

Books

July 30, 2015

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

*(Psychodynamic Psychopharmacology. Neurochemical and
Psychological Aspects)*

Buenos Aires: Editorial Paidos

3rd edition 1994 (833 pages) (Reprinted 1996)

Reviewed by Carlos Morra

Information on Content: The third edition of Psychodynamic Psychopharmacology is a text of 15 chapters, of which with all but one written by the author. In this review the full table of contents of which, the book is presented in English translation with the permission of the author.

1. General principles of treatment with psychotropic drugs

Effect of non-specific factors on treatment

Effect of specific factors on treatment

Intercellular transduction

Neurotransmitters

Catecholamines

Acetylcholine,

Serotonin

Histamine

GABA

Glutamate

Aspartate

Taurine

Purines.

Neuromodulators

Neuropeptides

Limbic hypothalamic peptides (ACTH, MSH, beta and gamma-LPH, beta-endorphins, methionine-enkephaline, methionine-leucine, opioid peptides)

Endocrine hypothalamic peptides

TRH

LHRH

Somatostatine

MIF

PRF-PIF

Neuroplasticity

Oncogenic Theory (Post-synaptic cascade)

Secondary, adverse or side effects

Legal aspects of the Informed consent

Evaluation of the efficacy of psychotropic drugs

Bibliography

2. *Antipsychotic drugs*

Schizophrenia (clinical features; structural bass; neurophysiology; neurochemistry)

Therapeutic effect and action on:

CNS

Endocrine system

Kidney

Vegetative nervous system

Pharmacokinetics (plasma concentration)

Mechanism of action

Classification

Clinical

Typical neuroleptics

- Atypical neuroleptics
- Drugs in clinical investigation
- Adjuvants
- Chemical structure
- Side effects
 - Neurological
 - Psychopathological
 - Neuro-vegetative
 - Metabolic and endocrine
 - Cardiovascular
 - Allergic
 - Withdrawal
- Drug-drug interactions
- Treatment characteristics
 - Relationship with the Schizophrenic patient's family
 - Determination of dose and duration of treatment
 - Acute phase
 - Sub-acute phase
 - Chronic phase
- Treatment resistant schizophrenia
- Bibliography

3. *Anxiolytic drugs*

Neurobiology and etiology of anxiety

Benzodiazepines

- Pharmacology
- Mechanism of action
- Pharmacokinetics
- Adverse effects
- Drug -drug interactions

High potency benzodiazepines

- Triazolobenzodiazepines
- Alprazolam
- Clonazepam

Non-benzodiazepines

- Imidazopyridines
- Azapirones
- Serenics or anti-aggressive agents (eltoprazine)

Treatment with benzodiazepines

Bibliography

4. *Hypnotic drugs*

Psychopharmacology of sleep disorders

Neurophysiology of Sleep

Neurotransmission and sleep

Classification of hypnotics

- Benzodiazepines

- Non-benzodiazepine

- Cyclopyrrolones

- Imidazopyridines

Classification of sleep disorders

Treatment of sleep disorders

Specific measures for sleep facilitation

Bibliography

5. *Antidepressant drugs*

Introduction

Depression

Etiology

Classification

Biological theories

- Amines

- Noradrenalin and depression

- Noradrenergic deregulation

- Serotonin and depression

- Dopamine and depression

- Acetylcholine and depression

- Neurobiological deregulation by stress

Mechanism of action

- Presynaptic

- Receptors

- Sensitization

- Other

Classification of antidepressants

- Based on chemical structure

- Based on mechanisms of action

- Based on clinical effects

Non-MAOI's Antidepressants

- Tricyclic antidepressants

- Non-cholinergic sedatives

- Non-cholinergic activators

Clinical and pharmacological actions

Advantages and disadvantages of

Tricyclic antidepressants

Non-cholinergic sedatives

Non-cholinergic activators

SSRIs

Dopaminergic drugs

MAOI antidepressants

History

Chemical structure

Classification

Pharmacokinetics

Side effects

Overdose (lethality)

Indications

Atypical depression

Sub-affective dysthymia

Advantages and disadvantages

Side effects

Alternative pharmacological treatments

Treatment with antidepressants

Drug-drug interactions

The Patients that don't respond to treatment. Treatment resistant depression.

Bibliography

6. *Anti-manic drugs*

I-Lithium

History

Li salts

Pharmacokinetics

Mechanisms of action

Side effects

Modes of treatment

Treatment of the acute episode

Maintenance treatment

Preventive (prophylactic) treatment

Indications

Drug-drug interactions

Bibliography

II-Anticonvulsants

Carbamazepine

Chemical structure and pharmacokinetics

Mechanisms of action

Indications

Dosing

Side effects

Drug-drug interactions

Combined with lithium

Clonazepam

Valproic acid, valpromide

Oxcarbazepine

Diphenylhydantoin

III Calcium Channel Blockers

IV MAO-A inhibitors

V Aldosterone Antagonists

Bibliography

7. Psychopharmacology in Children and Adolescent

Introduction

Pharmacological treatment

General principles

Pharmacodynamics and pharmacokinetics

Stimulants

Antidepressants

Antipsychotics

Haloperidol

Lithium carbonate

Anxiolytics

Antihistaminics

Anticonvulsants

Other drugs

Clonidine

Beta blockers

Fenfluramine

Opioid antagonists

Psychopathology and psychiatry in children and adolescents

Diagnoses

Developmental disorders

Mental retardations

Autism

Asperger's syndrome

Disruptive behavior disorder

Attention deficit hyperactivity disorder

Anxiety

Obsessive-compulsive disorder

Mood disorders

Schizophrenia

Tics

Sleep disorders

Enuresis

Lead intoxication

Bibliography

8. *Geriatric psychopharmacology*

General principles

History

Factors with an effect on treatment outcome

Drug - drug interactions

Pharmacokinetic changes in involution

Treatment of anxiety and insomnia

Treatment of depression

Pseudo-dementia

Treatment of psychosis

Use of new antipsychotics

Dementia

Histopathology

Biomarkers of Alzheimer's disease

Psychopharmacology

Symptomatic treatment

Prevention of neuronal death

Bibliography

9. *Pharmacology of Parkinson's Disease by Dr. Oscar S. Gershanik*

Introduction

Physiopathology

Etiology

Neurochemical basis of treatment. Dopamine receptors

Pharmacological treatment

Initiation of treatment

Antiparkinson's drugs

Dopamine agonists

MAO-B inhibitors

Cholinergic blockers

- Amantadine
- Combined treatment drugs
- Drug holidays
- Psychiatric Disorders in patients with Parkinson's Disease
 - Primary disorders
 - Secondary disorders
- Bibliography

10. *Treatment of panic disorder*

- Introduction
 - Cognitive
 - Behavioral
 - Neurochemical
- Treatment
- Bibliography

11. *Treatment of obsessive-compulsive disorder*

- Introduction
- Neurobiological aspects of OCD
 - Serotonergic Hypothesis
 - Neuroanatomical model
 - Other hypothesis
- Treatment
- Treatment resistant
- Bibliography

12. *Treatment of bulimia nervosa*

- General principles
- Neurochemistry
- Endocrinology
- Structural changes (brain)
- Pharmacological treatment
- Bibliography

13. *Treatment of psychiatric emergencies*

- Acute psychotic episodes (Psychomotor agitation)
- Anxiety attacks or crises
- Somatization disorders (conversion disorders)
- Suicidal behavior, risk and attempts
- Bibliography

14. *Pharmacological treatment in "day hospital"*

Introduction

Treatment

 Cognitive/psychodynamic

 Social

 Recreational

 Expressive-corporal

 Evaluation

Presentation of a case

Bibliography

15. *Pharmacological treatment of addictions*

Introduction

Criteria for dependence

Etiological and clinical factors

Opioids

 Opium

 Morphine

 Heroin

 Codeine

 Dextropropoxyphene

 Dextromethorphan

CNS depressants. Benzodiazepines

CNS stimulants

 Xanthines

 Ecstasy

 Cocaine

 Crack

Amphetamines

Hallucinogens

 LSD 25

Cannabinoids. Marijuana

Inhalants (Volatile substances)

Psychodynamic profile of addicts

Psychiatric, psychodynamic and laboratory correlates of addiction

Bibliography.

Appendix.

 Clinical assessment

 Psychophysical examination

 Drug consumption

Aggressiveness
Vigilance
Opioids
CNS depressants
CNS stimulants
Hallucinogens
Cannabinoids

Indexes

Drug index
 Generic names
 Trade names
Subject index

Reviewer's Comment: From the second (1988) to the third (1994) edition the size of the book increased from 670 to 830 pages and the number of chapters from 14 to 15. The book was also reverted from a multi-authored to a single authored text with all but one chapter, the chapter on the Pharmacology of Parkinson's Disease, written by Moizeszowicz. From the 15 chapters, eight (General principles of treatment with psychotropic drugs, Antipsychotic drugs, Hypnotic drugs, Antidepressant drugs, Drugs for the treatment of mania, Pediatric psychopharmacology, Geriatric psychopharmacology and Pharmacology of Parkinson's Disease) are updated versions of the corresponding chapters in the 2nd edition. Two chapters, the chapter on Tranquilizers and the chapter on Anxiolytic benzodiazepines in the 2nd edition were replaced by one chapter, a chapter with the title, Anxiolytic drugs in the 3rd; and the chapter on the Psychopharmacology of alcoholism in the 2nd edition was replaced by a chapter on Pharmacological treatments of addictions in the 3rd. There are no separate chapters in the 3rd edition on Stimulants, on the Psychopharmacology of epilepsy in adults, and on the Psychopharmacology of childhood epilepsy, but there are five new chapters in the 3rd edition: one on the Treatment of panic disorder, another, on the Treatment of obsessive-compulsive disorder, a third on the Treatment of bulimia nervosa, a fourth on Treatment of psychiatric emergencies, and the fifth on Pharmacological treatments in "day hospital".

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