An interdisciplinary update

Tattooed Skin and Health

Editors:

Jørgen Serup
Nicolas Kluger
Wolfgang Bäumler

Award 2016
'Highly Commended'

With about 10–20% of the adult population in Europe being tattooed, there is a strong demand for publications discussing the various issues related to tattooed skin and health. Until now, only a few scientific studies on tattooing have been published.

This book discusses different aspects of the various medical risks associated with tattoos, such as allergic reactions from red tattoos, papulo-nodular reactions from black tattoos as well as technical and psycho-social complications, in addition to bacterial and viral infections. Further sections are dedicated to the composition of tattoo inks, and a case is made for the urgent introduction of national and international regulations.

Distinguished authors, all specialists in their particular fields, have contributed to this publication which provides a comprehensive view of the health implications associated with tattooing. The book covers a broad range of topics that will be of interest to clinicians and nursing staff, toxicologists and regulators as well as laser surgeons who often face the challenge of having to remove tattoos, professional tattooists and producers of tattoo ink.

Fields of Interest: Dermatology; Allergy;
Infectious Diseases, Social Medicine, Public Health

www.karger.com/cupde

KARGER 125 YEARS

Current Problems in Dermatology, Vol. 48

Tattooed Skin and Health

Editors: Serup, J. (Copenhagen); Kluger, N. (Helsinki);
Bäumler, W. (Regensburg)

X + 258 p., 110 fig., 85 in color, 25 tab., 2015
CHF 197.00 / EUR 164.00 / USD 232.00 (hard cover)

CHF 236.00 / EUR 197.00 / USD 278.00 (online)

Online versions for institutional purchase,
Prices subject to change

EUR price for Germany, USD price for USA
and Latin America only

ISBN 978–3–318–02776–1 (hard cover)

e-ISBN 978–3–318–02777–8

Contents

• Preface: **Serup, J.; Kluger, N.; Bäumler, W.**

The Tattooed and the Social Environment

- The Cultural Heritage of Tattooing: A Brief History: **Krutak, L.**
- Epidemiology of Tattoos in Industrialized Countries: **Kluger, N.**

The Practice of Tattooing

- Tattoo Machines, Needles and Utilities: **Rosenkilde, F.**
- The Technique and Craftsmanship of Tattooing in the Professional Tattoo Parlour: **Kristensen, L.**
- Tattoo as Art, the Drivers Behind the Fascination and the Decision to Become Tattooed: **Kierstein, L.; Njelskau, K.C.**
- Personal Records from My Tattoo Parlour: Deep Emotions Drawn as Life-Long Pictures on the Skin's Canvas: **Kierstein, L.**
- Tattooist-Customer Relationships in a Diversified Environment of Professional Tattooists and 'Scratchers': **Wedel Kristensen, M.**

Tattoos and Adverse Events

- Tattoo Complaints and Complications: Diagnosis and Clinical Spectrum: **Serup, J.; Hutton Carlsen, K.; Sepehri, M.**
- Complications of Cosmetic Tattoos: **De Cuyper, C.**
- Chronic Tattoo Reactions Cause Reduced Quality of Life Equaling Cumbersome Skin Diseases: **Hutton Carlsen, K.; Serup, J.**
- Contraindications for Tattooing: **Kluger, N.**
- Laser Tattoo Removal, Precautions, and Unwanted Effects: **Eklund, Y.; Troilius Rubin, A.**
- Nano-Scale Observations of Tattoo Pigments in Skin by Atomic Force Microscopy: **Grant, C.A.; Twigg, P.C.; Tobin, D.J.**

Manufacturing, Materials and Properties of Marketed Tattoo Ink Stock Products

- Manufacturing of Tattoo Ink Products Today and in Future: Europe: **Michel, R.**
- The Realistic Variables Underlying True Safety in Tattoo Pigment Manufacturing: **Barth, M.**
- Making Innovative Tattoo Ink Products with Improved Safety: Possible and Impossible Ingredients in Practical Usage: **Dirks, M.**
- Tailored Surface Engineering of Pigments by Layer-by-Layer Coating: **Dähne, L.; Schneider, J.; Lewe, D.; Petersen, H.**

Ingredients, Chemical Analysis and Safety of Marketed Tattoo Ink Stock Products

- Chemical Purity and Toxicology of Pigments Used in Tattoo Inks: **Petersen, H.; Lewe, D.**
- Survey on European Studies of the Chemical Characterisation of Tattoo Ink Products and the Measurement of Potentially Harmful Ingredients: **Agnello, M.; Fontana, M.**
- Tattoo Inks: Legislation, Pigments, Metals and Chemical Analysis: **Prior, G.**
- The Challenges and Limitations of Chemical Analysis of Particulate Pigments of Very Low Solubility: **Olsen, O.**
- Photostability and Breakdown Products of Pigments Currently Used in Tattoo Inks: **Hauri, U.; Hohl, C.**
- Carbon Black Nanoparticles and Other Problematic Constituents of Black Ink and Their Potential to Harm Tattooed Humans: **Jacobsen, N.R.; Clausen, P.A.**
- Absorption, Distribution, Metabolism and Excretion of Tattoo Colorants and Ingredients in Mouse and Man: The Known and the Unknown: **Bäumler, W.**
- Towards the Limiting of Health Risks Associated with Tattooing: Whitelists for Tattoo Pigments and Preservatives: **Blume, A.; Platzek, T.; Vieth, B.; Hutzler, C.; Luch, A.**
- Survey of Studies on Microbial Contamination of Marketed Tattoo Inks: **Bonadonna, L.**

Regulation of and Intervention in the Tattoo Business

- The European Landscape of National Regulations of Tattoo Inks and Businesses: **Laux, P.; Luch, A.**
- Implementation of European Council Resolution ResAP(2008)1 in Italy. National and Regional Regulation of Tattoo Practices: Diversity and Challenges: **Renzoni, A.; Pirrera, A.; Novello, F.; Diamante, M.S.; Guarino, C.**
- EU Actions to Ensure the Safety of Tattoos and the Protection of Consumers: **Blass Rico, A.M.**
- Surveillance of Tattoo-Related Adverse Events by the EU RAPEX System and by National Monitoring: **Verdier, C.**
- The Amsterdam Model for Control of Tattoo Parlours and Businesses: **Veenstra, T.**
- Hygiene Standards for Tattooists: **Schmidt, A.**
- Hygiene Standards in the Tattoo Parlour and Practices for Prevention of Infection: **Bergström, J.; Bodlund, M.**
- Seamless Prevention of Adverse Events from Tattooing: Integrated Strategy Emphasising the Customer-Tattooist Interaction: **Serup, J.**
- Regulation of Tattoo Ink Production and the Tattoo Business in the US: **Haugh, I.M.; Laumann, S.L.; Laumann, A.E.**

Author Index/Subject Index

Well-referenced and timely reports from the most active areas of dermatology and skin research

Current Problems in Dermatology

Series Editors: **Itin, P.** (Basel), **Jemec, G.B.E.** (Roskilde)
ISSN 1421-5721 / e-ISSN 1662-2944

This series presents a selection of new ideas and information in the field of clinical and investigative dermatology. Crossing the borders of skin diseases it explores interdisciplinary strategies, linking dermatology with immunology, allergology and other research areas. Each volume is individually designed to provide an up-to-date presentation of new and interesting topics in dermatology and skin research. The contributing authors are acknowledged experts in their fields. The wide range of topics discussed includes normal and pathological skin conditions, the development of new equipment, drugs and analytical techniques, and recent advances in the treatments that can be offered to patients.

Vol. 47

Alopecias

Practical Evaluation and Management

Editors: Ioannides, D. (Thessaloniki); Tosti, A. (Miami, Fla.)

VIII + 164 p., 85 fig., 80 in color, 13 tab., 2015

CHF 189.00 / EUR 158.00 / USD 222.00 (hard cover)

CHF 227.00 / EUR 190.00 / USD 266.00 (online)

ISBN 978-3-318-02776-7 (hard cover)

e-ISBN 978-3-318-02777-8

Vol. 46

Actinic Keratosis

Editors: Soyer, H.P.; Prow, T.W. (Brisbane);

Jemec, G.B.E. (Roskilde)

VIII + 154 p., 33 fig., 29 in color, 4 tab., 2015

CHF 189.00 / EUR 158.00 / USD 222.00 (hard cover)

CHF 227.00 / EUR 190.00 / USD 266.00 (online)

ISBN 978-3-318-02762-4 (hard cover)

e-ISBN 978-3-318-02763-1

Vol. 45

Human Papillomavirus

Bench to Bedside

Editors: Ramirez-Fort, M.K.; Khan, F.; Rady, P.L.; Tyring, S.K. (Houston, Tex.)

VIII + 272 p., 61 fig., 55 in color, 15 tab., 2014

CHF 219.00 / EUR 183.00 / USD 258.00 (hard cover)

CHF 263.00 / EUR 220.00 / USD 310.00 (online)

ISBN 978-3-318-02526-2 (hard cover)

e-ISBN 978-3-318-02527-9

Vol. 1-44 available, please ask for details

Prices subject to change

EUR price for Germany, USD price for USA and

Latin America only

Order Form

Current Problems in Dermatology

Please send:

___ copy/ies: Vol. 48:

Tattooed Skin and Health

CHF 197.00 / EUR 164.00 / USD 232.00

ISBN 978-3-318-02776-1

___ copy/ies: _____

ISBN 978-3-318- _____

☐ the book series **Current Problems in Dermatology**
on continuation beginning with vol. _____

☐ information on vols. 1-44

All Karger series are available on continuation.
Each volume will be sent upon publication until order is
countermanded.

For easy ordering or further information
about the series log on to: **www.karger.com/cupde**

Postage and handling free with prepayment

Payment

Please charge this order to my credit card

☐ American Express ☐ Diners
☐ Visa ☐ MasterCard

Card No.: _____

Exp. date: _____

CVV/CVC: _____

☐ Check enclosed ☐ Please bill me

Name/Address (please print): _____

E-Mail: _____

Date/Signature: _____

Orders can be placed at agencies, bookstores, directly with the
publisher, or with any Karger distributor.

S. Karger AG, P.O. Box, 4009 Basel (Switzerland)

f: +41 61 306 12 34, e: orders@karger.com

USA: S. Karger Publishers, Inc., 26 West Avon Road,
P.O. Box 529, Unionville, CT 06085

Toll free: +1-800-828-5479

Germany: S. Karger GmbH, 79095 Freiburg

France: Enter & Read, Albertine Luginbuhl, 75014 Paris

Japan: Karger Japan, Inc., Tokyo 105-0012

South East Asia, China and Taiwan: Karger China, Shanghai 200001

For details and further representatives and agencies see
www.karger.com/worldwide

To be ordered through:

KARGER 125 YEARS

www.karger.com/cupde