

Books

August 27, 2015

**JULIO MOIZESZOWICZ: PSICOFARMACOLOGIA
PSICODINAMICA. ASPECTOS NEUROQUIMICOS y
PSICOLOGICOS**

*(Psychodynamic Psychopharmacology. Neurochemical and
Psychological Aspects)*

4th edition

Buenos Aires: Editorial Paidos; 1998 (1248 pages)

Reviewed by Carlos Morra

Information on Contents: The fourth edition of Psychodynamic Psychopharmacology is a text of 19 chapters presented in three sections. Section 1 is preceded by a Preface of the fourth and the Prefaces of the prior editions; and Section 3 is followed by an Appendix on Neuroimaging and Indexes (drug and subject). In this review, the full table of contents of the 4th edition is presented with the permission of the author.

Preface to fourth edition

Preface to previous editions

SECTION 1: GENERAL PSYCHOPHARMACOLOGY

Chapter 1: Introduction to Psychopharmacology and Neurobiology

Basic concepts of Psychopharmacologic Treatment

Effect of non-specific factors on treatment

Effect of specific factors on treatment

Basic concepts of Psychopharmacology and of Molecular Biology

Mechanism of action of psychotropic drugs

Cytoskeleton.

Membranes

Receptors

Hetero-oligomeric or ion channel linked

Monomeric or metabotropic (protein-coupled)

Cytoplasmic receptor

Enzymatic receptors

Signal Pathway

Mechanism of action according to site of action in the synapse

Neurotransmitters

Neuromodulators

Immunopeptides

Apoptosis

Psychoneurobiology of therapeutic action and side effects

Efficacy of psychotropic drugs (genetic expression)

Oncogenic theory (Post-synaptic cascade)

Types of psychopharmacological response (genetic point of view)

Secondary, adverse or side effects

Assessment of efficacy (assessment scales for antidepressant effect)

Clinical psychoneurobiology of anxiety disorders

Clinical psychoneurobiology of impulsive-violent behavior (cholesterol levels)

Psychoneurobiology: Glossary of terms and abbreviations

References

Chapter 2: Psychoimmunoendocrinology, psychoneuroimmuno-oncology

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Limbic- hypothalamic–pituitary–adrenal axis

Corticotropin-releasing hormone (CRH)

Hypothalamic–pituitary-thyroid axis

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Hypothalamic–pituitary-gonadal axis

Neuroendocrine effects of psychotropic drugs

Psychoneuroimmuno-oncology

The oncologic patient

References

Chapter 3: Antipsychotics

Schizophrenia

Therapeutic actions of antipsychotics

Pharmacokinetics and plasma concentration

Mechanism of action

Classification of antipsychotic drugs

Clinical classification

Typical neuroleptics

Atypical neuroleptics

Drugs in clinical research

Adjuvants

Classification based on the chemical structure

Phenothiazines

Butyrophenones

Others

Treatment characteristics

Depression in schizophrenia

Treatment resistant schizophrenia

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Neuroanatomical model of fear and anxiety

Neuronal model of anxiety and fear

The role of previous experiences

Conditioning fear

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Sensitization

Neurotransmitters related to anxiety and fear

Genetic predisposition in anxiety disorder

Classification of anxiolytics

Benzodiazepines

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Pharmacokinetics

Side effects

High potency drugs

Alprazolam

Clonazepam

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Imidazopyridines

Azapirones

Beta-carbolines

Characteristics of treatment with benzodiazepines

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NDRI

SNRI

NARI

Combined actions

Non selective and specific (venlafaxine)

Non selective and non-specific

SARI - nefazodone

NASSA - mirtazapine

Non-conventional serotonergic

tianeptine

Side-effects of antidepressants

Treatment of side-effects

Alternative pharmacological treatments

Somatic, non-pharmacological treatments

Characteristics of treatment

Management

Treatment resistant depression

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Treatment of bipolar disorder

Lithium carbonate

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Chemical structure

Pharmacokinetics
Mechanisms of action
Side effects
Modes of Treatment
 Acute episode
 Maintenance
 Preventive (prophylactic)
Indications
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References

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Oxcarbazepine
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Drug (generic name)

Drug (trade names)

Subject

Reviewer's Comment: From the 3rd edition, published in 1994 (and reprinted in 1996) to the 4th edition, published in 1998 (and reprinted in 2000), the size of the book further increased from 830 to 1248 pages and the number of chapters from 15 to 19. It also fully reverted to a single author text. The enlarged material covered in the fourth edition is divided into three Sections, from which the 1st, General Psychopharmacology and the 2nd, each include seven chapters, and the 3rd, Special Psychopharmacology, includes five. From the four added chapters, one addresses psychoimmunoendocrinology and psychoneuroimmunology; another, covers the treatment of borderline personality; a third, reviews the psychopharmacology of women's sexual cycle disorders; and a fourth, is dedicated to epidemiologic and

molecular principles of genetic mental disorders.

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