

INDEX

VOLUME I

GENERAL CUTANEOUS SURGERY

CHAPTER 1

THE DERMATOSURGICAL PATIENT

(G. Agostinacchio)	3
Introduction	3
Preparation of a Dermatologic Surgical Procedure.....	3
Patient History.....	4
Preparation of a Healthy Patient for Surgical Procedures	5
References	10

CHAPTER 2

INFORMED CONSENT IN CUTANEOUS SURGERY

(D.J. Goldberg)	11
New York § 2805-d.	15
Iowa 147.37 Consent in Writing	15
Nebraska § 44-281	16
New Jersey title 8, §43G-4.1 Patient rights.....	16
Connecticut §19-13 D3	16

CHAPTER 3

CUTANEOUS SURGERY IN OUTPATIENT AND OPERATING ROOM SETTINGS

(M. Simonacci, M. Sigona, A. Bettacchi, R. Gasco).....	19
The Dermatological Outpatient Surgery Unit	20
The Operating Room	21
References	23

CHAPTER 4

SURGICAL INSTRUMENTS

(G. Guerriero)	25
Scalpels	25
Scissors	26
Needle Holders	26
Forceps	27
Hemostats	27
Curettes	28
Retractors	28
Towel Clamps	28
Containers and Forceps for Preparing the Operative Field	28
Electrocoagulator	28
Dermabrader	29
Liposuction Apparatus.....	29
Miscellaneous Equipment and Supplies	29
Conclusions	29

CHAPTER 5

STERILIZATION AND DISINFECTION OF SURGICAL INSTRUMENTS

(M. Dal Canton)	31
Introduction	31

CHAPTER 28

MALIGNANT MELANOMA

(M.I. Perez, T.C. Yu)	391
References	395
xviii	

CHAPTER 29

THE SENTINEL LYMPH NODE

CONTENTS

Diagnosis of Pigmented Skin Lesions.....	426
Differentiation Between Melanocytic (G. Landi, M. Polverelli, C. Landi)	397
Introduction	397
The Orderly Lymphatic Progression of Melanoma.....	398
Morton's Experience	400
Preoperative Lymphoscintigraphy	401
Intraoperative Gamma Probe	404
Surgical Technique	406
Histopathologic Investigation	408
Regional Complete Nodal Dissection	410
New Strategies	411
Sentinel Node Biopsy in Other Tumors	412
Personal Results	412
Complications	414
Limits of the Procedure and Controversies	414
References	416

CHAPTER 30

EPILUMINESCENCE MICROSCOPY

(R. Pellicano, M. Lomuto).....	419
Introduction	419
Historical Overview	419
Observation Techniques	420
Dermoscopic Criteria	420
Pigment Network (Typical Atypical)	421
Streaks (Regular Irregular)	421
Dots/Globules (Regular Irregular)	422
Blue-Whitish Veil	423
Regression Structures (White Areas/Blue Areas)	423
Hypopigmented Areas (Focal Multi-Focal Diffuse).....	423
Blotches (Localised Diffuse Regular Irregular).....	423
Multiple Milia-Like Cysts	424
Comedo-Like Openings	
Leaf-Like Areas	424
Red-Blue Lacunas	424
Vascular Pattern.....	424
and Non-Melanocytic Lesions	426
Differentiation Between Melanocytic lesions and melanoma	427
Conclusions	431
References	432

CHAPTER 31

MALIGNANT TUMORS OF THE DERMIS AND SUBCUTANEOUS TISSUE

(P.G. Lang, Jr.)	435
Merkel Cell Carcinoma	435
Malignant Granular Cell Tumor	437
Pilomatrix Carcinoma	438

Definitions	31	Sebaceous Gland Carcinoma.....	438
Decontamination	31	Sarcomas	440
Cleaning	32	Dermatofibrosarcoma Protuberans	440
Disinfection	32	Atypical Fibroxanthoma	442
Sterilization	32	Malignant Fibrous Histiocytoma.....	443
Antisepsis	33	Leiomyosarcoma	444
Decontamination	33	Angiosarcoma	446
Cleaning	34	Epitelioid Sarcoma	448
Sterilization	35	Fibrosarcoma	449
General Concepts	35	Liposarcoma	450
CONTENTS xiii		Cutaneous Rhabdomyosarcoma	450
		Malignant Peripheral Nerve Sheath Tumor	450
Heat Sterilization.....	37	Sweat Gland Carcinomas	450
Dry Sterilization	37	Aggressive Digital Papillary Adenoma ..	451
Steam Sterilization	38	Signet Ring Carcinoma	451
Gas Sterilization	42	Malignant Eccrine Spiradenoma and Malignant Cylindroma	451
Chemical Disinfection.....	44	Mucinous Carcinoma	452
Glutaraldehyde	45	Malignant Mixed Tumor	452
Ortho-Phtalaldehyde	46	Malignant Clear Cell Hidradenoma	452
Peracetic Acid	46	Porocarcinoma.....	453
TAED (Tetra-Acetyl Ethylen-Diammine) 47		Primary Cutaneous Adenoid Cystic Carcinoma	454
Instrument Care	48	Apocrine Carcinoma	454
Inspection and Care	48	Microcystic Adnexal Carcinoma	455
Lubrication	48	References	457
Packaging of Surgical Instruments	49	CONTENTS xix	
Loading the Steam Autoclave	50		
Testing and Validation of the Sterilization Process.....	52		
Physical Monitors	52		
Chemical Monitors	53		
Biologic Indicators	54		
Issues on Dermatologic Surgery Instruments 55			
Electrosurgical Units	55		
Dermabrasion Equipment	55		
Hair Transplant Equipment	56		
Current Issues in Disinfection and Sterilization of Surgical Instruments ..	56		
References	57		
CHAPTER 6		<u>VOLUME II</u>	
LOCAL ANESTHETIC TECHNIQUES		SPECIAL CUTANEOUS SURGERY	
(R. Bono, G. Rossi)	61		
Introduction	61	CHAPTER 32	
The Physiology of Pain Perception	61	CURETTAGE AND ELECTRODESICCATION	
Drugs Used to Produce Local and Regional Anesthesia	62	(Arash Kimyai-Asadi, Ming H. Jih)	473
The Mechanism of Action of Local Anesthetics	62	Introduction	473
The Chemical Structure of Local Anesthetics	62	Procedure.....	473
Vasoconstrictors	63	Efficacy	474
Adverse Effects of Local and Regional Anesthesia	64	Indications and Contraindications	475
Local Adverse Effects	64p	Conclusions	475
Systemic Adverse Effects	64	References	476
Drug Interactions.....	66		
Pregnancy	67	CHAPTER 33	
Preventing and Managing Side Effects ..	67	CRYOSURGERY	
Pre-Anesthetic Evaluation of Patients.....	68	(P. Mintzias)	477
Anesthetic Techniques.....	69	Historical Background	477
Local Anesthesia	69	Cryobiology.....	477
Regional Anesthesia (Peripheral Nerve Block)	69	Vascular changes	479
Sedation	70	Cryoimmunology	479
Setting Equipment and Assistance	71	Equipment - Techniques of treatment	479
Patient Evaluation	71	Dipstick Technique	480
Drugs used.....	71	Cryoprobe Technique	481
References	72	Spray Technique	482
		Intralesional Technique (Weshahy's Technique)	483
CHAPTER 7		Freezing Parameters	483
		Monitoring Method	484
HAEMOSTASIS		Use of Thermocouple Measurements	484
(N. Frasca)	73	Impedance-Resistance Methods	485
		Indications and Contraindications	485
		Cryosurgery in Benign Skin Tumours.....	486
		Seborrhoeic Warts	486
		Haemangiomas	487
		Keloids and Hypertrophic scars	487
		Pyogenic Granuloma	487
		Warts	488
		Cryosurgery in Skin Precancerous Lesions	490

Physical Agents	73	Actinic Keratosis	490
Physiologic Agents	73	Bowen's Disease	490
Topical-Chemical Agents	74	Queyrat's Erythroplasia	491
Thermal Devices	74	Leucoplakia	491
References	74	Lentigo Maligna	492
		Keratoacanthoma.....	492
CHAPTER 8		Cryosurgery in Skin Cancer	492
SUTURING TECHNIQUES AND MATERIALS		Basal Cell Carcinoma (BCC)	493
(A. Cimitan).....	75	Squamous Cell Carcinoma (SCC).....	497
Suturing Materials	75	Malignant melanoma.....	498
Threads	75	Complications of Cryosurgery	499
Staples	77	Perspectives – Conclusion.....	499
Wound Closure Adhesive Tapes	78	References	500
Surgical Needles	78		
Suturing Techniques	78	CHAPTER 34	
Most Common Suturing Techniques	79	ELECTROSURGERY	
Special Sutures	82	(E. Sbano, P. Sbano)	505
References	84	History	505
		Basic Principles	506
CHAPTER 9		Electrical Circuits	506
TOPOGRAPHICAL ANATOMY AND CUTANEOUS		Waveforms.....	506
SURGERY		Electrodes	506
(G. Leigheb, P. Boggio, G. Cristiani)	85	Devices	508
The Fronto-Occipital Region	85	Techniques.....	508
The Temporal Region	86	Clinical Applications	509
The Auriculo-Mastoid Region.....	87	Hazards	514
The Orbital Region	88	Comparison of Electrosurgery with other	
The Eyelids	88	Surgical Methods.....	516
The Lacrimal Apparatus	88	References	517
Vessels and Nerves	89		
The Nasal Region	91	CHAPTER 35	
Nasal Support System	91	DERMABRASION	
Superficial Structures	91	(J.M. Yarborough, C.B. Harmon)	519
The Superficial Plains	91	Introduction	519
Vessels and Nerves	93	Indications	519
The Lips	93	Preoperative Consultation and	
The Cheeks	94	Examination	520
The Hand	94	Preoperative Medications and Laboratory	
The Volar Surface of the Hand	94	Evaluation	520
The Dorsal Surface of the Hand	95	Surgical Technique	521
The Fingers	95	Postoperative Wound Care	523
References	96	Complications	524
xiv		References	525
CHAPTER 10			
CUTANEOUS BIOPSY		CHAPTER 36	
CONTENTS		TISSUE EXPANDERS	
Clinical Examples	117	(I. Zilinsky, Y. Har-Shai, G. Weiss)	527
References	120	Microstructure of the Human Skin	527
(G. Guerriero)	97	Terminology	527
Preparing the Patient	97	Bio-Mechanical Properties of Skin	528
Planning the Biopsy	97	Historical Precedence of Stretching Skin ..	530
Disinfection and Anesthesia	98	Histological Changes	531
Instruments	98	Epidermis	531
Biopsy Techniques	99	Dermis	531
Incisional and Excisional Biopsies	99	Adnexa	532
Shave Biopsy.....	99	Subcutaneous Fat.....	532
Punch Biopsy.....	99	Muscle	532
Fine-Needle Biopsy.....	100	Vascularity	532
Nail Biopsy	100	Capsule	532
Biopsy of the Oral Cavity	100	Long-term Histopathological Results	533
Complications	101	Linear Tissue Expansion	533
References	101	Types of Linear Skin-Stretching Devices	534
		The sure-closure® skin-stretching system	
CHAPTER 11		xx CONTENTS	
CUTANEOUS FLAPS		(SSD) (Zimmer)	534
I - Advancement Flaps	103	The Suture Tension Adjustment Reel	

(J. Ocaña Sierra, M.L. Wilhelmi)	103	(STAR)	536
Basic Techniques	103	The External Tissue Extender (ETE® – Höjmed AB Sweden)	536
Rectangular Advancement Flap	104	The Frechet Scalp Extender	536
Triangular Advancement Flap	104	The Constant-Tension Approximator (Proxiderm – Progressive Surgical Products Westbury New York)	536
Trapezoidal Advancement Flap	104	Spherical Tissue Expansion.....	539
VY or YV Advancement Flaps	107	Clinical Applications of Spherical Devices	539
A-T Flap	107	Breast Reconstruction with a Spherical Expander.....	540
Double Crescent Perialar Excision	107	Giant Congenital Nevi.....	541
Bipedicle Double Flap.....	108	Complications	542
Crescentic Advancement Flap	108	References	543
Special Techniques	110		
Advancement Flaps of Supraauricular Region	110	CHAPTER 37	
Advancement Flaps of Eyelids	110	SCAR REVISION	
Advancement Flaps of the Nose	110	(A. Tulli, A. Diociaiuti)	547
Advancement Flaps of Lips.....	110	Introduction	547
Advancement Flaps of the Cheek and Chin	110	Indications	547
References	113	Types of Scars	548
		Hypertrophic Scars	548
II - Rotation Flaps	114	Keloids	548
(P. Robins, C.H. Schmults)	114	Depressed Scars.....	548
Classic Rotation Flap	114	Widened Scars	548
Variations of the Rotation Flap	115	Long Linear Scars	548
Hatchet Flap	115	Pitted Scars	548
Double Rotation Flaps.....	116	Trapdoored Scars.....	548
Techniques to Avoid Common Errors	117	Contracted Scars and Webbed Scars	549
Raise the Leading Edge.....	117	Distortion of Free Margins	549
Widen the Tip of the Flap	117	Red Scars.....	549
Pay Attention to Cosmetic Units and Skin Tension Lines	117	Surgical Technique	549
Consider the Effect of Secondary Motion	117	Fusiform Excision	549
		Skin Flaps	549
		Dermal Micrografts	550
III - Transposition Flaps	121	Autologous Grafts	551
(A. Rusciani, G. Guerriero, A. Paradisi)	121	Dermaabrasive Scar Revision	551
Rhombic Flap	122	Laser Scar Revision.....	552
Classic Limberg Rhombic Flap	122	Non-Surgical Scar Revision	552
Dufourmentel Flap	123	Corticosteroids	552
Webster Flap	123	Pressure	552
Rhombic Flap on a Circular Defect.....	124	Radiation Therapy	552
Nasolabial Flap	126	Cryotherapy	552
Bilobed Flap	128	Medical Therapy	552
Z-Plasty	130	References	553
Complications	130		
References	131		
		CHAPTER 38	
CHAPTER 12		TREATMENT OF VARICOSE VEINS	
CUTANEOUS GRAFTS		(S. T' Kint, D. Roseeuw)	555
(A. Picoto)	133	Introduction	555
Introduction	133	Anatomy	555
Types of Skin Grafts	133	Venous Pathology	556
Autografts	134	Negative Factors	556
Cutting the Split-Thickness Skin Graft ..	135	Positive Factors	556
Cutting the Full-Thickness Skin Graft ..	135	Clinical Features	556
Donor Areas.....	135	The Schwartz Test (Wave Test)	557
Cutting the Graft	136	Cough Test.....	557
Mesh Grafts	138	Trendelenburg test	557
References	138	Perthes Test	558
		Pratt Test	558
		Linton Test.....	558
		Duplex Ultrasonography	558
		Ankle-Arm Index	558
		Venography	558
		Air Pletysmography.....	559
		Treatment	559
		Drugs	559
		Mechanical therapy	559
		Sclerotherapy.....	560
		Ambulatory Phlebectomy	561
		References	564
CHAPTER 13			
WOUNDS: CLASSIFICATION AND SURGERY			
(R. Baiocchi, M. Serrai, G. Maccanti)	139		
Introduction	139		
Trophic Ulcers of the Lower Limbs	140		
Venous Ulcers	140		
Arterial Ulcers	141		
Ulcers Due to Vasculitis	142		
Infection-Based Ulcerations	142		
Gangrene	145		
Pressure Sores	146		
Preparation for Surgery	147		
Operative Technique	148		

Review of Operative Techniques 148	
Treatment of Multiple Pressure Sores 153	
Conclusion..... 153	
Diabetic Foot 155	
Surgical Treatment 156	
Conclusion..... 158	
Traumatic Wounds..... 161	
Contusion 162	
CONTENTS xv	
Excoriations..... 162	
Lacerated and Contused Wounds 162	
Flap Wounds 162	
Defect Wounds 162	
Pilonidal Sinus 166	
Considerations and Conclusions 166	
References 167	
CHAPTER 14	
SURGICAL WOUND DRESSING	
(L.M. Chinni, M.T. Viviano, M. Papi) 171	
Introduction 171	
Types of Cutaneous Wounds 171	
Physiology of Wound Healing 172	
Phases of Wound Healing 172	
What is the Ideal Characteristic of a Wound Dressing? 172	
Occlusive and Semi-Occlusive Dressing .. 173	
Polymer Films 174	
Polymer Foams 174	
Hydrocolloids 174	
Hydrogels 175	
Alginates 175	
Miscellaneous 176	
Adhesive Tapes and Bandages 176	
Tactifiers 176	
References 176	
CHAPTER 15	
SURGICAL COMPLICATIONS	
(K. Nouri, H. Chen, V. Vejjabhinanta, A.R. Patel) 179	
Introduction 179	
Intra-Operative 179	
Bleeding 179	
Damage to Nerves or Surrounding Vital Organs 180	
Anesthetic Side Effects/Drug Interactions 181	
Electrocautery Associated Complications 181	
Post-Operative 181	
Contact Dermatitis..... 181	
Infection 182	
Chondritis 182	
Wound Dehiscence 183	
Necrosis of the Skin 183	
Suture Spitting..... 183	
Suture Tracking 183	
Excessive Granulation Tissue 184	
Non-Healing Wounds 184	
Pigment Change 184	
Scars/Hypertrophic Scarring/Keloids 184	
Conclusion..... 184	
References 185	
CHAPTER 16	
PHOTOGRAPHIC DOCUMENTATION IN DERMATOLOGY	
(E. Vigil, Pf. Zampieri) 187	
Introduction 187	
Rules for Correct Documentation 188	
Try to Show Only the Clinical Sign 188	
Pay attention to the Background 190	
CHAPTER 39	
SCLEROTHERAPY	
(S. Rapprich, E. Hasche, M. Hagedorn) 565	
Introduction 565	
Varicosis 565	
Definition of Varicosis..... 565	
Epidemiology 565	
Etiology 565	
Pathophysiology of Varicosis 566	
Clinical investigation and machine diagnostics 566	
Phlebologic Anamnesis 566	
Clinical Picture 567	
Phlebological Investigation 568	
Chronic Venous Insufficiency (CVI) 571	
Skin Changes with CVI..... 572	
Therapy of Varicosis 577	
History of Sclerotherapy 578	
Indications of Sclerotherapy 579	
Therapeutic Basics 580	
Sclerosing Agent 580	
Pathophysiology of Sclerotherapy 581	
Practical Execution 582	
Puncture and Air-Block Technique 582	
Tournay Sclerosing Method 582	
Injection..... 583	
Sigg Sclerosing Method 583	
Sclerosing Intradermal Varicose Veins .. 584	
Therapeutic Procedure..... 585	
Supplementary Measures 585	
CONTENTS xxi	
Contraindications 586	
Complications 586	
Topical Complications..... 586	
Systemic Reactions 589	
Follow-up Visits 590	
References 590	
CHAPTER 40	
LASERS AND POLYCHROMATIC LIGHT SOURCES (PCLS) IN DERMATOLOGY	
(L. Marini)..... 591	
Light-Tissue Interaction 591	
Light-Sources 593	
Lasers 593	
PCLS (Polychromatic Light Sources) 594	
Dosimetry 595	
Cooling Systems 595	
Surgical Lasers 598	
Vascular Targets - Vascular Specific Lasers and IPLS 601	
Pigmented Targets: Pigment-Specific Lasers and IPLS 606	
Non-Ablative Collagen Remodeling and Skin Rejuvenation 609	
Conclusion..... 611	
References 611	
CHAPTER 41	
THE CARBON DIOXIDE LASER	
(M.A. Trelles, R.G. Calderhead) 615	
History and Photobiosurgical Basics..... 615	
Photothermal Bioreactions 615	

Choose the Right Detail 192	Irradiance (Power Density) – The Surgical Key 618
When Taking a Photograph Consider the Angle Carefully 194	Radiant Flux (Energy Density) – the Laser “Dose” 620
Using the Correct Lighting 194	Beam Mode 621
Keep the Slides Clean 199	Beam Type..... 621
Do Not Make Inappropriate Use of Other People’s Documentation..... 200	Beam Transmission 623
Do Not “Modify” Therapeutic Results Obtained 200	Illustrative Examples..... 624
Pay Careful Attention to the Order of the Caption and the Written Text 200	Incision 624
Do Not Present An Excessive Number of Slides 201	Excision 624
Respect the Privacy Data Protection Law! 201	Vaporization 625
References 202	Coagulation 626
	Vaporization and Coagulation Combined 626
	Variations on a Theme (CO2 ‘Pinhole’ Treatment) 626
	CO2 Laser-Assisted Blepharoplasty 628
	CO2 Laser: Quo Vadis? 629
	CHAPTER 42
REGIONAL DERMATOLOGIC SURGERY	LASER SAFETY WITH THE CO2 LASER (M.A. Trelles, R.G. Calderhead) 631
CHAPTER 17	CO2 Laser-Related Hazards..... 631
SURGERY OF THE EYELID REGION (F. Camacho-Martínez) 205	Electrical Hazards 631
Introduction 205	Skin or Other Tissue Hazards 632
General Considerations 206	Carelessness 632
Anatomic Considerations 206	Misalignment of the Aiming Beam 632
Lacrimal Apparatus 206	Accidental Irradiation from Beam Reflection 632
Functional Considerations..... 207	Tissue Protection for the CO2 Laser 632
Surgical Considerations..... 207	Optical Hazards 633
Tarsorrhaphy 207	Fire Hazards 634
Surgical Techniques 208	Laser Plume Hazard 634
Defects on the Lower Lids 208	Side Effects 634
Small Defects 208	Common Sense and Hazard Prevention 635
Medium-Sized Defects 208	
Complete Loss of the Lower Eyelid 213	
Defects on the Upper Lids..... 217	CHAPTER 43
Small Defects 217	LASER THERAPY IN VASCULAR LESIONS (J.M. Fernández Vozmediano, J.C. Armario Hita) 637
Complete Loss of the Upper Lid 220	Introduction 637
Skin Defects 221	Treatment of Vascular Lesions 638
Defects on the Lateral Canthus 224	Telangiectasias 638
Defects Only on the Lateral Canthus 224	Hemangiomas 639
Defects on the Lateral Canthus and Small Defects of Whole Thickness on Both Lids 225	Vascular Malformations 642
Defects on the Lateral Canthus and Small or Medium-Sized Cutaneous Defects on Both Lids 225	Laser Therapy in Vascular Lesions 642
Defects on the Inner Canthus 226	Continuous-Wave Systems 643
xvi	Argon Laser 643
	Argon-Pumped Tunable Dye Laser (APTDL) 645
Defects on the Inner Canthus and Small Defects of Whole Thickness on	Potassium Titanyl Phosphate 532 Nanometer Laser (KPT Laser) 645
	Copper Vapor Laser..... 646
	Krypton Laser 646
	Copper Bromide Laser 646
	Pulsed-Wave systems 647
CONTENTS	Action on Tissues 647
CHAPTER 20	Method of Application 647
SURGERY OF THE LIPS AND THE	Contraindications 648
Both Lids 226	Complications 648
Defects on the Inner Canthus and Small or Medium-Sized Cutaneous Defects on Both Lids 227	Indications 649
References 230	Telangiectasias 649
	Vascular Malformations 651
	Hemangiomas 653
CHAPTER 18	Other Vascular Lesions 654
AESTHETIC BLEPHAROPLASTY (J. Carruthers, A. Carruthers) 233	Other Laser Systems Used in Vascular Lesions 654
The Presurgical Evaluation 233	Nd:YAG laser 654
History of Any Previous Peri-Ocular Treatments 233	CO2 laser 655
	Treatment of Telangiectasias of the Legs 656
	Sclerotherapy..... 656
	xxii
	CONTENTS
	Laser Therapy of Leg Veins 657

Evaluation of Subject's Preoperative Expectations	234	Dye Laser Systems	657
Necessary Documentation to Achieve Surgical Goals	234	Nd:YAG Systems	658
Cosmetic Upper Eyelid Blepharoplasty	237	Long-Pulsed Alexandrite Laser.....	659
Cosmetic Lower Eyelid Blepharoplasty	238	Diode Laser	659
Traditional Infralash Blepharoplasty	238	Systems of Non-Coherent Light	659
Lateral Canthopexy	238	References	660
Skin Redraping	238		
Transconjunctival Lower Eyelid Blepharoplasty	238	CHAPTER 44	
Transconjunctival Blepharoplasty with Anterior Fat Transposition: the Newest Lower Eyelid Rejuvenative Procedure	239	ERBIUM LASERS	
Blepharoplasty Plus Resurfacing	239	(M.G. Onesti)	665
Keratoconjunctivitis Sicca	240	Characteristics	665
Complications and their Management....	240	Applications	666
Complications Related to the Use of the CO2 Laser for Aesthetic Blepharoplasty	241	Erbium Laser and Resurfacing	666
Postoperative Care Regime	241	References	667
Ice Positioning and Wound Care	241		
Summary	242	CHAPTER 45	
References	242	HISTORY OF MOHS MICROGRAPHIC SURGERY	
		(C.W. Hanke, A.L. Leonard)	669
CHAPTER 19		The Early Years: the Fixed-Tissue Technique	669
NASAL PYRAMID SURGERY		Modern Mohs Micrographic Surgery: the Fresh-Tissue Technnique	671
(C. Alfano, A. Rusciani, S. Chiummariello, C. Pagliarello).....	243	Early Pioneers in Mohs Surgery	671
Introduction	243	Modern Mohs Micrographic Surgery: Expanding Horizons	673
General Principles	243	The Legacy of Frederic Mohs	674
Reconstruction of the upper Part of the Nose (Dorsum and Lateral Faces)	244	References	674
Reconstruction of the Lower Nose	245		
Axial Flaps	247	CHAPTER 46	
Technical Tips	248	MOHS MICROGRAPHIC SURGERY: A TREATMENT OF FIRST CHOICE FOR DIFFICULT SKIN CANCERS	
References	249	(N.W.J. Kelleners-Smeets, H.A.M. Neumann) 677	
ORAL CAVITY		Introduction	677
(W.A. Pagani)	251	History	678
General Considerations	251	Method	679
I- Anatomy and Physiology.....	251	Indications for Mohs Micrographic Surgery	682
The Lips and Oral Cavity	251	Basal Cell Carcinoma	682
Muscles	251	Squamous Cell Carcinoma	684
Innervation and Blood Circulation of the Lips.....	252	Discussion	684
Regional Lymphatic System	252	Conclusion.....	688
II- Cancer Ablative Surgery	252	References	688
Reconstructive Surgery	254	COSMETIC SURGERY	
Lips: Superficial Defect Repair	254	CHAPTER 47	
Lips: Full-Thickness Defect Repair	255	CUTANEOUS AGING: ALTERED SKIN TROPHISM AND WRINKLES	
Corner of the Mouth Reconstruction.....	257	(M.T. Leccia, X. Martinet).....	693
Vermilion Border Restoration and Principles of Oral Mucosa Surgery	258	Intrinsic Aging and Photoaging: Clinical and Functional Aspects	693
Acknowledgments	265	Intrinsic Aging and Photoaging: Histologic Features	694
References	265	Intrinsic Aging.....	694
		Photoaging.....	695
CHAPTER 21		Pathogenesis of Photoaging: Current Concepts	696
SURGERY OF THE AURICULAR REGION		Prevention of Cutaneous Aging	697
(H. Breuninger)	267	References	700
Introduction	267		
Ensuring Tumor-free Three Dimensional Incision Margins (3D-Histology)	267	CHAPTER 48	
Indications	269		
Pre-Therapeutic Diagnostics	270		
Anesthesia	270		
Planning the Operation	271		
Operation	271		
Suture Techniques	275		

Aftercare	275	CHEMICAL PEEL: CLASSIFICATION, INDICATIONS (A.D. Katsambas, E. Nicolaidou)	703
References	275	Classifications of Peeling Agents	703
CHAPTER 22		Indications of Chemical Peels	705
SURGERY OF THE EXTREMITIES		Facial Skin Peels	706
(S. Serrano-Ortega)	277	Glycolic Acid Peels	706
Upper Extremities	278	TCA Peels	707
Axillae	278	Pesorcinol Peels.....	708
Arms and Forearms	280	Phenol Peels	708
Hands.....	280	Salicylic Acid Peels	709
Lower Extremities	283	Non-Facial Skin Peels	709
Inguino-Crural Region	283	References	710
Thighs	283		
Leg.....	285	CHAPTER 49	
Feet	289	CHEMICAL PEELS	
References	291	(Ming H. Jih, Arash Kimyai-Asadi)	711
		Introduction	711
		Procedure.....	712
		Complications	713
		References	713
CHAPTER 23			
NAIL SURGERY		CHAPTER 50	
CONTENTS xvii		CHEMICAL PEELING WITH TCA	
CHAPTER 26		(A. Camps-Fresneda, G.A. Moreno-Arias)	715
SQUAMOUS CELL CARCINOMA		Introduction	715
(E. Haneke)	293	Chemical Characteristics of TCA	715
Surgical Anatomy and Physiology of the		TCA Formulation	715
Nail	293	What Concentration?.....	715
Preoperative Examination and Preparation		Clinical and Histological Aspects	716
for Surgery.....	295	CONTENTS xxiii	
Anaesthesia and Instrumentation	296		
Nail Avulsion and Biopsies	297	Indications and Contraindications	717
Characteristic Nail Lesions	299	Skin Preparation	718
Surgery of Benign Tumours	304	The Day of the Peeling	718
Longitudinal Melanonychia	305	Written Informed Consent & Photographs ..	719
Surgery of Malignant Tumours	306	Anesthesia and Sedation	719
Traumatic Lesions	308	Materials	719
Grafts and Flaps	308	Technique	719
References	309	Postoperative Care	722
		Side Effects and Complications	722
		Re-Peeling	723
		Non-Facial Areas.....	723
		TCA Combined with Other Agents	725
		Conclusion.....	726
		Acknowledgments	726
		References	726
SURGERY OF CUTANEOUS CANCERS			
CHAPTER 24		CHAPTER 51	
BENIGN EPITHELIAL CANCERS		GLYCOLIC ACID: INDICATIONS AND APPLICATION	
(G. Zumiani, L. Castellani)	315	(G. Vezzoni, G.M. Vezzoni)	727
Neoplasms of Viral Origin	315	How Superficial Peeling with Glycolic	
Common Warts	316	Acid Works	727
Flat Warts	317	History	728
Condylomata Acuminata	317	What Peeling Does	728
Molluscum Contagiosum	318	What Peeling Does Not Do	728
Fibroepithelial Polyps	319	Carrying Out Superficial Peeling with	
Seborrheic Keratosis	319	Glycolic Acid.....	729
Dermatosis Papulosa Nigra	320	Preparing the Patient	729
Stucco Keratosis	320	Technique for Peeling the Face with 70% Glycolic Acid	729
Clear-Cell Acanthoma	321	Summary	731
Keratoacanthoma.....	321	References	731
Comedone (Blackhead)	322		
Verrucous Epidermal Naevus	322	CHAPTER 52	
Actinic Keratoses	323	DEEP CHEMICAL PEELING	
Becker's Naevus	324		
Adnexal Neoplasm	325		
References	334		
CHAPTER 25			

SURGICAL MANAGEMENT OF BASAL CELL CARCINOMAS (J.F. Sei) 335	(G.D. Monheit) 733
Tumor Size 337	The Peel..... 737
Location..... 338	References 740
Histologic Type 338	
Primary or Recurrent Tumor 340	CHAPTER 53
Severity score 341	DERMOFILLERS: COLLAGEN, HYALURONIC ACID, SILICONE, METHACRYLATE ETC (D. Dasiou-Plakida) 741
Results of Treatment 344	Introduction 741
Conclusion..... 344	Fluid Silicone 741
References 344	Fluid Medical Grade Silicone 741
(J. Hafner, M. Hess Schmid, S. Läubli, L. Schärer, G. Burg) 347	Tissue Histological and Immuno- Histological Reaction 743
Treatment Modalities and Prognosis of Squamous Cell Carcinoma of the Skin 347	Injection Techniques 744
Precursors of Squamous Cell Carcinoma .. 351	Methodology 745
Specific Variants of Low-Grade Squamous Cell Carcinoma..... 355	Indications 746
Surgical Repair According to the Anatomical Regions of the Head 357	Adverse Reactions..... 746
Nose..... 358	Animal Collagen Implants (Zyderm I Zyderm II Zyplast) 747
Flaps and Grafts of the Nose 358	Skin Test 747
Ear 363	Injection Techniques 748
Flaps and Grafts of the Ear 363	Scars 748
Lips 364	Nasolabial Furrows and Wrinkles 749
Flaps and Grafts of the Lips 364	Glabellar Wrinkles..... 749
Cheek..... 366	Perioral Vertical Lines 749
Flaps and Grafts of the Cheek 367	Horizontal Forehead Wrinkles 749
Forehead 369	Periorbital Wrinkles..... 749
Flaps and Grafts of the Forehead 369	Lip Augmentation 749
Scalp 371	Results and Duration of Correction..... 750
Flaps and Grafts of the Scalp 371	Adverse reactions 750
References 373	Fibrel 750
	Artecoll 751
CHAPTER 27	Resoplast 753
PIGMENTED LESIONS	Kokken Atelogen..... 753
(J.S. Conejo-Mir, A. Serrano, L. Rodriguez-Freire, C. Hernandez) 377	Injectable Human Tissue Matrix- Dermalogen 753
Solar Lentigo 377	Isolagen 754
Treatment..... 377	Autologen 754
Becker's nevus 378	e-Ptee (Soft Form) 755
Clinical manifestation 378	Gore-Tex 756
Histologic Findings 379	Alloderm 756
Treatment..... 379	Products of Hyaluronic Acid ...
Congenital Nevi 379	
Clinical Manifestations 379	
Histological Features..... 380	
Treatment..... 380	
Acquired Nevocytic Nevi 384	
Clinical and histological features 384	
Management 384	
Dysplastic Nevi 385	
Clinical Features 385	
Histological Features..... 385	
Management 386	
References 387	