



REVIEW

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

Sherwin Fazelpour<sup>1</sup> · Sandhya Chowdary Deverapalli<sup>2</sup> · Bichchau Nguyen<sup>2</sup>

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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.

✉ Sherwin Fazelpour  
sfazelpo@bu.edu

<sup>1</sup> Boston University School of Medicine, 72 E Concord St, Boston, MA 02118, USA

<sup>2</sup> Tufts Medical Center, 800 Washington St, Boston, MA 02111, USA

# Cancer Associated Genodermatoses

**Bahar Dasgeb, Darius Mehregan ,Adam  
Berger**

## **Cancer Associated Genodermatoses:**

*Cancer-associated Genodermatoses* Henry T. Lynch, Ramon M. Fusaro, 1982      **Skin Cancer, Second Edition** Rona M. MacKie, 1996-01-01 This second edition includes an expanded section on prevention and early detection      [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      [Genodermatoses](#) Joel L. Spitz, 2005 Aimed at dermatologists pediatricians and family physicians this resource can be used for both board preparation and clinical practice Each syndrome is presented in easy to read two page spreads that include full body diagrams and clinical photographs The material is summarized in bulleted text that lists the patterns of inheritance prenatal diagnosis incidence age of presentation pathogenesis key features differential diagnosis lab findings management and prognosis Clinical pearls are interspersed through the text This second edition updates previous chapters and includes new syndromes such as PHACE AEC EEC Griscelli and Birt Hogg Dube Annotation 2004 Book News Inc Portland OR booknews.com source inconneue      **Atlas of Genodermatoses** Gianluca Tadini, Michela Brena, Francesca Besagni, Lidia Pezzani, 2024-05-28 Genodermatoses are often considered rare diseases seldom seen by practicing clinicians but as a result professionals often have little experience or confidence with their diagnosis when they are called upon for a clinical case This text presents a comprehensive illustrated overview of almost 200 inherited diseases of the skin hair and nails Examples have been expanded with new images added to provide clear examples alongside coherent and comprehensive explanations to enable clinicians to easily identify and source relevant information This resource encompasses a varied range of skin diseases providing accessible and in depth information to help familiarise clinicians The entry for each disease provides background followed by common characterisations manifestations laboratory findings genetics cutaneous and extracutaneous findings differential diagnosis an overview of complications and recommended follow ups Authored by dermatologists and geneticists this is an atlas of scientific research which updates established information with current studies and references In its third edition this text becomes an invaluable resource for dermatologists and pediatricians      **A Practical Guide to Human Cancer Genetics** S. V. Hodgson, 2007 The 2006 third edition of this very successful book provides a comprehensive and practical

guide to the diagnosis and management of inherited disorders conferring susceptibility to cancer Issues discussed include risk assessment genetic counselling predictive testing and organisation of a cancer genetics service A full reference list gives access to background literature With molecular information screening guidelines and management advice this new edition will provide geneticists and clinicians in all disciplines with an invaluable resource for screening managing and advising patients **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 **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 1t 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 **Atlas of**

**Genodermatoses** Ruggero Caputo, Gianluca Tadini, 2005-12-12 A lavishly illustrated guide to almost 200 inherited diseases of the skin hair and nails Each entry includes synonyms age of onset clinical findings complications course laboratory findings diagnosis therapy and key references adding up to far more than just a collection of photographs In addition to being a clinical primer this is also a work of scientific research and contains the first printed description of two new syndromes The fast moving world of genetic research means that the latest genetic correlations included here render previous texts out of date All specialists in Dermatology and Pediatrics should find this an invaluable front line resource in the clinic

**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 proceed those dealing with clinical aspects of gastrointestinal cancer It is clear that in many instances advances 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

*Mohs Micrographic Surgery* Stephen N. Snow, George R. Mikhail, 2004 Mohs Micrographic Surgery an advanced treatment procedure for skin cancer offers the highest potential for recovery even if the skin cancer has been previously treated This procedure is a state of the art treatment in which the physician serves as surgeon pathologist and reconstructive surgeon It relies on the accuracy of a microscope to trace and ensure removal of skin cancer down to its roots This procedure allows dermatologists trained in Mohs Surgery to see beyond the visible disease and to precisely identify and remove the entire tumor leaving healthy tissue unharmed This procedure is most often used in treating two of the most common forms of skin cancer basal cell carcinoma and squamous cell carcinoma The cure rate for Mohs Micrographic Surgery is the highest of all treatments for skin cancer up to 99 percent even if other forms of treatment have failed This procedure the most exact and precise method of tumor removal minimizes the chance of regrowth and lessens the potential for scarring or disfigurement

**Familial Cancer and Prevention** Joji Utsunomiya, John J. Mulvihill, Walter Weber, 1999-04-27 A New Strategy Toward Cancer Control Still in its infancy the familial hereditary approach to cancer control is proving to be one of the most potent strategies in the war on cancer Over the past few years the human genome project has generated an abundance of valuable information on the genetic origins of a range of cancers Tests now exist for several hereditary tumor promoting genetic mutations including those found in BRCA genes associated with breast cancer as well as mutations of HNPCC genes which have been linked to colon cancers and many more are anticipated in the near future Armed with the information yielded by these tests physicians have already saved countless lives through preventative counseling early detection and more highly focused intervention strategies Inspired by the proceedings of the UICC 1997 Symposium on Familial Cancer and Prevention held in Kobe Japan this volume provides

clinicians and researchers with a detailed review of the latest developments at the front lines of the familial cancer prevention movement In a series of edited contributions leading researchers and clinicians from around the globe summarize their experiences and analyze current and emerging trends in Information gathering and history taking Risk assessment Genetic testing for colorectal endocrine breast and other familial cancers Diagnosis prognosis and management of an array of familial cancers Genetic counseling for familial cancers Up to date authoritative and comprehensive Familial Cancer and Prevention is an important working resource for clinicians cancer researchers and epidemiologists 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 formatpresenting 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 *Cutaneous Oncology and Skin Cancer Genomics* Bahar Dasgeb,Darius Mehregan ,Adam Berger,2024-09-19 This Research Topic of Frontiers in Medicine is focused on the new diagnostic and therapeutic protocols in the field of skin solid tumors and lymphoma and soft tissue oncology with an emphasis on challenging complex and advanced clinical scenarios as follows patients presenting with numerous and or recurring skin and soft tissue malignancies immune deficiencies including but not limited to organ transplant patients management of patients with adverse events due to underlying oncological treatments such as life saving clinical trials or treatment protocols describing the cutaneous adverse events of emerging oncological treatment not yet reported in the literature germ line or tumor mutations that are believed to play a role in the severity or complexity of the phenotype of the skin and soft tissue tumors the role of oncoviruses in the development of cutaneous malignancies and using such understating and etiology towards immunization therapeutic and preventive measures This Research Topic in Frontiers in Medicine will also be a platform to present the new and emerging technologies applied to cutaneous and soft tissue oncology such as radiation therapy imaging technologies supervised or non supervised computed algorithms and AI applied to the skin and soft tissue bio photonics and

optical technology applied to the skin and soft tissue Additionally innovative molecular histopathology for diagnostic risk stratifying or therapeutic measures in the field of dermatopathology is within the scope of this Research Topic Moreover surgical approaches or a combination of surgical and non surgical protocols with emphasis on the outcome or the data analysis of surgical outcome that has is more comprehensive and preferably prospective compare to existing information in the literature Investigator initiated clinical trials and commentaries with a point of view towards prevention early detection or better risk stratification of patients at higher risk for skin malignancies compare to the general population are also of interest for this Research Topic on cutaneous oncology and skin cancer genomics It is with deepest sorrow that we share with you the passing of our co editor Professor Jouni Uitto to whom we dedicate this collection [Current Catalog National Library of Medicine \(U.S.\),1982](#) First multi year cumulation covers six years 1965 70 [National Library of Medicine Current Catalog National Library of Medicine \(U.S.\),1982](#) [Rook's Textbook of Dermatology](#) Christopher E. M.

Griffiths,Jonathan Barker,Tanya O. Bleiker,Walayath Hussain,Rosalind C. Simpson,2024-04-16 The latest edition of the world s leading dermatology textbook Rook s Textbook of Dermatology 10th Edition is the most definitive comprehensive and illustrated reference work in dermatology worldwide Fully updated by experts from around the world the book highlights the latest key evidence based developments in pathogenesis diagnosis and treatment of skin disorders A highly intuitive resource and invaluable clinical companion for both those training and those fully qualified in dermatology other highlights of Rook s Textbook of Dermatology 10th Edition include 1 Comprehensive review of essential basic science skin biology and pharmacology 2 More than 3000 clinical illustrations 3 Histological images to aid clinicopathological correlation 4 Up to date management details for all major dermatological disorders including emerging infections 5 All chapters fully referenced together with highlighted key references 6 Quick reference to essential facts treatment ladders and management algorithms 7 Chapter dedicated to global skin health and inequalities 8 Description of the spectrum of presentations in dermatoses in skin of colour 9 Thorough review of surgical and aesthetic dermatology 10 On line videos of practical procedures Rook s Textbook of Dermatology 10th Edition is universally recognised as the most complete reference work for dermatologists of all experience levels and dermatology students worldwide [DNA Alterations in Lynch Syndrome](#) Matjaž

Vogelsang,2013-11-19 Lynch syndrome LS is the most common cause of inherited colorectal cancer a disease with a high mortality rate An estimated 37 000 of diagnosed colorectal cancer cases worldwide are attributed to Lynch syndrome each year Intensive cancer screening with early initiation and frequent follow up can reduce colorectal cancer incidence and mortality in LS patients This book provides an up to date overview on the genetic and epigenetic basis of Lynch syndrome It evaluates clinical features of the disease and critically comments on molecular tools available for identifying mutations responsible for Lynch syndrome in addition the importance of functional assays that can help clarify the clinical nature of identified mutations is also discussed The book also focuses on challenges in genetic counselling of at risk individuals and

discusses related ethical issues The purpose of the book is to give a concise knowledge base for the broader scientific and medical community including genetic counselors in order to improve awareness on the potential impact that the diagnosis of LS has on treatment management and surveillance of LS patients **Clinical Cases in Pediatric Skin Cancers** Francesca Satolli, Michael Tirant, Uwe Wollina, Torello M. Lotti, 2022-05-09 This book is a concise practical guide designed to facilitate the clinical decision making process in the management of pediatric skin cancers Dermatologists oncologists and general pediatricians who offer primary care to children must be knowledgeable in identifying and managing dermatological cancers and this title provides insightful reviews of a number of common and rare dermatologic cases Clinical cases are a key component in modern medical education assisting the trainee or recertifying clinician to work through unusual scenarios using best practice techniques Pediatric dermatology is a particularly important discipline in this regard since it is a highly visual subject requiring the reader to describe often very subtle differences in the presentation of patients and define accurately the diagnostic and management criteria on which to base their clinical decision making Clinical Cases in Pediatric Skin Cancers concisely covers how to approach diagnosing and managing skin cancers in pediatric patients Each chapter focuses on a particular case and emphasizes how to make an appropriate choice when deciding which diagnostic tool or management strategy would be most suitable Potential complications are detailed and management tips provided to enable the reader to develop a deep understanding of how approach the care of these patients within their day to day clinical practice This book therefore represents an ideal up to date resource for all practitioners who encounter these cases as part of their everyday practice *Cutaneous Oncology Update, An Issue of Dermatologic Clinics, E-Book* Stanislav N. Tolkachjov, 2022-11-23 In this issue of Dermatologic Clinics guest editor Dr Stan N Tolkachjov brings his considerable expertise to Cutaneous Oncology Update Top experts in the field cover key topics such as T cell lymphomas B cell lymphomas Mohs micrographic surgery mesenchymal carcinomas cutaneous oncology in the immunosuppressed approaches to tumors of the nail unit and genitalia and more Contains 16 relevant practice oriented topics including squamous cell carcinoma including high risk targeted therapy and immunotherapy in non melanoma skin cancer melanoma targeted therapy and immunotherapy in melanoma genetic expression profiles in cutaneous oncology and more Provides in depth clinical reviews on cutaneous oncology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews



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