

HEREDITARY CANCER

HEREDITARY CANCER REFERS TO CANCERS THAT ARE CAUSED BY INHERITED GENETIC MUTATIONS PASSED DOWN FROM ONE GENERATION TO THE NEXT. UNLIKE SPORADIC CANCER, WHICH ARISES FROM MUTATIONS ACQUIRED DURING A PERSON'S LIFETIME, HEREDITARY CANCER IS LINKED TO SPECIFIC GENE ALTERATIONS THAT SIGNIFICANTLY INCREASE AN INDIVIDUAL'S RISK OF DEVELOPING CERTAIN TYPES OF CANCER. UNDERSTANDING HEREDITARY CANCER IS CRUCIAL FOR EARLY DETECTION, PREVENTION STRATEGIES, AND PERSONALIZED TREATMENT APPROACHES. THIS ARTICLE EXPLORES THE FUNDAMENTALS OF HEREDITARY CANCER, THE MOST COMMON HEREDITARY CANCER SYNDROMES, GENETIC TESTING PROCEDURES, RISK FACTORS, AND CURRENT MANAGEMENT OPTIONS. IT ALSO HIGHLIGHTS THE IMPORTANCE OF GENETIC COUNSELING AND ONGOING RESEARCH IN THIS FIELD. THE FOLLOWING SECTIONS WILL PROVIDE A COMPREHENSIVE OVERVIEW TO HELP INDIVIDUALS AND HEALTHCARE PROFESSIONALS BETTER UNDERSTAND HEREDITARY CANCER AND ITS IMPLICATIONS.

- UNDERSTANDING HEREDITARY CANCER
- COMMON HEREDITARY CANCER SYNDROMES
- GENETIC TESTING AND COUNSELING
- RISK FACTORS AND PREVENTION
- MANAGEMENT AND TREATMENT OPTIONS

UNDERSTANDING HEREDITARY CANCER

DEFINITION AND CAUSES

HEREDITARY CANCER OCCURS WHEN A PERSON INHERITS A MUTATED GENE THAT PREDISPOSES THEM TO DEVELOPING CANCER. THESE GENETIC MUTATIONS ARE PRESENT IN EVERY CELL OF THE BODY FROM BIRTH AND CAN BE PASSED ON TO OFFSPRING. THE MUTATIONS TYPICALLY INVOLVE GENES RESPONSIBLE FOR CONTROLLING CELL GROWTH, DNA REPAIR, OR APOPTOSIS (PROGRAMMED CELL DEATH), WHICH ARE CRITICAL IN PREVENTING UNCONTROLLED CELL PROLIFERATION THAT LEADS TO CANCER.

DIFFERENCE BETWEEN HEREDITARY AND SPORADIC CANCER

WHILE HEREDITARY CANCER IS CAUSED BY INHERITED GENETIC CHANGES, SPORADIC CANCER DEVELOPS DUE TO MUTATIONS ACQUIRED OVER AN INDIVIDUAL'S LIFETIME, OFTEN INFLUENCED BY ENVIRONMENTAL FACTORS SUCH AS SMOKING, RADIATION, OR VIRAL INFECTIONS. HEREDITARY CANCERS USUALLY OCCUR AT A YOUNGER AGE AND MAY AFFECT MULTIPLE FAMILY MEMBERS ACROSS GENERATIONS, UNLIKE SPORADIC CASES WHICH TEND TO BE ISOLATED INCIDENTS.

GENETIC MUTATIONS INVOLVED

THE MOST WELL-KNOWN GENES ASSOCIATED WITH HEREDITARY CANCER INCLUDE BRCA1 AND BRCA2, WHICH ARE LINKED TO BREAST AND OVARIAN CANCERS. OTHER IMPORTANT GENES INCLUDE TP53, ASSOCIATED WITH LI-FRAUMENI SYNDROME, AND MISMATCH REPAIR GENES LIKE MLH1 AND MSH2, WHICH ARE IMPLICATED IN LYNCH SYNDROME. MUTATIONS IN THESE GENES DISRUPT NORMAL CELLULAR PROCESSES, INCREASING CANCER RISK SIGNIFICANTLY.

COMMON HEREDITARY CANCER SYNDROMES

HEREDITARY BREAST AND OVARIAN CANCER SYNDROME (HBOC)

THIS SYNDROME IS PRIMARILY CAUSED BY MUTATIONS IN BRCA1 AND BRCA2 GENES. INDIVIDUALS WITH HBOC HAVE A MUCH HIGHER LIFETIME RISK OF DEVELOPING BREAST AND OVARIAN CANCER COMPARED TO THE GENERAL POPULATION. MEN WITH THESE MUTATIONS ALSO FACE INCREASED RISKS OF PROSTATE AND BREAST CANCERS.

LYNCH SYNDROME (HEREDITARY NONPOLYPOSIS COLORECTAL CANCER)

LYNCH SYNDROME RESULTS FROM INHERITED MUTATIONS IN MISMATCH REPAIR GENES AND SIGNIFICANTLY RAISES THE RISK OF COLORECTAL CANCER, AS WELL AS OTHER CANCERS SUCH AS ENDOMETRIAL, STOMACH, AND URINARY TRACT CANCERS. IT IS ONE OF THE MOST COMMON HEREDITARY CANCER SYNDROMES.

LI-FRAUMENI SYNDROME

CAUSED BY MUTATIONS IN THE TP53 GENE, LI-FRAUMENI SYNDROME IS CHARACTERIZED BY A BROAD SPECTRUM OF CANCERS, INCLUDING SARCOMAS, BREAST CANCER, BRAIN TUMORS, AND ADRENOCORTICAL CARCINOMA. THIS SYNDROME OFTEN LEADS TO CANCER AT A VERY YOUNG AGE AND MULTIPLE PRIMARY CANCERS IN THE SAME INDIVIDUAL.

OTHER NOTABLE SYNDROMES

SEVERAL OTHER HEREDITARY CANCER SYNDROMES EXIST, INCLUDING:

- FAMILIAL ADENOMATOUS POLYPOSIS (FAP) – LINKED TO COLORECTAL CANCER
- MULTIPLE ENDOCRINE NEOPLASIA (MEN) – ASSOCIATED WITH ENDOCRINE TUMORS
- VON HIPPEL-LINDAU DISEASE – RELATED TO KIDNEY CANCER AND OTHER TUMORS

GENETIC TESTING AND COUNSELING

PURPOSE OF GENETIC TESTING

GENETIC TESTING IDENTIFIES SPECIFIC INHERITED MUTATIONS THAT INCREASE CANCER RISK. IT ENABLES TARGETED SURVEILLANCE, EARLY INTERVENTION, AND INFORMED DECISION-MAKING REGARDING PREVENTION AND TREATMENT. TESTING IS ESPECIALLY RECOMMENDED FOR INDIVIDUALS WITH A STRONG FAMILY HISTORY OF CANCER OR THOSE DIAGNOSED AT A YOUNG AGE.

TYPES OF GENETIC TESTS

TESTS CAN RANGE FROM SINGLE-GENE ANALYSIS TO MULTI-GENE PANELS THAT EVALUATE MULTIPLE CANCER-RELATED GENES SIMULTANEOUSLY. ADVANCES IN NEXT-GENERATION SEQUENCING HAVE MADE MULTI-GENE PANELS MORE ACCESSIBLE AND COMPREHENSIVE.

ROLE OF GENETIC COUNSELING

GENETIC COUNSELING IS ESSENTIAL BEFORE AND AFTER TESTING TO HELP INDIVIDUALS UNDERSTAND THE IMPLICATIONS OF RESULTS, INCLUDING PSYCHOLOGICAL IMPACT, INSURANCE CONSIDERATIONS, AND FAMILY PLANNING. COUNSELORS ALSO ASSIST IN INTERPRETING TEST OUTCOMES AND RECOMMENDING APPROPRIATE FOLLOW-UP ACTIONS.

RISK FACTORS AND PREVENTION

INHERITED RISK FACTORS

INHERITED MUTATIONS THAT CAUSE HEREDITARY CANCER SYNDROMES ARE THE PRIMARY RISK FACTORS. FAMILY HISTORY OF SPECIFIC CANCERS, EARLY-ONSET CANCERS, AND MULTIPLE AFFECTED RELATIVES INCREASE SUSPICION FOR HEREDITARY CANCER RISK.

ENVIRONMENTAL AND LIFESTYLE INFLUENCES

ALTHOUGH HEREDITARY CANCER IS DRIVEN BY GENETICS, ENVIRONMENTAL AND LIFESTYLE FACTORS CAN MODIFY RISK. SMOKING, DIET, PHYSICAL INACTIVITY, AND EXPOSURE TO CARCINOGENS MAY EXACERBATE CANCER DEVELOPMENT EVEN IN GENETICALLY PREDISPOSED INDIVIDUALS.

PREVENTIVE MEASURES

PREVENTIVE STRATEGIES FOR INDIVIDUALS WITH HEREDITARY CANCER RISK INCLUDE:

- INCREASED SURVEILLANCE WITH REGULAR SCREENINGS SUCH AS MAMMOGRAMS, COLONOSCOPIES, OR MRIs
- RISK-REDUCING SURGERIES, FOR EXAMPLE, PROPHYLACTIC MASTECTOMY OR OOPHORECTOMY
- MEDICATIONS LIKE CHEMOPREVENTION AGENTS TO LOWER CANCER RISK
- LIFESTYLE MODIFICATIONS INCLUDING HEALTHY DIET AND EXERCISE

MANAGEMENT AND TREATMENT OPTIONS

SURVEILLANCE AND EARLY DETECTION

FOR THOSE WITH HEREDITARY CANCER SYNDROMES, TAILORED SCREENING PROTOCOLS ARE CRITICAL FOR EARLY DETECTION OF MALIGNANCIES. ENHANCED SURVEILLANCE OFTEN BEGINS EARLIER THAN STANDARD GUIDELINES AND OCCURS MORE FREQUENTLY TO CATCH CANCERS AT TREATABLE STAGES.

TARGETED THERAPIES

ADVANCES IN PRECISION MEDICINE HAVE LED TO TARGETED TREATMENTS THAT EXPLOIT SPECIFIC GENETIC MUTATIONS. FOR EXAMPLE, PARP INHIBITORS ARE EFFECTIVE IN TREATING CANCERS WITH BRCA MUTATIONS BY BLOCKING DNA REPAIR PATHWAYS IN CANCER CELLS.

SURGICAL AND MEDICAL INTERVENTIONS

RISK-REDUCING SURGERIES CAN SIGNIFICANTLY DECREASE CANCER INCIDENCE IN HIGH-RISK INDIVIDUALS. ADDITIONALLY, CHEMOTHERAPY, RADIATION, AND IMMUNOTHERAPY REMAIN IMPORTANT COMPONENTS OF TREATMENT, OFTEN TAILORED BASED ON GENETIC PROFILES AND TUMOR CHARACTERISTICS.

PSYCHOSOCIAL SUPPORT

LIVING WITH HEREDITARY CANCER RISK CAN BE CHALLENGING EMOTIONALLY AND PSYCHOLOGICALLY. SUPPORT SERVICES INCLUDING COUNSELING, SUPPORT GROUPS, AND EDUCATIONAL RESOURCES PLAY A VITAL ROLE IN COMPREHENSIVE CARE.

FREQUENTLY ASKED QUESTIONS

WHAT IS HEREDITARY CANCER?

HEREDITARY CANCER IS A TYPE OF CANCER THAT IS CAUSED BY INHERITED GENETIC MUTATIONS PASSED DOWN FROM ONE GENERATION TO ANOTHER, INCREASING AN INDIVIDUAL'S RISK OF DEVELOPING CERTAIN CANCERS.

WHICH CANCERS ARE MOST COMMONLY ASSOCIATED WITH HEREDITARY RISK?

BREAST, OVARIAN, COLORECTAL, PANCREATIC, AND PROSTATE CANCERS ARE AMONG THE MOST COMMON TYPES LINKED TO HEREDITARY GENETIC MUTATIONS.

WHAT GENES ARE MOST FREQUENTLY INVOLVED IN HEREDITARY CANCER?

BRCA1 AND BRCA2 ARE THE MOST WELL-KNOWN GENES ASSOCIATED WITH HEREDITARY BREAST AND OVARIAN CANCERS. OTHER GENES INCLUDE TP53, MLH1, MSH2, AND APC, WHICH ARE LINKED TO VARIOUS HEREDITARY CANCER SYNDROMES.

HOW CAN SOMEONE FIND OUT IF THEY HAVE A HEREDITARY CANCER RISK?

GENETIC COUNSELING AND TESTING CAN HELP IDENTIFY INHERITED MUTATIONS THAT INCREASE CANCER RISK. A HEALTHCARE PROVIDER CAN RECOMMEND TESTING BASED ON PERSONAL AND FAMILY MEDICAL HISTORY.

WHAT IS THE ROLE OF GENETIC COUNSELING IN HEREDITARY CANCER?

GENETIC COUNSELING HELPS INDIVIDUALS UNDERSTAND THEIR RISK OF HEREDITARY CANCER, INTERPRET GENETIC TEST RESULTS, AND MAKE INFORMED DECISIONS ABOUT PREVENTION AND MANAGEMENT.

CAN HEREDITARY CANCER BE PREVENTED?

WHILE HEREDITARY CANCER CANNOT ALWAYS BE PREVENTED, EARLY DETECTION THROUGH REGULAR SCREENING, LIFESTYLE CHANGES, AND PREVENTIVE MEASURES LIKE PROPHYLACTIC SURGERY CAN SIGNIFICANTLY REDUCE RISK.

HOW DOES HEREDITARY CANCER DIFFER FROM SPORADIC CANCER?

HEREDITARY CANCER RESULTS FROM INHERITED GENETIC MUTATIONS AND OFTEN AFFECTS MULTIPLE FAMILY MEMBERS, WHILE SPORADIC CANCER OCCURS DUE TO MUTATIONS ACQUIRED DURING A PERSON'S LIFETIME WITHOUT A FAMILY HISTORY.

ARE THERE SPECIFIC SCREENING RECOMMENDATIONS FOR PEOPLE WITH HEREDITARY

CANCER RISK?

YES, INDIVIDUALS WITH HEREDITARY CANCER RISK OFTEN FOLLOW ENHANCED SCREENING PROTOCOLS, SUCH AS EARLIER AND MORE FREQUENT MAMMOGRAMS, COLONOSCOPIES, OR MRIS, BASED ON THEIR SPECIFIC GENETIC MUTATIONS.

WHAT ADVANCES ARE BEING MADE IN THE TREATMENT OF HEREDITARY CANCERS?

TARGETED THERAPIES, SUCH AS PARP INHIBITORS FOR BRCA-MUTATED CANCERS, AND PERSONALIZED MEDICINE APPROACHES ARE ADVANCING THE TREATMENT OPTIONS FOR HEREDITARY CANCERS, IMPROVING OUTCOMES AND REDUCING SIDE EFFECTS.

ADDITIONAL RESOURCES

1. *HEREDITARY CANCER: RISK ASSESSMENT AND MANAGEMENT*

THIS COMPREHENSIVE GUIDE EXPLORES THE GENETIC BASIS OF HEREDITARY CANCERS, FOCUSING ON RISK ASSESSMENT, GENETIC COUNSELING, AND MANAGEMENT STRATEGIES. IT PROVIDES DETAILED INFORMATION ON COMMON HEREDITARY CANCER SYNDROMES SUCH AS BRCA-RELATED BREAST AND OVARIAN CANCER. CLINICIANS AND RESEARCHERS WILL FIND VALUABLE INSIGHTS INTO THE LATEST DIAGNOSTIC TOOLS AND PREVENTION OPTIONS.

2. *GENETICS AND HEREDITARY CANCER SYNDROMES*

THIS BOOK OFFERS AN IN-DEPTH REVIEW OF THE GENETIC MUTATIONS THAT LEAD TO HEREDITARY CANCER SYNDROMES. COVERING DISORDERS LIKE LYNCH SYNDROME AND FAMILIAL ADENOMATOUS POLYPOSIS, IT EXPLAINS HOW THESE CONDITIONS CONTRIBUTE TO CANCER DEVELOPMENT. IT ALSO DISCUSSES ADVANCES IN GENETIC TESTING AND PERSONALIZED TREATMENT APPROACHES.

3. *INHERITED CANCER RISK: CLINICAL AND MOLECULAR PERSPECTIVES*

FOCUSING ON BOTH CLINICAL PRESENTATIONS AND MOLECULAR GENETICS, THIS TEXT OUTLINES STRATEGIES FOR IDENTIFYING PATIENTS AT RISK FOR HEREDITARY CANCERS. IT HIGHLIGHTS THE ROLE OF NEXT-GENERATION SEQUENCING AND BIOMARKERS IN EARLY DETECTION. THE BOOK IS IDEAL FOR HEALTHCARE PROFESSIONALS INVOLVED IN ONCOLOGY AND GENETIC COUNSELING.

4. *MANAGING HEREDITARY BREAST AND OVARIAN CANCER*

THIS TITLE FOCUSES SPECIFICALLY ON HEREDITARY BREAST AND OVARIAN CANCER, DETAILING RISK FACTORS, GENETIC MUTATIONS, AND PREVENTATIVE MEASURES. IT EMPHASIZES THE IMPORTANCE OF SURVEILLANCE, PROPHYLACTIC SURGERIES, AND TARGETED THERAPIES. PATIENT CASE STUDIES ILLUSTRATE PRACTICAL APPLICATIONS OF CURRENT RESEARCH.

5. *THE ROLE OF GENETICS IN COLORECTAL CANCER*

DEDICATED TO HEREDITARY COLORECTAL CANCERS, THIS BOOK EXPLAINS GENETIC SYNDROMES SUCH AS LYNCH SYNDROME AND MUTYH-ASSOCIATED POLYPOSIS. IT DISCUSSES SCREENING PROTOCOLS, GENETIC COUNSELING, AND IMPLICATIONS FOR FAMILY MEMBERS. THE TEXT SERVES AS A RESOURCE FOR GASTROENTEROLOGISTS AND GENETICISTS.

6. *GENETIC COUNSELING IN HEREDITARY CANCER*

THIS PRACTICAL GUIDE FOCUSES ON THE COMMUNICATION SKILLS AND ETHICAL CONSIDERATIONS INVOLVED IN GENETIC COUNSELING FOR HEREDITARY CANCER. IT PROVIDES FRAMEWORKS FOR DISCUSSING RISK, TESTING OPTIONS, AND PSYCHOLOGICAL IMPACTS WITH PATIENTS. THE BOOK IS USEFUL FOR COUNSELORS, NURSES, AND PHYSICIANS ALIKE.

7. *HEREDITARY CANCER GENOMICS: FROM BENCH TO BEDSIDE*

COVERING THE LATEST GENOMIC TECHNOLOGIES, THIS BOOK BRIDGES BASIC RESEARCH WITH CLINICAL APPLICATION IN HEREDITARY CANCER. IT DESCRIBES HOW GENOMIC DATA CAN INFORM DIAGNOSIS, PROGNOSIS, AND PERSONALIZED TREATMENT. RESEARCHERS AND CLINICIANS WILL BENEFIT FROM ITS COMPREHENSIVE REVIEW OF CURRENT ADVANCES.

8. *PSYCHOSOCIAL ASPECTS OF HEREDITARY CANCER*

THIS WORK ADDRESSES THE EMOTIONAL AND SOCIAL CHALLENGES FACED BY INDIVIDUALS AND FAMILIES DEALING WITH HEREDITARY CANCER RISK. TOPICS INCLUDE COPING STRATEGIES, FAMILY DYNAMICS, AND SUPPORT SYSTEMS. IT UNDERLINES THE IMPORTANCE OF HOLISTIC CARE IN GENETIC RISK MANAGEMENT.

9. *PREVENTIVE STRATEGIES IN HEREDITARY CANCER SYNDROMES*

FOCUSING ON PREVENTION, THIS BOOK REVIEWS LIFESTYLE MODIFICATIONS, CHEMOPREVENTION, AND SURGICAL OPTIONS TO REDUCE CANCER RISK IN GENETICALLY PREDISPOSED INDIVIDUALS. IT ALSO HIGHLIGHTS PUBLIC HEALTH PERSPECTIVES AND

Hereditary Cancer

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hereditary cancer: Rare Hereditary Cancers Gabriella Pichert, Chris Jacobs, 2016-04-13 This book approaches the differential diagnosis and management of rare, hereditary cancer syndromes from a practical angle, addressing the issues pertinent to each tumour type as encountered by health professionals in their day-to-day practice. This book enables readers to correctly identify patients with rare cancer syndromes who would benefit from genetic counselling and testing, and provides the necessary knowledge for appropriate patient management and advising at-risk family members. It begins by describing recent advances in genetic testing for cancer-predisposing genes. Leading experts from Europe and Australia then offer detailed, up-to-date guidance on the diagnosis and management of a wide range of hereditary cancers. The concluding chapter examines the wider issues that are raised by genetic testing for rare cancer syndromes for patients, families and health professionals. This book is an invaluable source of information for all specialists involved in the care of such patients and their families.

hereditary cancer: *Hereditary Gynecologic Cancer* Karen H. Lu, 2008-08-26 *Hereditary Gynecologic Cancer: Risk, Prevention and Management* fills the need that exists for a book addressing highly relevant clinical issues associated with the new field of hereditary gynecologic cancers. Written with the clinician in mind, the authors will cover a broad range of topics, beginning with an overview discussing clinical relevance

hereditary cancer: Hereditary Factors in Carcinoma Henry T. Lynch, 2014-10-05 The writing of this monograph was stimulated on the one hand by experience gained in the study of cancer families, and on the other, by the frequent perplexed and bewildered comments made by numerous physicians who have expressed amazement that we could think that cancer is hereditary. In reviewing the world literature it became immediately apparent that no compendium on the

subject of cancer genetics was available to the physician or research scientist. Therefore this monograph has been written for the following reasons: 1) To illuminate the problem for those who may have missed or ignored the evidence supporting a genetic etiology for certain malignant neoplasms; 2) to supply useful information to all practicing physicians regarding genetic risks to their patients; and 3) to provide new thoughts on the subject for use by cancer investigators. Finally, our paramount hope is that information gleaned through the reading of this monograph may contribute to the early diagnosis of cancer in members of high risk cancer families.

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hereditary cancer: Cancer Genetics and Genomics for Personalized Medicine Il-Jin Kim, 2017-04-11 This book covers almost all fields of cancer genetics and genomics for personalized medicine. Targeted therapy, or precision medicine, or personalized medicine is becoming a standard treatment for many diseases, including cancer. However, how much do we know about the personalized medicine approach? This lucid book helps undergraduate and graduate students, professional researchers, and clinicians to better understand the key concept of personalized medicine. The most up-to-date topics on personalized medicine in this book cover the recent trends in and updates on lung, gastric, liver, breast, and other types of cancers. Circulating tumor cell, cell-free circulating DNA, and microRNAs are discussed as new diagnostic and prognostic markers for cancer. The avastin mouse model is also discussed for maximizing treatment efficacy and prognosis prediction, and so is microenvironment as a drug resistance mechanism. With classical and new pathological approaches, the book provides a systemic overview of personalized immunotherapies and hyperthermic intraperitoneal chemotherapy, followed by new emerging fields of hereditary cancer, thereby equipping readers to eventually contribute in developing more

advanced tools and therapies for curing cancer.

hereditary cancer: *Encyclopedia of Hereditary Cancer* John W. Henson, 2024-06-21 The Hereditary Cancer Reference gives insight to the young and rapidly expanding field that combines oncology and genetics to achieve risk reduction, early detection, family risk management, and identification targeted treatments. While genetics and oncology are both well-developed knowledge areas, their combination in hereditary cancer yields an opportunity for new works that systemize knowledge for current researchers, practitioners and students. The Hereditary Cancer Reference exams 371 topics through the lens of hereditary cancer. There are no similar books that presents information in this manner. This reference work contains a complete list of terms and definitions which can be easily reference by researchers and clinicians working in this field that need to keep up to date. - Provides conceptual and factual treatments of 371 topics in hereditary cancer - Gives quick access to a comprehensive guide on Hereditary Cancer - Useful reference for researchers and clinicians

hereditary cancer: *Cancer Family* C. Richard Boland MD, 2015-08-30 It is 1946, and a young man stares out his third-story apartment window. He has returned from the war with metastatic cancer and assumes he will die, leaving his wife and infant daughter behind. Instead, he lives another twenty-four years, raising a family of four children, before he succumbs to a second colon cancer. His son, the author, recognizes that there is a hereditary cancer syndrome in the family and resolves to solve the problem as a medical researcher. Eventually, hereditary colorectal cancer is recognized as a medical entity, and multiple genes responsible for this hereditary condition are isolated. However, the mutation responsible in the authors family escaped detection. In 2001, his laboratory identifies the mutation responsible for the problem and develops a specific test for the family. This permits the mutation carriers to obtain life-saving care, altering the natural history of the disease for his family and others.

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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.

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diagnostically significant factors - Features time-saving bulleted text, key facts in each chapter, an extensive index, and numerous tables for quick reference and thorough understanding

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