

Depression and mechanisms of treatment



Major depression is a serious disorder of enormous sociological and clinical relevance. The discovery of antidepressant drugs in the 1950s led to the first biochemical hypothesis of depression, which suggested that an impairment in central monoaminergic function was the major lesion underlying the disorder. Basic research in all fields of neuroscience (including genetics) and the discovery of new antidepressant drugs have revolutionized our understanding of the mechanisms underlying depression and drug action. There is no doubt that the monoaminergic system is one of the cornerstones of these mechanisms, but multiple interactions with other brain systems and the regulation of central nervous system function must also be taken into account. In spite of all the progress achieved so far, we must be aware that many open questions remain to be resolved in the future.

Diagnostica Clin Neurosci, 2002;67:1-20

Depression is a potentially life-threatening disorder that affects hundreds of millions of people all over the world. It can occur at any age from childhood to late life and is a tremendous cost to society as this disorder causes severe distress and disruption of life

and, if left untreated, can be fatal. The psychopathological state involves a triad of symptoms with low or depressed mood, anhedonia, and low energy or fatigue. Other symptoms, such as sleep and psychomotor disturbances, feelings of guilt, low self-esteem, suicidal tendencies, as well as autonomic and gastrointestinal disturbances, are also often present. Depression is not a homogeneous disorder, but a complex phenomenon, which has many subtypes and probably more than one etiology. It includes a predisposition to episodic and often progressive mood disturbances, differences in symptomatology ranging from mild to severe symptoms with or without psychotic features, and interactions with other psychiatric and somatic disorders.

Classification, prevalence, and course of depression

At present, the essence of major depressive disorder is a clinical course that is characterized by one or more major depressive episodes without a history of manic, mixed, or hypomanic episodes, according to the criteria of the *Diagnostic and Statistical Manual of Mental Health, Fourth Edition (DSM-IV)*.¹ For an appropriate diagnosis, five of the following nine *DSM-IV* symptoms must be present continuously for a minimum 2-week period: (i) depressed mood; (ii) loss of interest or pleasure; (iii) significant weight or appetite alteration; (iv) insomnia or hypersomnia; (v) psychomotor agitation or retardation; (vi) fatigue or loss of energy; (vii) feelings of worthlessness; (viii) diminished ability to think or concentrate or indecisiveness; and (ix) suicidal ideation. Historically, there has been lengthy discussion on the basis and classification of depression. Two different concepts, Emil Kraepelin's formulation of depression as a disease and Sigmund Freud's view of depression as a

Keywords: depression; monoamine; serotonin; norpinephrine; treatment; genetics; neurobiology

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Depression Basic Mechanisms Diagnosis And Treatment

**Paul R. Carney, Richard B. Berry, James
D. Geyer**

Depression Basic Mechanisms Diagnosis And Treatment:

Depression--basic Mechanisms, Diagnosis, and Treatment A. John Rush,1986 *Dual Diagnosis* R. Stohler,Wulf Rössler,2005-01-01 Co morbidity of substance abuse and mental illness is among the most prevalent mental disorders worldwide and places an enormous burden on individuals and society This book begins with a historical overview of the conceptual issues behind dual diagnosis and presents recent developments in conceptualization and treatment Several reviews evaluate the latest etiological theories on the association of mental illness with substance use disorders One chapter deals with genetic and behavioral aspects by looking at twin studies The link between alcohol use and mental disorders the role of a pre existing attention deficit hyperactivity disorder on the development of substance use disorders the contribution of substance abuse to neurocognitive impairments as well as various assessment options are also discussed Finally the model of the modified therapeutic communities as an emerging modality for the provision of integrated treatment is presented This topical and outstanding collection of articles provides an excellent overview over the stimulating scientific research that is currently taking place in the field of dual diagnosis

Massachusetts General Hospital Handbook of General Hospital Psychiatry Theodore A. Stern,2010 Experts from the Massachusetts General Hospital widely respected as one of the world s premier psychiatric institutions provide practical advice on the diagnosis and treatment of psychiatric issues experienced by in hospital medically ill adults and children This compact resource reads like a handbook but delivers all the details you d expect from a textbook Find information quickly thanks to an improved chapter organization and get just the answers you need with concise yet complete coverage appropriate for psychiatrists and generalists alike

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Adult Psychopathology and Diagnosis Michel Hersen,Samuel M. Turner,1991-05-01 Revised to

reflect significant changes in the field this textbook provides a thorough overview of major diagnostic categories of adult psychiatric disorders using DSM nomenclature Since publication of the first edition in 1984 DSM III R has appeared DSM IV is anticipated data has been adduced in support of existing diagnostic categories and new semi structured and structured interview schedules have been developed Taking full account of these changes it contains 17 chapters 10 of them totally new and the remainder substantially revised Divided into three parts the text begins with an overview of models of psychiatric classification and practical use of DSM III R The second part offers a detailed clinical picture of specific syndromes covering crucial diagnostic criteria major theories of etiology and emphasis on assessment and measurement of behavior comprising the syndrome Closes with a discussion of special topics related to DSM III R **Clinical Sleep Disorders** Paul R.

Carney,Richard B. Berry,James D. Geyer,2012-01-19 This clinically focused practical reference is a complete guide to diagnosing and treating sleep disorders It is written by and for the wide variety of clinicians who encounter sleep disorders including neurologists pediatric neurologists pulmonologists pediatric pulmonologists neuropsychologists psychiatrists and sleep laboratory technicians Chapters follow a standardized template and include bulleted lists tables and clinical pearls New chapters in this edition cover dreams interpretation of the polysomnography report pediatric surgical management of obstructive sleep apnea and sleep scoring for both adults and pediatric patients Also included is an overview chapter on comprehensive sleep medicine Other highlights include updates on narcolepsy parasomnias and insomnia Human

Development and Homeostasis William E. Powles,1992 *Depression* Stephen Merson,1995 **Biological Markers of Depression** Marc Ansseau,Remy von Frenckell,Georges Franck,1991 Over the last decade a growing number of research groups have focussed their interest on potential neuroendocrine and neurophysiological markers of depression with very successful results The debate on the actual usefulness of these biological parameters in the everyday diagnosis and treatment of depressive patients continues however The 100th anniversary of the Department of Psychiatry at the University of Liege presented a timely opportunity to critically review the extensive literature now available on biological markers of depression The four most widely used biological tests of depression were individually reviewed in a specific symposium by renowned international experts dexamethasone suppression test DST sleep EEG clonidine test and endogenous evoked potentials The philosophy of each of those symposia was threefold first to critically assess the actual usefulness of each of those types of parameters for diagnostic confirmation and treatment prediction in depressive disorders second to discuss the pathophysiological mechanisms responsible for such disturbances and third to discuss new prospects in the field Finally another symposium reviewed the most promising antidepressants currently under development This book presents the findings of the symposium held in Liege with a short summary of the contents as outlined hereunder

Neuropsychopharmacology Collegium Internationale Neuro-psychopharmacologicum. Congress,W.E. Jr. Bunney,1990-09-10 *Health and Behavior* F. Moises Gavia,Jose D. Arana,1987 Bulletin of the Menninger Clinic

Menninger Clinic,1987 *Brain Electrical Potentials and Psychopathology* Charles Shagass,Richard C. Josiassen,Richard A. Roemer,1986 The papers presented in this volume provide the latest information on advances in clinical neurophysiology and their applications for better diagnosis and treatment of psychiatric disorders This work contains two tutorial chapters on two methodological areas that have become pivotal for electrophysiological investigations of psychopathology The first tutorial chapter deals with the strategic principles underlying behavioural paradigms within which event related potentials ERPs are recorded in psychiatric research The second tutorial chapter discusses the principles for spatial analysis of EEG and evoked potential EP data Additional topics addressed include the study of schizophrenia and other major depressive disorders brain mapping pharmacological effects on the EEG long term effects of the administration of beta blockers and an overview of fifty years of EEG research This comprehensive compilation is derived from the scientific presentations of the VII International Symposium on Clinical Neurophysiological Aspects of Psychiatric Conditions Ambulatory EEG Monitoring John S. Ebersole,1989 Mental Health-psychiatric Nursing Cornelia Kelly Beck,Ruth Parmelee Rawlins,Sophronia R. Williams,1988 Men of Achievement ,1992 **Challenging Family Therapy Situations** Joan D. Atwood,1997 **The Role of Dysphoria and Depressive Experiences in the Selection of and Reaction to Television Programs** Greg Alan Boiarsky,1993

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Depression Basic Mechanisms Diagnosis And Treatment**

In a global inundated with displays and the cacophony of quick communication, the profound power and mental resonance of verbal beauty often disappear in to obscurity, eclipsed by the continuous assault of sound and distractions. Yet, set within the musical pages of **Depression Basic Mechanisms Diagnosis And Treatment**, a charming work of fictional elegance that impulses with natural emotions, lies an unforgettable trip waiting to be embarked upon. Written with a virtuoso wordsmith, that mesmerizing opus instructions viewers on an emotional odyssey, softly exposing the latent possible and profound impact embedded within the complicated internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is key themes, dissect their charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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