

Lamotrigine Update and Its Use in Mood Disorders

Stephen C Hurley

OBJECTIVE: To provide a qualitative, systematic update and review of the pharmacology, pharmacokinetics, efficacy in mood disorders, adverse effects, and costs of lamotrigine.

DATA SOURCES: Citations obtained from MEDLINE searches (1965–September 2001) using lamotrigine as a text word, articles identified in reference lists of pertinent articles, abstracts presented at conferences, and research data from GlaxoSmithKline.

DATA EXTRACTION: English-language articles were considered for possible inclusion. Each title and abstract was examined to determine whether the publication contained up-to-date information relevant to the objective. Twenty clinical trials that provided data on response rates in mood disorders were tabulated.

DATA SYNTHESIS: Lamotrigine's primary action is to modulate voltage-gated sodium channels. Evidence suggests that it decreases glutamate transmission, directly reduces calcium influx, mildly blocks transmitter reuptake, and alters intracellular mechanisms of resting transmitter release. The average half-life of lamotrigine is approximately 24 hours, but decreases to approximately 7.4 hours when used concurrently with phenytoin, and increases to approximately 59 hours with valproic acid. Seven of the 20 clinical trials were randomized, double-blind, and controlled. Existing data are inadequate to evaluate lamotrigine use in major depression. The pooled response rates for patients with depressed, manic, mixed, and rapid cycling bipolar disorder were similar, ranging from 52% to 63%. Adverse effects are infrequent when the drug is used alone, but become more frequent when lamotrigine is combined with other anticonvulsants. While most rashes are mild, approximately 1 in 500 patients develops exfoliative dermatitis. A slow upward dose titration is recommended to reduce the incidence of serious rash, but this may delay the attainment of adequate dosage for 6 weeks. Lamotrigine has positive effects on cognitive function, but occasionally produces insomnia. Lamotrigine costs 2–4 times more than lithium, carbamazepine, and generic valproic acid.

CONCLUSIONS: When efficacy, adverse effects, and cost are considered, lamotrigine should probably be reserved as a second-line agent for bipolar depression.

KEY WORDS: lamotrigine, mood disorders.

Ann Pharmacother 2002;36:860–73.

THIS ARTICLE IS APPROVED FOR CONTINUING EDUCATION CREDIT.

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Although a number of medications have been successfully used for mood stabilization, the need for better outcomes was emphasized in a recent prospective study.¹ Eighty-two patients, diagnosed with bipolar disorder and maintained on lithium, carbamazepine, or valproic acid, were evaluated after an average follow-up of 4.2 years. During this period, 68% of the patients experienced 2 or more relapses. Kaplan-Meier survival analysis indicated that the probability for a recurrence of mania or depression within 1 year was 37%.

Since carbamazepine and valproate are antiepileptic drugs (AEDs), it is not surprising that newly developed seizure medications are studied for their effects on mood.

Lamotrigine is one of the newer AEDs for partial epilepsy. In 1993, a battery of psychological tests designed to measure drug effects on health-related quality of life found little difference between lamotrigine and placebo.² However, patient scores on the Affect Balance (or happiness) scale, which is designed to measure positive aspects of mental health, increased by 94% ($p = 0.003$). The next year, an abstract³ presented at the annual meeting of the American Psychiatric Association reported that lamotrigine produced sustained clinical improvement in 2 patients with refractory bipolar disorder. In the ensuing years, a number of reports have been published on lamotrigine treatment of mood disorders.

Lamotrigine was available in 12 other countries before it was approved by the Food and Drug Administration in December 1994. At this time, >1 million patients have

Author information provided at the end of the text.

Research In Mood Disorders An Update

**Gin S. Malhi, Marc Masson, Frank
Bellivier**



Research In Mood Disorders An Update:

Research in Mood Disorders Hanns Hippus,Franz Müller-Spahn,1994 This book is about depression it critically reviews both the latest results and the most recent advances in clinical therapy techniques The first part of the book provides a clear and concise overview of all the important new results concerning the course of affective psychoses discussing them against the background of comprehensive and quite interesting genetic studies The pathogenetic findings provide the framework for presenting recent studies on chronobiology neuroendocrinology and personality research The second part of the book provides a clearly structured overview of the most effective forms of clinical therapy for depressive disorders known to date The focus here is on practical cognitive and pharmacological approaches especially in the context of therapy resistance Also featured are the latest results concerning electroconvulsive therapy The editors themselves world class authorities in this field have brought together a group of internationally renowned experts to make this book as solid practical and interesting as possible for clinicians looking to improve their skills as therapists and also for students and researchers wanting to keep up on the most effective techniques This volume appears under the auspices of the International PTD Committee

Genetics and Epigenetics of Psychiatric Diseases, 2nd Edition Cunyou Zhao, Weihua Yue, Zhexiong Wen, 2020-10-09 Psychiatric diseases have a highly complex etiology aggregating in families but not segregating in a traditional Mendelian manner Recent approaches to understanding the causes of psychiatric disease have focused on describing the genetic contribution to major psychiatric illnesses the use of large scale genome wide association studies GWAS and exome sequencing has enabled a systematic exploration of genetic risk factors and identified over 100 independent genomic loci significantly associated with psychiatric diseases however there remains uncertainty about the causal genes involved in disease pathogenesis and how their function is regulated Since many GWAS variants reside in non coding regions the disease associated common variants might be enriched in regulatory domains including enhancers and regions of active chromatin state These lead us to focus on the possible role of non sequence based genomic variation in health and disease Of particular interest are epigenetic modifications that regulate gene expression through modifications to DNA RNA histone proteins and chromatin The availability of high throughput profiling methods for quantifying epigenomic modifications in large numbers of samples has enabled us to perform epigenome wide association studies EWAS aimed at screening methylomic variations associated with environmental exposure and disease Thus systematic integration of genetic epigenetic and epidemiological approaches will contribute to improving our understanding of the molecular mechanisms underlying disease phenotypes

The Oxford Handbook of Mood Disorders Robert J. DeRubeis, Daniel R. Strunk, 2017-04-24 The most comprehensive volume of its kind The Oxford Handbook of Mood Disorders provides detailed coverage of the characterization understanding and treatment of mood disorders Treatment-resistant Mood Disorders Andre Carvalho, Roger S. McIntyre, 2015 Treatment resistant major depression and bipolar disorder are highly prevalent and disabling conditions associated with substantial

morbidity and mortality Providing a concise view of the current definitions assessment and evidence based management of such disorders this work reviews novel therapeutic targets which may enhance the future therapeutic armamentarium of clinicians *Clinical Handbook for the Management of Mood Disorders* J. John Mann,Patrick J. McGrath,Steven P. Roose,2013-05-09 This Clinical Handbook for the Management of Mood Disorders will equip clinicians with the knowledge to refine their diagnostic skills and implement treatment plans for mood disorders based on the most up to date evidence on interventions that work Covering the widest range of treatments and techniques it provides clear guidance for the management of all types and subtypes of both minor and major depression Chapters cover the latest and most innovative treatments including use of ketamine deep brain stimulation and transcranial magnetic stimulation effective integration of pharmacological and psychotherapeutic approaches as well as providing a thought provoking look at the future research agenda and the potential for reliable biomarkers This is the most comprehensive review of depression available today Written and edited by leading experts mostly from Columbia University this is an essential resource for anyone involved in the care and treatment of patients with mood disorders **Abnormal Psychology** Ann M. Kring,Sheri L. Johnson,2018-01-09 Abnormal Psychology The Science and Treatment of Psychological Disorders consists of a balance and blending of research and clinical application the use of paradigms as an organizing principle and involving the learner in the kinds of real world problem solving engaged in by clinicians and scientists Students learn that psychopathology is best understood by considering multiple perspectives and that these varying perspectives provide the clearest accounting of the causes of these disorders as well as the best possible treatments **Psychology in Modules** David G. Myers,C. Nathan DeWall,2015-01-12 In this version of Psychology Twelfth Edition David Myers and Nathan DeWall break down the new edition s 16 chapters into 53 modules assignable in any sequence and brief enough to be read in one sitting It s a format favored by a wide range of students and instructors one that s supported by substantial research showing that students working with shorter reading assignments develop a deeper understanding of the material The new edition of Modules includes the same new features and content of Psychology Twelfth Edition including hundreds of new citations and new infographics And like Psychology Twelfth Edition is more than ever a fully integrated text media learning package with the modular edition s LaunchPad now featuring dozens of new Concept Practice activities **Clinical Trial Design Challenges in Mood Disorders** Mauricio Tohen,Charles Bowden,Andrew A. Nierenberg,John Geddes,2015-01-24 Poor clinical trial designs result in failed studies wasting research funds and limiting the advancement of cures for disorders Clinical Trial Design Challenges in Mood Disorders outlines classic problems researchers face in designing clinical trials and discusses how best to address them for the most definitive and generalizable results Traditional trial designs are included as well as novel analytic techniques The book examines information on high placebo response the generalizability of studies conducted in the developing world the duration of maintenance studies and the application of findings into clinical practice With representation from contributors

throughout the world and from academia industry regulatory agencies and advocacy groups this book will contribute toward improved clinical trial design and valid precise and reliable answers about what works better and faster for patients Summarizes common trial design problems and their solutions Encompasses funding subject selection regulatory issues and more Identifies best practices for definitive and generalizable results Includes traditional trial designs and novel analytic techniques Represents academia industry regulatory agencies and advocacy groups **Clinical Textbook of Mood**

Disorders Allan Young,Marsal Sanches,Jair C. Soares,Mario Juruena,2024-05-23 A comprehensive overview of the research status diagnosis and management of mood disorders including depression and bipolar disorder Neuroprogression in

Psychiatric Disorders A. Halaris,B. E. Leonard,2017-07-25 In this volume international experts critically review cutting edge advances in neuroprogression research The relevance of these findings to psychiatric and neurological disorders is clarified Potential etiopathological mechanisms of neuroprogression are described in detail Special emphasis is placed on the role of the immune system in stress and stress related disorders and brain immune interactions The epigenetic consequences of adverse experiences in early childhood which may prelude major psychiatric disorders are also considered Recent research has not only provided evidence of neuroprogression in psychiatric and neurological disorders but has shown that pharmacologic interventions have the potential to arrest this process Advances in testing and imaging will lead to timely diagnosis and earlier treatment Identification of neurological mechanisms alongside epi genetic vulnerability markers will create truly personalized treatment programs This book is a valuable resource for everyone who wishes to gain insight into the essential features of the neuroprogressive course of major psychiatric and neurological disorders In particular psychiatrists neuroscientists and neurologists as well as immunologists pharmacologists and molecular biologists will find very informative chapters of direct relevance to their field **Handbook of Diagnosis and Treatment of Bipolar**

Disorders Terence A. Ketter,2009-08-26 This readable guide to the assessment and management of patients with bipolar disorder can help physicians keep abreast of dramatic and rapid advances of recent years and integrate them into their practice Handbook of Diagnosis and Treatment of Bipolar Disorders emphasizes recent controlled studies and FDA approved indications and translates these data into the real world of clinical practice The contributions of the eleven chapter authors from Stanford University reflect more than a decade of clinical research and treatment undertaken at that institution including advances in diagnosis and interventions supported by controlled studies They provide crucial information regarding diagnosis pharmacotherapy psychotherapy and treatment of patients from special populations such as children women and older adults and patients with particular challenging illness course such as rapid cycling This is the first book to provide quantitative assessment of potential benefit number needed to treat and risk number needed to harm for all approved treatments for bipolar disorder providing clinicians with information needed to balance benefits and risks in order to render individualized state of the art evidence based care It describes all FDA approved indications reviewing efficacy safety

tolerability pharmacokinetics illness phase specific dosing and drug interactions A chapter on multiphase treatment strategy explains crucial illness transition points and describes how these have been integrated with knowledge of illness phase in mood disorders The book then demonstrates the relevance of this approach to therapeutics by providing An overview of pharmacotherapy that covers the emergence of evidence based pharmacotherapy and number needed to treat and harm analyses Guidelines to managing acute manic and mixed episodes that include evidence based assessments of lithium divalproex carbamazepine and second generation antipsychotics Coverage of acute major depressive episodes in bipolar disorders that outlines four tiers of treatment for this most pervasive illness phase with the fewest approved treatments Discussion of the longer term management of bipolar disorders including reviews of controlled trials of recently approved pharmacotherapies such as lamotrigine olanzapine aripiprazole and adjunctive quetiapine A review of the use of mood stabilizers and second generation antipsychotics often in combinations as well as the controversial role of adjunctive antidepressants in treating patients with rapid cycling bipolar disorders Description of important advances in evidence based adjunctive psychotherapeutic interventions in bipolar depression and bipolar maintenance treatment Comprehensive in scope yet readily accessible for application to clinical practice the book includes summary tables quick reference lists of clinical pearls and case studies to make its content more relevant Handbook of Diagnosis and Treatment of Bipolar Disorders is the ideal source for integrating recent research into everyday practice Psychiatry Review and Canadian Certification Exam Preparation Guide James Bourgeois,Usha Parthasarathi,Ana Hategan,2012 The first comprehensive psychiatry review textbook designed expressly for the Canadian market Psychiatry Review and Canadian Certification Exam Preparation Guide is the resource residents and psychiatrists need to master the qualifying examinations in psychiatry of the Royal College of Physicians and Surgeons of Canada These exams are required for certification both for graduating residents and most foreign trained psychiatrists seeking to practice in Canada This new volume based on The American Psychiatric Publishing Board Review Guide for Psychiatry has been carefully edited to include only material relevant to the Canadian exam References have been taken from both the U S and Canadian psychiatric literature and laboratory units medication names and doses and the language used have been edited to be consistent with Canadian psychiatry The volume takes the reader from the basic sciences comprising the foundation of psychiatry through the psychiatric interview and other diagnostic topics to syndrome specific chapters paralleling DSM IV TR and finally to current treatment options Rounding out the review is a 200 question practice exam that reflects the structure of the actual board examinations Although no substitute for quality medical and residency training Psychiatry Review and Canadian Certification Exam Preparation Guide will help the prospective exam taker ameliorate weaknesses and enhance strengths in preparation for a successful exam experience The Treatment of Bipolar Disorder André F. Carvalho,Eduard Vieta,2017-03-01 Bipolar disorder is a chronic and debilitating mental illness affecting a significant proportion of the world s population It is associated with significant impairments in health related

quality of life and psychosocial functioning and has significant illness related morbidity and heightened mortality rates due to medical comorbidities and suicide The management of this disorder requires a complex combination of pharmacological and psychosocial interventions which can be challenging for clinicians Written by world experts in the field of bipolar disorder The Treatment of Bipolar Disorder Integrative Clinical Strategies and Future Directions provides readers with a concise and comprehensive guide to the integrative management of bipolar disorder This resource contains 31 chapters on the various management choices available from both established and novel treatment areas such as psychoeducation psychotherapeutic interventions neuromodulatory approaches and novel therapeutic targets The complexity and diversity of the management choices available makes this a continually evolving field and necessitates forward thinking By both discussing the current management of bipolar disorder and the future developments available this resource provides all clinicians working with patients with bipolar disorder an up to date and reflective guide to its management and what the future holds Mental Disorders in Primary Care André F. Carvalho,Roger S. McIntyre,2017-02-09 Mental disorders are highly prevalent in the primary care setting yet are frequently misdiagnosed and often inappropriately treated The presence of unrecognized or misdiagnosed mental disorders is associated with increased service utilization and health care costs and can significantly impact the patient s quality of life and risk of suicide Written by experts from around the world Mental Disorders in Primary Care offers readers with a comprehensive and evidence based guide to the diagnosis and treatment of mental disorders in the primary care setting Containing 21 chapters on a variety of psychiatric disorders such as depressive disorders and substance use disorders and key topics for discussion such as drug interactions and collaborative care Mental Disorders in Primary Care is essential reading for clinicians treating patients in a primary care setting Fully up to date to reflect DSM 5 s taxonomy of psychiatric disorders this resource provides readers with a global and comprehensive guide to the diagnosis and treatment of patients with mental disorders **Mood Disorders** A. J. Rush,Brian E. Leonard,1997 This volume provides up to date scientifically based alternative treatment algorithms for various kinds of mood disorders It is one of the first publications to enunciate stepwise specified pharmacological management procedures recommended for major depressive bipolar and dysthymic disorders In addition it indicates the role for special forms of treatment for depression including light and electroconvulsive therapies based on published peer reviewed scientific literature and extensive in depth clinical experience It will be of particular interest to psychiatric residents internists family physicians general practitioners nurses medical students and other mental health professionals who are committed to a scientifically based approach to the management of patients with mood disorders *Research highlights from the first 100 accepted articles in Frontiers in Sleep* Stuart F. Quan,Colin Shapiro,Dalva Poyares,Judith Owens,Stephen Sheldon,Ambra Stefani,John Winkelman,Marie-Pierre St-Onge,Luis Buenaver,Patricia L. Haynes,2024-03-11 Frontiers in Sleep is committed to advancing developments in the field of sleep research by communicating scientific knowledge to researchers and the public alike to

enable the scientific breakthroughs of the future In particular the journal welcomes submissions that support and advance the UN s Sustainable Development Goals SDGs notably SDG 3 good health and well being A better understanding of the impact of deficient and poor quality sleep and sleep disorders on physical and mental health and performance is highly relevant with as many as 45% of the world s population currently affected Here we are pleased to introduce this Theme book entitled Research Highlights from the first 100 accepted articles in Frontiers in Sleep edited by our Chief Editors of Frontiers in Sleep This ebook aims to celebrate the milestone of the first 100 accepted articles in our journal by recognizing highly deserving authors and their outstanding research projects The work presented here spotlights the broad diversity of exciting research performed across the journal We hope you enjoy our selection of key articles We also thank all authors editors and reviewers of Frontiers in Sleep for their contributions to our journal and look forward to another exciting year in 2024

Clinician's Guide to ADHD Comorbidities in Children and Adolescents Joseph Sadek,2018-09-26 The diagnosis and management of ADHD co occurring with other disorders such as anxiety depression tics and substance use remain major challenges for clinicians treating all age groups This book guides clinicians through each step in the diagnosis and management of the comorbidity through essential case studies describing psychiatric disorders that frequently occur with child ADHD are well described in every case Each case includes a diagnosis section and management section and is accompanied by questions and answers concerning the most important aspects in diagnosing and managing of both ADHD and the comorbid disorders Drawn from actual clinical encounters the case studies also feature ample current and valid references *The Wiley-Blackwell Handbook of Mood Disorders* Mick Power,2013-08-19 The Wiley Blackwell Handbook of Mood Disorders 2 e reflects the important and fast changing advancements that have occurred in theory and practice in unipolar and bipolar mood disorders There is no other current reference that gathers all of these developments together in a single book Every chapter is updated to reflect the very latest developments in theory and practice in unipolar and bipolar mood disorders Includes additional chapters which cover marital and family therapy medical disorders and depression and cross cultural issues Contributions are from the world s leading authorities and include psychiatrists and clinical psychologists with experience in both research and in practice Focuses on innovations in science and clinical practice and considers new pharmacological treatments as well as psychological therapies The Science and Practice of Lithium Therapy Gin S. Malhi,Marc Masson, Frank Bellivier,2016-11-24 This book provides a clear and comprehensive guide to the clinical prescription of lithium that draws upon evidence based knowledge of its mechanisms of action The book is divided into two parts on the science of lithium and the practice of lithium therapy The former covers aspects such as the properties of the lithium ion pharmacokinetics and pharmacodynamics impact on neurotransmission and gene expression modulation The section on practice includes discussion of variability in response to lithium use of lithium in the treatment of bipolar disorders its value in suicide prevention administration during pregnancy and in the pediatric age group and side effects

Lithium is arguably the only true mood stabilizer and its multifaceted effects across many clinical domains have given rise to a resurgence of interest in recent years fuelled by both researchers and clinicians Nevertheless its use remains constrained by exaggerated concerns about potential side effects In reality lithium is a simple molecule that is relatively straightforward to administer and monitor and has potentially profound benefits at a fraction of the cost of contemporary agents This book dispels the many myths and concerns that surround its use and will be of interest for clinicians and researchers worldwide and those that are recipients of lithium therapy

The Maudsley Prescribing Guidelines in Psychiatry David M. Taylor, Thomas R. E. Barnes, Allan H. Young, 2021-05-06 The Maudsley Prescribing Guidelines in Psychiatry The new edition of the world renowned reference guide on the use of medications for patients presenting with mental health problems The Maudsley Prescribing Guidelines in Psychiatry is the essential evidence based handbook on the safe and effective prescribing of psychotropic agents Covering both common and complex prescribing situations encountered in day to day clinical practice this comprehensive resource provides expert guidance on drug choice minimum and maximum doses adverse effects switching medications prescribing for special patient groups and more Each clear and concise chapter includes an up to date reference list providing easy access to the evidence on which the guidance is based The fourteenth edition has been fully updated to incorporate the latest available research the most recent psychotropic drug introductions and all psychotropic drugs currently used in the UK USA Canada Australia New Zealand and Japan Several new sections cover topics such as deprescribing of major psychiatric drugs prescribing psychotropics at the end of life the treatment of agitated delirium the genetics of clozapine prescribing the use of weekly penfluridol and the treatment of psychotropic withdrawal Featuring contributions by an experienced team of psychiatrists and specialist pharmacists the new edition of The Maudsley Prescribing Guidelines in Psychiatry Provides succinct coverage of drug treatment of psychiatric conditions and formulating prescribing policy in mental health Covers a wide range of psychiatric conditions including schizophrenia bipolar disorder depression and anxiety borderline personality eating disorders and many others Provides advice on prescribing for children and adolescents older people pregnant women and other special patient groups Offers new sections on genetic prescribing long acting injectable formulations ketamine administration and uses and dopamine super sensitivity Includes referenced information on off label prescribing potential interactions with other substances such as alcohol tobacco and caffeine and treating patients with comorbid physical conditions Whether in the doctor's office in the clinic or on the ward The Maudsley Prescribing Guidelines in Psychiatry Fourteenth Edition is a must have for psychiatrists pharmacists neuropharmacologists clinical psychologists nurses and other healthcare professionals working in mental health as well as trainees and students in medicine pharmacy and nursing

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