engineering Conference* Tomaž Jarm, Rok Šmerc, Samo Mahnič-Kalamiza, 2024-05-31 This book informs on new trends, challenges, and solutions, in the multidisciplinary field of biomedical engineering. It covers traditional topics in biomechanics and biomedical signal processing, as well as recent trends relating to the applications of artificial intelligence and machine learning methods in medicine and biology, and to bioengineering education. Gathering the second volume of the proceedings of the 9th European Medical and Biological Engineering Conference (EMBEC 2024), held on June 9-13, 2024, in Portorož, Slovenia, this book bridges fundamental and clinically-oriented research, emphasizing the role of translational research in biomedical engineering. It aims at inspiring and fostering communication and collaboration between engineers, physicists, biologists, physicians and other professionals dealing with cutting-edge themes in and advanced technologies serving the broad field of biology and healthcare.

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