



REVIEW

Skin cancer-associated genodermatoses in skin of color patients: a review

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Received: 22 October 2023 / Revised: 22 October 2023 / Accepted: 26 April 2024 / Published online: 25 May 2024
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Abstract

Skin cancers are associated with a large number of genodermatoses. Existing knowledge and guidelines on the presentations of these genodermatoses focus disproportionately on White patients. Our goal is to identify notable characteristics in location, frequency, and severity of cutaneous findings along with the median age of skin cancers in skin-of-color (SOC) patients with skin-cancer-associated genodermatoses to improve diagnosis rates. We searched for genodermatoses on six databases. Each case report or case series was reviewed, including reports, published in English, containing adult patient descriptions. Duplicate manuscripts were removed using EndNote. The following case-level data were collected from the manuscripts: age, gender, patient country or region of origin, author country/continent of residence, skin cancer-related, and other key dermatologic features. 381 published articles, with a total of 578 SOC patients, met criteria for inclusion. SOC patients can present with fewer classic findings, such as a lower incidence of basal cell carcinomas (44%) in SOC Gorlin syndrome patients than palmar pits (66%) and mandibular cysts (66%). Differences between SOC populations were also noted, such as leukoplakia being more common in Asian dyskeratosis congenita patients (80%) in comparison to African dyskeratosis congenita patients (44%). SOC patients also have varying onset of skin cancer depending on the genodermatosis, from a median of 25 years of age in Rothmund-Thomson syndrome to 53 in Muir-Torre syndrome. In this review, SOC patients with genodermatoses can have varying presentations. Being cognizant of these characteristics may lead to earlier diagnosis and interventions to mitigate skin-cancer-related morbidity in SOC patients.

Keywords General dermatology · Medical dermatology · Oncology · Basal cell carcinoma · Clinical research · Skin of color · Genodermatoses · Melanoma · Squamous cell carcinoma

Background

Cutaneous squamous cell carcinomas (SCCs) and basal cell carcinomas (BCCs) are common, with around five million annual cases in the United States alone [1]. Deaths from melanoma exceed eighty thousand cases annually [2]. Skin cancers can develop sporadically, or as part of known hereditary genodermatoses. Prior published studies and textbooks mainly focused on the clinical features of these dermatoses in White patients. Their incidence and presentation in

skin-of-color (SOC) patients have not been systematically studied.

As demographics in the United States continue to shift and become more racially diverse, the need for the medical community to address and reduce this knowledge gap becomes ever more pressing. Skin cancers in SOC often present atypically or with advanced stage, and consequently have worse prognosis, compared to White patients [3].

We conducted a case-level review and identified key characteristics in clinical presentations for skin-cancer-related genodermatoses in SOC patients. We hope to contribute to the much-needed knowledge base for the early detection and management of genodermatoses in SOC patients.

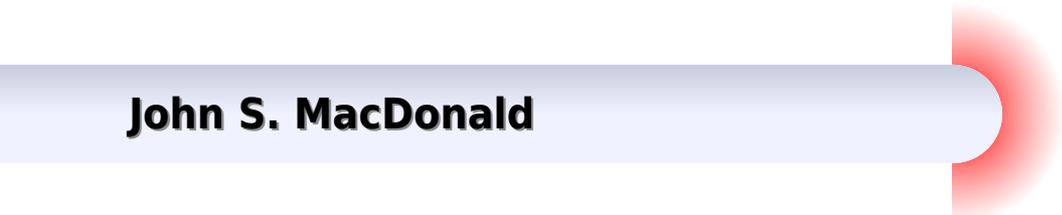
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Cancer Associated Genodermatoses

John S. MacDonald



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Cancer-associated Genodermatoses Henry T. Lynch, Ramon M. Fusaro, 1982 Hematology/oncology Secrets Marie E. Wood, George K. Philips, 2003 You asked for a new edition Here it is better than ever Not only have many of the same experts in hematology and oncology returned to update their chapters but new specialists have joined the team rounding out this edition s detailed coverage of cancer treatment palliative care blood disorders genetic counseling and more New to this edition are skeletal complications of malignancy fatigue in the cancer patient and targeted molecular therapy Freshen your knowledge base study for the boards or read for the challenge of testing yourself Back cover *Skin Tumors and Reactions to Cancer Therapy in Children* Jennifer T. Huang, Carrie C. Coughlin, 2017-11-25 In today s era of genomic testing targeted cancer therapies and increased cancer survivorship recognition and management of oncologic disease in children is becoming more important to address This book familiarizes clinicians with the range of oncologic issues that pediatric dermatologists encounter including the diagnosis and management of various skin tumors cutaneous reactions to cancer therapies and both acute and long term complications of cancer therapy Written and edited by experts in the field *Pediatric Skin Tumors and Cutaneous Reactions to Cancer Therapy* explores these important topics beginning with the discussion of various skin tumors and associated genetic syndromes followed by chapters on acute cutaneous reactions to traditional and targeted cancer therapies graft versus host disease and opportunistic skin infections This book concludes with the discussion of both malignant and nonmalignant late effects of the skin in childhood cancer survivors Recent Progress in the Genetic Epidemiology of Cancer Henry T. Lynch, Petre Tautu, 2012-12-06 The discipline of genetic epidemiology pertains to the vertical transmission of the susceptibility predisposition to a complex disease in a structured population This statement meets halfway 1 the broad definition given by N E Morton and S c Chung in 1978 2 and the concise one given by M C King et al in 1984 It pinpoints the fundamental genetic hypothesis namely the existence of an inherited condition that predisposes an individual to a specific disease and the corresponding subject of investigation the family Thus the genetic epidemiological situation consists of three basic elements 1 the genealogical structure 2 the mode of inheritance i e the genetic model for the trait of interest and 3 the observable phenotypes of susceptibility It is clear that genetic epidemiology is a research field positioned at the intersection of molecular genetics population genetics and clinical genetics Perhaps the genealogical tree should be its central element it evidences something forgotten in molecular genetics namely the relationships and associations with probabilistic and statistical concepts from population genetics It offers a structure and a history for those clinicians studying familial diseases who are searching for genetic determinants of susceptibility The genetic epidemiologist begins his analysis with a point on this genealogical tree namely the proband and attempts to carry out nonrandom ascertainment sampling by using a strategy that depends on the form and dimension extended pedigrees versus nuclear families of the tree **Gastrointestinal Oncology** John S. MacDonald, 2012-12-06 This is the third volume on

gastrointestinal cancer of the Cancer Treatment and Research Series The emphasis in this volume is to present a series of papers on areas of high clinical relevance in malignant diseases of the gut As in the first and second volumes of this series authors have been selected for their expertise and national and international prominence in their fields This volume is organized so that papers explaining basic science precede those dealing with clinical aspects of gastrointestinal cancer It is clear that in many instances advanced gastrointestinal carcinoma cannot be effectively treated if cure is the desired goal When faced with poorly treatable diseases it is obviously important to look toward the causes and prevention of these illnesses For this reason there are several chapters in this volume that examine the issue of carcinogenesis of gastrointestinal cancer Likewise in diseases that are poorly treatable in advanced stages one is interested in early detection Thus early screening of populations becomes important and is dealt with in three papers in this volume Chapters on treatment explore innovative approaches to therapy of gastrointestinal cancer Second look surgery with resection arterial perfusion with chemotherapy adjuvant therapy and neoadjuvant therapy are all addressed in various chapters in this volume Finally four chapters deal with unusual problems in gastrointestinal cancer These papers include discussions of primary hepatobiliary cancer lymphoma of the gut and gastrointestinal endocrine tumors

Pediatric Dermatology E-Book Bernard A Cohen, 2013-06-14 Clinically focused and practical this diagnostic reference is ideal for anyone who treats children with skin disorders Over 800 top quality full color illustrations balanced by clear and succinct text deliver the right amount of clinical detail to help readers identify a wide range of diseases Plus summary tables and differential diagnosis algorithms help simplify diagnosis Contains differential diagnosis algorithms and summary tables that aid in diagnosis Offers a comprehensive bibliography at the end of each chapter for further study Uses an easily accessible format to locate key information Presents a new chapter on mucous membrane lesions with increased coverage of the mouth and genital areas Features 200 new or replaced photographs of unparalleled quality Includes European drug names when appropriate

Dermatology Otto Braun-Falco, Gerd Plewig, Helmut Heinrich Wolff, Walter Burgdorf, 2000-09-27 Completely revised and updated Dermatology covers all the classical and related fields of dermatology providing a wealth of information on clinical features pathophysiology and differential diagnosis Over 900 color photographs acquaint the reader with a variety of dermatological diseases Each chapter contains detailed proposals for comprehensive therapy

Color Atlas of Dermatology Martin Rocken, Martin Schaller, 2012-02-22 A beautifully illustrated and comprehensive pocket atlas of clinical dermatology Color Atlas of Dermatology is an illustrated guide to the spectrum of dermatological pathologies This easy to use book provides a wealth of practical knowledge essential both in daily practice and when planning treatment The atlas organizes the main areas of clinical dermatology in a user friendly format presenting short precise descriptions on the left and illustrative images on the right This text brings you the most practical and comprehensive information It begins with the basic principles of dermatological practice followed by a thorough study of each disease accompanied by techniques for

diagnoses and treatment Treatment procedures include surgery pharmacotherapy and the application of physical medicine methods The instructive color plates are an invaluable aid in visualizing even the most complex relationships Features Hundreds of detailed images of actual cases including graphic illustrations of diagnostic and therapeutic pathways Valuable treatment notes of all common dermatological conditions in day to day practice All of the current scientific knowledge of dermatology combined with the classic Thieme Flexibook layout with a double page spread The Color Atlas of Dermatology is a handy clinical reference for dermatologists and general practitioners as well as an excellent review tool for medical students preparing for oral exams *Genetics of Human Cancer* John J. Mulvihill, Robert W. Miller, Joseph F. Fraumeni, 1977

Photodynamic Therapy in Dermatology Xiuli Wang, Bo Wang, 2025-07-29 This book provides an overview of the contemporary landscape of photodynamic therapy in dermatology It encapsulates the latest research accomplishments and anticipates the trajectory of its evolution for treating cutaneous ailments Details of photodynamic therapy in clinical treatment of non melanoma skin cancer cutaneous melanoma infectious dermatoses and other cutaneous diseases are presented in the book Dermatologists actively involved in photodynamic clinical practice will find this book immensely instructive while novices in the field will be equally captivated and motivated by its insights *Atlas of Cancer of the Skin* Günter Burg, 2000 Featuring state of the art information on clinical features histomorphology diagnostic clues prognosis and therapy for a full range of skin cancers More than 455 full color images offer readers outstanding visual detail

Pathophysiological Aspects of Cancer Epidemiology Georges Mathé, Peter Reizenstein, 1985 Hardbound Tumor epidemiology has traditionally used an analytical approach In order to study the role played by endogenous factors such as the biological response to tumors and genetic and physiological factors a new approach is required The retroviruses and oncogens illustrate the need to integrate the study of endogenous and exogenous factors in cancer epidemiology The new approach proposed to cancer epidemiology could hopefully have relevant results for instance in regard to iatrogenic tumors or tumor prevention If the reason why most secondary tumors are either acute myeloid leukemias or lymphomas can be understood it may be possible to prevent these iatrogenic tumors now seen in almost 10 per cent of long term survivors

Skin Cancer Rona M. MacKie, 1989 *Cancer, Principles and Practice of Oncology* Vincent T. DeVita (Jr.), Steven A. Rosenberg, Samuel Hellman, 1997 *Cancer* Vincent T. DeVita (Jr.), 1993 **Cancer Genetics in Women** Henry T. Lynch, Stig Kullander, 1987 Cancer Vincent T. DeVita, Samuel Hellman, Steven A. Rosenberg, 1997 **Biomarkers, Genetics, and Cancer** Hoda Anton-Guirgis, Henry T. Lynch, 1985 **Hereditary Tumors** Heike Allgayer, Helga Rehder, Simone Fulda, 2009-02-17 Summarizing molecular aspects diagnostic as well as therapeutic issues this book is the very first and most comprehensive on hereditary aspects of tumor diseases The editors and many contributors have been made fellows of the Ingrid zu Solms Foundation due to their outstanding achievements in scientific research and they discuss here the latest aspects in the diagnosis disease management and treatment of hereditary tumor diseases and syndromes

From the contents Hereditary Tumors General Aspects Syndromal Types of Hereditary Tumors Site Specific Aspects of Hereditary Tumors Genetic Counseling for Hereditary Tumors A must have ready reference for medical and biology students MDs PhDs physicians and researchers *Evidence that Formation of Neurofibrosarcomas in Individuals with Type 1 Neurofibromatosis is Associated with Activation of Growth Factor Pathways* Jeremy W. Wray, 1994

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