

Contents

viii Preface

Serup, J. (Copenhagen); Ercegovac, M. (Malvern, VIC); Bennoun, I. (Tel-Aviv); Hvas, D. (Rødovre)

State of Play from the Past to the Present

1 History of Cosmetic and Medical Tattoos

Laumann, A.E. (Chicago, IL)

5 The Sudden Rise of Cosmetic and Medical Tattoos on All Continents

Ercegovac, M. (Malvern, VIC); Serup, J. (Copenhagen)

Pigments, Inks, Needles, Devices and Auxiliaries

11 Color Biophysics and the Human Color Perception in Relation to Pigments and Tattooed Skin

Dahlgren, M.; Serup, J. (Copenhagen)

23 Formulation and Production of Tattoo Ink Stock Products for Cosmetic and Medical Applications: Pigment Raw Materials, Ingredients, Auxiliary Substances and Contaminants

Dirks, M. (St. Martin a. d. Raab)

30 Cosmetic and Medical Tattoos, National and International Regulatory Requirements on Instruments and Commercial Ink Stock Products

Pachten, A. (Berlin)

37 Needle Configuration and Application in Cosmetic and Medical Tattooing

Ercegovac, M. (Malvern, VIC)

52 Auxiliary Utensils in Cosmetic and Medical Tattoo Settings

Ercegovac, M. (Malvern, VIC); Serup, J. (Copenhagen)

72 Equipment Used for Cosmetic and Medical Tattooing

Pachten, A.; Scherkowski, D.; Kluge, J. (Berlin)

Planning, Preparation and Procedures

- 79 Essay on Professional Ethics Aspects of Cosmetic and Medical Tattoos**
Caraccioli, P.G. (Las Condes)
- 84 Cosmetic and Medical Tattooing: Procedural Planning from A to Z and the Informed Consent**
Ercegovac, M. (Malvern, VIC)

Tattoo Hygiene and Prevention of Infection

- 94 Medical Tattooing in Hospital Settings versus Parlors and the Challenging Hygiene Requirements**
Kierstein, L. (Frederiksund)
- 98 Infectious Risks, Universal Hygiene and Occupational Risks for Tattooing Technicians**
Viney, T. (Robina, QLD)
- 109 On the Use, Effectiveness, and Safety of Face Masks, Gloves, and Disinfectants to Prevent Transfer of Microbials between the Tattooist and the Customer: A Practical Review of Pros and Cons Including the Occupational Safety of the Tattooist**
Serup, J. (Copenhagen)

Practical Guidance to Cosmetic and Medical Tattoo Operations in Common Applications

- 131 Advanced Eyeliner Tattooing: Precautions, Tehnique and Procedure**
Molinaro, R. (Treviso)
- 141 Microblading Technique for Tattooing of “Hairstrokes” That Simulate Natural Hair: Eyebrow Tattooing and Correction of Medical Conditions**
Hvas, D. (Rødovre); Serup, J. (Copenhagen)
- 155 Tattooing of the Lips by Needle Technique: Artwork and Performance**
Ercegovac, M. (Malvern, VIC); Serup, J. (Copenhagen)
- 169 Areola and Nipple Reconstruction in Breast Cancer and Other Conditions**
Bennoun, I. (Tel-Aviv)
- 181 Psychological and Psychosocial Aspects of Medical Tattoos in Women with Breast Cancer**
Caraccioli, P.G. (Las Condes)
- 187 Camouflage of Vitiligo by Medical Tattooing**
Moreno, A. (Murcia)
- 197 Tattooing of Scars and Disfiguring Burn Lesions**
Bennoun, I. (Tel-Aviv)
- 205 Stretch Mark Treatment by Tattooing and Microneedling**
Määttä, J. (Helsinki)
- 212 Special Applications of Medical Tattooing: Contouring and 3D Exemplified by Tattooing of the Nailbed and the Gingiva**
Molinaro, R. (Treviso); Pirrera, A.; Renzoni, A. (Rome)
- 219 Psychological and Social Aspects of Cosmetic Tattoos versus Conventional Cosmetic Care**
Bregenzer, I. (St. Gallen)

Complications from Cosmetic and Medical Tattoos

- 225 **Technical and Clinical Complications of Cosmetic Tattooing**
Serup, J. (Copenhagen)
- 245 **Sarcoid Granulomas and Systemic Sarcoidosis Triggered by Cosmetic Tattoos**
Olisova, O.Y.; Teplyuk, N.P.; Grabovskaya, O.V.; Varshavsky, V.A.; Pyatilova, P.M.; Grekova, E.V. (Moscow); Serup, J. (Copenhagen)
- 251 **Tattoo Ink, Magnetism and Sensation of Burn during Magnetic Resonance Imaging, and Introduction of Hand-Held Magnet Testing of Commercial Tattoo Ink Stock Products prior to Use**
Hjorth Johannesen, H. (Copenhagen); Hvass Hansen, R. (Herlev); Alsing, K.; Serup, J. (Copenhagen)

Tattoo Removal

- 259 **A Practical Approach to Cosmetic Tattoo Removal with the Nd:YAG Laser**
Hirtler, P. (Vienna); Serup, J. (Copenhagen)
- 268 **High-Frequency (20 MHz) Focused Ultrasound: A Novel Method for Noninvasive Tattoo Removal**
Bove, T.; Zawada, T. (Hørsholm); Serup, J. (Copenhagen); Jessen, A.; Poli, M. (Hørsholm)

Structural and Anatomical Background of Facial Expression from the Fetal to the Senescent Stage

- 281 **Linearity and Surface Anatomy of the Face: From Embryo to Senescence**
Serup, J. (Copenhagen)
- 306 **Static and Dynamic Anatomy of the Face, in Particular Eyebrows, Eyelids and Lips**
Arne Gerber, P.; Filler, T. (Düsseldorf)

- 313 **Author Index**
- 314 **Subject Index**