
Clinical Photomedicine

**edited by
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Clinical Photomedicine Clinical Photomedicine

G Thomas



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Handbook of Photomedicine Michael R. Hamblin, Ying-Ying

Huang,2013-10-22 Providing the most comprehensive up to date coverage of this exciting biomedical field Handbook of Photomedicine gathers together a large team of international experts to give you a complete account of the application of light in healthcare and medical science The book progresses logically from the history and fundamentals of photomedicine to diverse therapeutic applications of light known collectively as phototherapies It facilitates your understanding of human diseases caused by light the rationale for photoprotection and major applications of phototherapy in clinical practice The handbook begins with a series of historical vignettes of pioneers from the last two centuries It also presents the fundamentals of physics and biology as applied to photomedicine It next examines conditions and diseases caused by light including skin cancer dermatoses and immunosuppression The remainder of the book focuses on the most important clinical therapeutic applications of different kinds of light that vary in both wavelength and intensity The book discusses ultraviolet phototherapy for skin diseases and infections and presents the basic science of photodynamic therapy and its use in cancer therapy and other medical specialties It then covers mechanistic studies and clinical applications of low level laser light therapy as well as the use of high power or surgical laser therapy in specialties such as dentistry and dermatology The book concludes with a collection of miscellaneous types of phototherapy Photomedicine - Advances in Clinical Practice ,19?? *Photomedicine* Yohei Tanaka,2017 *Current Catalog* National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 **Photodynamic Medicine** Herwig Kostron,Tayyaba Hasan,2016-08-15 Photodynamic therapy PDT is increasingly being used amongst health practitioners in combating a variety of diseases This book reviews the current state of development of PDT and also presents the foreseeable advancements of the field in the next decade Practitioners in biological sciences biotechnology and medicinal and pharmaceutical chemistry will find this book an invaluable source of information Chapters are drawn from research discussed at the 10th International Symposium on Photodynamic Therapy and Photodiagnosis in Clinical Practice in Brixen and are written and edited by leaders in the field Mirroring the philosophy of that meeting this book contains an informative balance of the basic science and clinical applications of PDT Following an introduction to PDT its history and how techniques have developed chapters serve as a practical guide for practitioners covering topics such as sensitizer dosage and light dosage and examples of relevant studies The text goes further to explore areas outside the medical field such as the impact of PDT on society and the environment and the economics of therapies This book is dedicated to the memory of Professor Giulio Jori an expert in this field who sadly passed away on the 23rd December 2014 **Dermatological Phototherapy and Photodiagnostic Methods** Jean Krutmann,Herbert Hönigsmann,Craig A. Elmets,2013-03-14 New developments in the field of the commonly used photodiagnostic and phototherapeutic methods help to continuously improve the results in the daily practice Edited by internationally renowned experts the new edition offers again up to date comprehensive and clinically relevant information on every aspect of photodiagnosics and phototherapy This eagerly awaited 2nd edition will become the bible of this field It is structured in

following parts Photochemotherapy in daily practice special phototherapeutic modalities and photoprotection Due to the detailed structure the book is more reader friendly and has a strong focus on clinical aspects It includes Guidelines for the treatment selections of specific diseases practical guidelines for phototherapy with information about basic principles of photobiology standardized test protocols for photodermatoses and diagnosis for skin tumors The book is an invaluable resource for dermatologists oncologists and all other physicians treating dermatological patients *The Science of Photomedicine* J.D. Regan, 2012-12-06 Although the history of photomedicine dates back thousands of years with even preliterate cultures appreciating the healing properties of sunlight for many workers in the discipline photomedicine is associated with the observation about 100 years ago of Niels Finsen a Danish physician Finsen recognized that people with tuberculosis who lived in Norway and who had very little exposure to sunlight often developed facial lesions lupus vulgaris which would decrease and sometimes disappear during the summer months This very observant physician reasoned that artificial light ought to produce the same effect as sunlight and began utilizing the radiation from the newly available carbon arc At first he used a glass lens to concentrate the radiation but since this produced considerable burning he replaced this with a hollow glass lens filled with water However while this reduced the heat burns it did not actually duplicate the effect of direct sunlight Finally using a hollow lens filled with water but equipped with quartz windows Finsen was able to imitate even improve upon the effect of sunlight As a result lupus vulgaris was practically eliminated from the Scandinavian countries

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