

Cognitive functioning during long-term tamoxifen treatment in postmenopausal women with breast cancer

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Abstract

Objective: Endocrine therapy is widely used—often for many years—in women with breast cancer. Yet little is known about cognitive functioning after long-term use of tamoxifen. We examine cognitive sequelae, approximately 3 years after diagnosis, in postmenopausal women with breast cancer who were treated with adjuvant tamoxifen.

Methods: Data from participants who underwent surgical operation with or without radiotherapy, participants who received adjuvant tamoxifen, and healthy controls were collected. Neuropsychological tests were administered, and participants completed questionnaires on health-related quality of life (Quality of Life Questionnaire Core 30 and Breast Cancer–Specific Quality-of-Life Questionnaire), menopausal symptoms (Functional Assessment of Cancer Therapy—Breast endocrine symptom subscale), and anxiety and depression (Hopkins Symptom Checklist).

Results: In total, 107 women participated (adjuvant tamoxifen group, $n = 20$; surgical operation/radiotherapy group, $n = 43$; healthy control group, $n = 44$). Women in the adjuvant tamoxifen group had received tamoxifen for a mean (SD) of 31.5 (18.6) months (range, 15–79 mo) and performed worse on verbal memory than the surgical operation/radiotherapy group ($P < 0.05$) and the healthy control group ($P < 0.05$). Participants in the adjuvant tamoxifen group performed worse on measures of fluency than healthy controls ($P < 0.05$). Furthermore, women in the adjuvant tamoxifen group reported worse cognitive functioning ($P < 0.05$) than women in the surgical operation/radiotherapy group or the healthy control group.

Conclusions: Our results provide insights into cognitive functioning in women who receive long-term adjuvant tamoxifen treatment. By adding the surgical operation/radiotherapy group, we could control for the mental and physical influences of the diagnosis and treatment of breast cancer. Cognitive domains that rely on verbal abilities (verbal memory and fluency) seem to be at risk for deterioration after treatment with tamoxifen.

Key Words: Tamoxifen – Cognition – Postmenopausal – Breast cancer.

With increased survival, cognitive functioning after breast cancer therapy becomes of greater importance to the well-being of women. In postmenopausal women, approximately 75% of breast tumors are hormone-sensitive.¹ In this group of women, endocrine therapy is widely used and often prescribed for many years.

Endocrine therapy aims to inhibit the growth of estrogen receptor (ER)-positive tumors by inhibiting or blocking estrogen. This can be achieved by administering either selective ER modulators (SERMs), which allow selective inhibition or stimulation of estrogen-like action in various tissues, or aromatase

inhibitors (AIs), which block the synthesis of estrogen, thus lowering estrogen levels. These endocrine therapies may be provided in a switch schedule (initially SERMs for a number of years followed by an AI up to a total of 5–7 y of endocrine therapy).^{2,3} Common adverse effects of endocrine therapy, such as hot flashes and mood disturbances, are related to estrogen deprivation.⁴ Increasing evidence suggests that estrogens play a role in cognitive functioning.⁵ Although the mechanisms of action of estrogens on the brain are not entirely understood, neuroscientific studies indicate that estrogens exert neurotrophic and neuroprotective actions.⁶ Estrogens seem to favor differentiation and survival by acting through ERs,⁷ but estrogens also act through membrane receptors to influence the functioning of the brain.⁸ These ERs are present in structures that are important for cognitive functioning, such as the frontal lobe and the hippocampus.⁹ Therefore, it is biologically plausible that endocrine therapy could affect cognitive functioning. Moreover, because estrogen is known to interact with the cholinergic system,¹⁰ it seems probable that cognitive functions such as attention, verbal learning, and memory may be particularly vulnerable.

Although much is already known about the cognitive effects of chemotherapy,¹¹ many women with breast cancer receive

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Long Term Tamoxifen Treatment For Breast Cancer

Jeffrey K. Aronson



Long Term Tamoxifen Treatment For Breast Cancer:

Long-term Tamoxifen Treatment for Breast Cancer Virgil Craig Jordan, 1994 During the past twenty years tamoxifen has become the most widely prescribed and most successful drug used in the treatment of breast cancer In this volume editor V Craig Jordan provides articles that trace the development pharmacology and clinical research surrounding this drug which by the year 2000 could be used to treat as many as one million women annually Drawing from research conducted by specialists in the United States the United Kingdom and Italy the series of articles describes the clinical testing of tamoxifen highlighting the benefits Studies show that tamoxifen lowers cholesterol and can potentially protect women against osteoporosis and fatal coronary heart disease Equally important is a discussion of side effects and possible drug interactions and how these issues relate to patient concerns An investigation of the development of a new class of drugs for use after tamoxifen fails provides valuable insight into future treatments as the contributors consider possible resistance to tamoxifen This volume provides invaluable information for physicians and surgeons who care for patients with breast cancer and for women interested in exploring this therapeutic dimension **Tamoxifen and Breast Cancer** Michael W.

DeGregorio, Valerie J. Wiebe, 1999-01-01 A discussion of the diagnosis of breast cancer and the risks benefits and limitations of treatment alternatives particularly tamoxifen This edition contains information on developments in the use of tamoxifen especially in the results of the Breast Cancer Prevention Trial *Treatment of the Postmenopausal Woman* Rogerio A. Lobo, 2007-06-05 For anyone who treats postmenopausal women this latest edition of Rogerio Lobo s classic work combines the best from two well known references Menopause and the second edition of Treatment of the Postmenopausal Woman By adding significant discussions of the basic science behind menopause it is possible to objectively assess the clinical value and limitations of current approaches to treatment and provide a basis and rationale for strategies that will result in better individualized and specialized care Not only does the third edition discuss diagnosis and treatment of menopause but it covers biological anatomical physiological pathobiological and pharmacological aspects as well bringing together in one source all of the information needed to understand and treat postmenopausal conditions Over 50% new material representing the vast amount of information available since the Women s Health Initiative WHI clinical trials were completed making this the most up to date reference on postmenopausal women Includes several new sections on comparisons between clinical trials and observational data urology and pelvic support Each section is preceded by a preface to put the area into context with many chapters having suggested treatment regimens **Biological and Hormonal Therapies of Cancer** Kenneth A.

Foon, Hyman B. Muss, 1998-01-31 This volume Biological and Hormonal Therapies of Cancer which is part of the series Cancer Treatment and Research presents selected new information concerning biologic and hormonal therapy of cancer We have attempted to provide the reader with topics of major interest in a timely fashion There is renewed interest in biologic therapy of cancer Two chapters review the role of interferon in the hematologic malignancies and in solid tumors Vaccine

therapies have come to the forefront of cancer therapy recently and two chapters approach different strategies of vaccine therapies one reviews the cellular vaccine therapies and another the anti idotype approach The hormonal therapy chapters focus on current uses of endocrine therapy in endometrial breast and prostate cancer In addition hormonal strategies for the prevention of breast cancer and endometrial cancer including exciting information relating to phytochemicals are presented The effects of tamoxifen on endometrium is a topic of major interest and is discussed in detail Finally there is a chapter on estrogen receptor expression and regulation in human breast cancer These chapters are all written by experts in the field and contain timely and relevant information of interest to laboratory and clinical scientists and practitioners alike Biologic and endocrine therapies represent major areas of cancer research interest The advent of newer biologic therapies including new antibody targeted treatments and the use of biologics as tumor modulators to enhance the effects of other treatment regimens is an exploding avenue of research

Tamoxifen Tales V. Craig Jordan, 2022-01-12 Tamoxifen Tales Suggestions for Scientific Survival presents a case study describing the academic journey of teams behind major advances in medical sciences highlighting lessons learned that are applicable to the next generation of scientists This book provides a manual on the successful mentoring of young scientists including stories describing how training experience shaped careers to become leaders in academia and the pharmaceutical industry The book documents Professor V Craig Jordan's 50 year career in medical sciences that led to the discovery and development of Selective Estrogen Receptor Modulators SERMs which became the standard of women's healthcare around the world Additionally it illustrates the versatility of a scientist with a commitment to serving societies This important resource will be a useful and interesting book for established medical scientists research mentors and advanced students wanting to chart a successful and impactful research career Highlights lessons learned from the journey behind discovery science that are applicable to the scientific journey of the next generation of scientists Provides a manual on the successful mentoring of young scientists to become leaders in academia and the pharmaceutical industry Examines cancer treatment based on a personal determination to challenge at the frontiers of the science and to relate to personal life experience Includes references for further research reading Journal of the National Cancer Institute ,1990

Drug Therapy in Nursing Diane S. Aschenbrenner, Samantha J. Venable, 2009 This text presents a totally nursing focused framework for teaching and learning nursing pharmacology and places the patient at the center of all drug administration decisions and considerations The book presents core drug knowledge using prototypes of different drug classes and emphasizes core patient variables that influence the patient's response to therapy This thoroughly updated Third Edition covers newly approved drugs has separate chapters on drugs affecting fungal and viral infections and includes more pathophysiology information FDA Black Box warnings have been added to the discussion of each prototype when applicable and safety alerts have been added to emphasize prevention of common medication errors A companion Website offers student and instructor ancillaries including NCLEX style questions pathophysiology animations medication

administration videos and dosage calculation quizzes Cumulated Index Medicus ,1999 *Holland-Frei Cancer Medicine* 8 James F. Holland,2010 Holland Frei Cancer Medicine serves as a quick reference to current information on an extensive list of cancers including breast lung thyroid colorectal ovarian prostate and gastric cancer to name but a few Presented as an accessible pocket sized handbook the chapters are organized in an outline format offering only the most essential information on the etiology staging including TNM staging and treatment for each cancer type Individual chapters are devoted to the molecular biology of cancer cancer prevention cancer screening the mechanisms of chemotherapy and diagnostic imaging in cancer Additionally each chapter lists all the major phase III clinical trials and therefore serves as an excellent reference of the major randomized controlled trials for each cancer reported to date Specific chapters are also dedicated to the discussion of oncologic emergencies pain and palliation and prescription complications At the conclusion of the book a glossary of oncologic terms and chemotherapeutic drug programs a table of common cancer incidences and an overview of the mechanisms common uses and related toxicities of various anti cancer agents are featured In addition performance status tables mathematical formulas and a listing of common biomedical cancer web sites are highlighted Clinical Ocular Toxicology E-Book Frederick T. Fraunfelder,Frederick W. Fraunfelder,Wiley A. Chambers,2008-06-12 Written by international authorities in ocular toxicology including the Founder of The National Registry of Drug Induced Side Effects and its current Director this essential resource provides the clinically relevant information you need to effectively diagnose and manage herbal chemical and drug related ocular problems Comprehensive coverage of all drugs generic and trade drug names primary uses ocular and systemic side effects and clinical significance make this book like its best selling predecessor Drug Induced Ocular Side Effects the ideal reference for quick on the spot consultation Leaders in the field provide need to know information on all aspects of ocular toxicology all in one concise reference Data from the National Registry of Drug Induced Ocular Side Effects Casey Eye Institute Portland OR and the World Health Organization Uppsala Sweden help you recognize and avoid drug induced ocular side effects A highly templated format makes retrieval of essential knowledge quick and easy A wealth of full color photographs provide vivid visual diagnostic guidance The latest information on approved medications helps you stay up to date and provide state of the art care Extensive coverage of principles of therapy ocular drug delivery methods to evaluate drug induced visual side effects and the role of electrophysiology and psychophysics gives you the knowledge you need to manage any challenge in ocular toxicology Authoritative guidance on ocular drugs and their use in pregnancy helps you safely manage the unique needs of these patients The inclusion of the WHO classification system helps you determine whether a particular side effect is certain probable or likely to occur Meyler's Side Effects of Endocrine and Metabolic Drugs Jeffrey K. Aronson,2009-02-21 Elsevier now offers a series of derivative works based on the acclaimed Meylers Side Effect of Drugs 15th Edition These individual volumes are grouped by specialty to benefit the practicing physician or health care clinician Endocrine and metabolic diseases are common includes diseases such as

diabetes thyroid disease and obesity Endocrinologists including diabetes professionals internal medicine and primary care practitioners obstetricians and gynecologists and others will find this book useful when treating endocrine or metabolic diseases The material is drawn from the 15th edition of the internationally renowned encyclopedia Meyler's Side Effects of Drugs and the latest volumes in the companion series Side Effects of Drugs Annuals Drug names have usually been designated by their recommended or proposed International Nonproprietary Names rINN or pINN when those are not available clinical names have been used In some cases brand names have been used This volume is critical for any health professional involved in the administration of endocrine and metabolics mediations Surpasses the Physician's Desk Reference by including clinical case studies and independent expert analysis Complete index of drug names Most complete cross referencing of drug drug interactions available Extensive references to primary and secondary literature Also includes information on adverse effects in pregnancy The book is divided into eight sections Corticosteroids and related drugs Prostaglandins Sex hormones and related drugs Iodine and drugs that affect thyroid function Insulin and other hypoglycemic drugs Other hormones and related drugs Lipid regulated drugs Endocrine and metabolic adverse effects of non hormonal and non metabolic drugs

Cardiotoxicity of Non-Cardiovascular Drugs Giorgio Minotti, 2010-03-25 Some drugs which are not aimed at treating heart disease have nevertheless been found to have profound effects on heart muscle Cardiotoxicity is one of the major forms of toxicity seen in drugs and it accounts for most drug recalls and delays experienced in regulatory approvals In recent years a number of non cardiac blockbuster drugs such as terfenadine have been withdrawn from major markets because of cardiotoxicity concerns while other drugs have either been withdrawn prior to marketing or required labelling changes that significantly restricted their use In *Cardiotoxicity of Non Cardiovascular Drugs* international experts describe the molecular mechanisms and clinical read outs of cardiac events induced by a broad variety of noncardiovascular drugs Particular emphasis is paid to the preclinical screening of drug cardiotoxicity Topics include metabolic targets of cardiotoxicity regulatory aspects translating molecular mechanisms into clinical trials structure activity relationships in arrhythmias by antihistamines and psychoactive drugs cardiovascular toxicity of antitumor drugs cardiovascular toxicities of non steroidal anti inflammatory drugs cardiovascular toxicities of antiretroviral therapies *Cardiotoxicity of Non Cardiovascular Drugs* is an essential guide to this important area of drug development It will find a place on the bookshelves of researchers regulators and students in medicinal chemistry drug development pharmacology pharmacy and cardiovascular disease

Meyler's Side Effects of Drugs Jeffrey K. Aronson, 2015-10-15 *Meyler's Side Effects of Drugs The International Encyclopedia of Adverse Drug Reactions and Interactions* Sixteenth Edition Seven Volume Set builds on the success of the 15 previous editions providing an extensively reorganized and expanded resource that now comprises more than 1 500 individual drug articles with the most complete coverage of adverse reactions and interactions found anywhere Each article contains detailed and authoritative information about the adverse effects of each drug with comprehensive references to the

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Comprehensive Geriatric Oncology Lodovico Balducci,Gary H. Lyman,William B. Ershler,Martine Extermann,2004-03-01 Published in 2004 This new edition of *Comprehensive Geriatric Oncology* still offers an exhaustive review of the biology of cancer and aging of the epidemiologic trends in the country and in the world and of the clinical trials that concern cancer prevention and cancer treatment in the elderly *Comprehensive Geriatric Oncology, Second Edition* Lodovico Balducci,William B. Ershler,Gary H. Lyman,Martine Extermann,2004-11-26 The prevention and treatment of cancer in older patients requires an individualized approach as age causes unpredictable results from patient to patient Completely revised and updated the Second Edition of *Comprehensive Geriatric Oncology* enables clinicians to choose the best possible cancer care Highlighting newly emerging issues in geriatric oncology it helps physicians promote cancer prevention Like its groundbreaking bestselling predecessor this new edition exhaustively reviews the biology of cancer and aging epidemiologic trends and clinical trials that concern cancer prevention and treatment in the elderly New chapters contain material on topics such as assessment fragility symptom management and emergencies and studies the effectiveness of training programs in geriatric oncology The book addresses issues of healthcare delivery including cost and evaluation of utility and outcome suggests new research approaches reviews existing guidelines for the prevention and treatment of cancer in the elderly and more Providing a frame of reference for the ongoing dialogue in the field of geriatric oncology this is a major reference work for basic population and clinical scientists interested in the issue and for practices ministering to older patients

Cancer Chemotherapy and Biotherapy Bruce A. Chabner,Dan L. Longo,2011-12-07 Updated to include the newest drugs and those currently in development this Fifth Edition is a comprehensive reference on the preclinical and clinical pharmacology of anticancer agents Organized by drug class the book provides the latest information on all drugs and biological agents their mechanisms of action interactions with other agents toxicities side effects and mechanisms of resistance The authors explain the rationale for use of drugs in specific schedules and combinations and offer guidelines for dose adjustment in particular situations This edition s introduction includes timely information on general strategies for drug usage the science of drug discovery and development economic and regulatory aspects of cancer drug

development and principles of pharmacokinetics Eight new chapters have been added and more than twenty have been significantly revised A companion website includes the fully searchable text and an image bank **Yen and Jaffe's Reproductive Endocrinology** Jerome Frank Strauss,Robert L. Barbieri,2009-01-01 Thoroughly revised and now enhanced with color artwork this new edition offers the latest information on the diagnosis and management of reproductive endocrine disorders As an Expert Consult title it includes convenient online access to the complete text of the book along with all of the images and references linked to Medline *Yen & Jaffe's Reproductive Endocrinology E-Book* Jerome F. Strauss,Robert L. Barbieri,2013-08-28 Yen ovarian tissue banking cryopreservation pre implantation genetic diagnosis ovulation induction and risks and treatments for steroid hormone responsive cancers View basic anatomic structures endocrine processes and cell function and dysfunction with absolute clarity through full color illustrations and new images throughout Confidently perform procedures through expanded coverage of reproductive and infertility surgery Apply the latest reproductive endocrinology advances in basic and clinical science including molecular cellular and genetic concepts and grasp their relevance to pathophysiology diagnosis and therapy Maximize fertility in women and men undergoing chemotherapy and other cancer treatments and counsel patients on environmental factors affecting reproduction Stay on top of recent developments including the impact of obesity on fertility ovarian tissue banking cryopreservation pre implantation genetic diagnosis ovulation induction and risks and treatments for steroid hormone responsive cancers View basic anatomic structures endocrine processes and cell function and dysfunction with absolute clarity through full color illustrations and new images throughout Screening and Preventive Diagnosis with Radiological Imaging Maximilian F Reiser,Gerhard van Kaick,Christian Fink,S.O. Schoenberg,2008-01-03 This book provides clinicians with a broader understanding of screening and preventive diagnosis using radiological imaging The first part of the book is dedicated to the fundamentals of screening and preventive diagnosis The second part of the book discusses the most important practical examples of radiological screening and surveillance both for unselected populations as well as for individual risk groups *Yen & Jaffe's Reproductive Endocrinology* Jerome F. Strauss, III MD, PhD,Robert L. Barbieri, MD,2013-09-13 Yen Jaffe s Reproductive Endocrinology helps you successfully diagnose and manage the spectrum of female and male reproductive system diseases from impaired fertility infertility and recurrent pregnancy loss through problems of sexual development puberty menstrual disturbances fibroids endometriosis and reproductive aging This trusted endocrinology reference book is ideal for fellows endocrinologists or as a quick reference when making daily diagnostic and therapeutic decisions It is just the resource you need to offer your patients the best possible reproductive care This new edition helps the reader to stay on top of recent developments It is a must for subspecialists in reproductive medicine and a valuable source of information in the library of any department and clinical unit involved in reproductive medicine Reviewed by Acta Obstetricia et Gynecologica Scandinavica February 2015 It is a must for subspecialists in reproductive medicine and a valuable source of information in

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